

Comparative Effectiveness Review

Number 275

Healthcare Delivery of Clinical Preventive Services for People With Disabilities

Prepared for:

Agency for Healthcare Research and Quality
U.S. Department of Health and Human Services
5600 Fishers Lane
Rockville, MD 20857
www.ahrq.gov

Contract No. 75Q80120D00006

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AHRQ Publication No. 24-EHC032

September 2024

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None of the investigators have any affiliations or financial involvement that conflicts with the material presented in this report.

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AHRQ appreciates appropriate acknowledgment and citation of its work.

This work was based on an evidence report, Healthcare Delivery of Clinical Preventive Services for People With Disabilities, by the Evidence-based Practice Center Program at the Agency for Healthcare Research and Quality (AHRQ).

Suggested citation: Buckley DI, Nygren P, Blackie K, Dana T, Hsu F, Holmes R, Horner-Johnson W, Nicolaidis C, Chou R. Healthcare Delivery of Clinical Preventive Services for People With Disabilities. Comparative Effectiveness Review No. 275. (Prepared by the Pacific Northwest Evidence-based Practice Center under Contract No. 75Q80120D00006.) AHRQ Publication No. 24-EHC032. Rockville, MD: Agency for Healthcare Research and Quality;

September 2024. DOI: <https://doi.org/10.23970/AHRQEPCCER275>. Posted final reports are located on the Effective Healthcare Program [search page](#).

Preface

The Agency for Healthcare Research and Quality (AHRQ), through its Evidence-based Practice Centers (EPCs), sponsors the development of systematic reviews to assist public- and private-sector organizations in their efforts to improve the quality of healthcare in the United States. These reviews provide comprehensive, science-based information on common, costly medical conditions, and new healthcare technologies and strategies.

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If you have comments on this systematic review, they may be sent by mail to the Task Order Officer named below at: Agency for Healthcare Research and Quality, 5600 Fishers Lane, Rockville, MD 20857, or by email to epc@ahrq.hhs.gov.

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Acknowledgments

The authors gratefully acknowledge the following individuals for their contributions to this project: Leah Williams, B.S., Miranda Pappas, M.A., Cindy Davis-O'Reilly, B.S., Tamara Cheney, M.D. and Tosha Zaback, M.P.H., all at Oregon Health and Science University.

Key Informants

In designing the study questions, the EPC consulted several Key Informants who represent the end-users of research. The EPC sought the Key Informant input on the priority areas for research and synthesis. Key Informants are not involved in the analysis of the evidence or the writing of the report. Therefore, in the end, study questions, design, methodological approaches, and/or conclusions do not necessarily represent the views of individual Key Informants.

Key Informants must disclose any financial conflicts of interest greater than \$5,000 and any other relevant business or professional conflicts of interest. Because of their role as end-users, individuals with potential conflicts may be retained. The TOO and the EPC work to balance, manage, or mitigate any conflicts of interest.

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In designing the study questions and methodology at the outset of this report, the EPC consulted several technical and content experts. Broad expertise and perspectives were sought. Divergent and conflicting opinions are common and perceived as healthy scientific discourse that results in a thoughtful, relevant systematic review. Therefore, in the end, study questions, design, methodologic approaches, and/or conclusions do not necessarily represent the views of individual technical and content experts.

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Prior to publication of the final evidence report, EPCs sought input from independent Peer Reviewers without financial conflicts of interest. However, the conclusions and synthesis of the scientific literature presented in this report do not necessarily represent the views of individual reviewers. AHRQ may also seek comments from other Federal agencies when appropriate.

Peer Reviewers must disclose any financial conflicts of interest greater than \$5,000 and any other relevant business or professional conflicts of interest. Because of their unique clinical or content expertise, individuals with potential nonfinancial conflicts may be retained. The TOO and the EPC work to balance, manage, or mitigate any potential nonfinancial conflicts of interest identified.

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Healthcare Delivery of Clinical Preventive Services for People With Disabilities

Structured Abstract

Objectives. (1) Summarize reported barriers and facilitators to the receipt of clinical preventive services among people with disabilities; (2) evaluate the literature on the effectiveness of interventions to improve receipt of preventive services among people with disabilities.

Data sources. Electronic databases (Ovid®, MEDLINE®, PsycINFO®, Embase®, the Cochrane Central Register of Controlled Trials, and EBSCO CINAHL Plus) from 1990 through April 23, 2024.

Review methods. Following the Agency for Healthcare Research and Quality Methods Guide (<https://effectivehealthcare.ahrq.gov/products/collections/cer-methods-guide>), the methods and protocol were determined a priori. We used independent dual review to determine inclusion of studies related to 20 preventive services with Grade A or Grade B recommendations by the U.S. Preventive Services Task Force. We assessed general quality (studies of barriers/facilitators) or risk of bias (effectiveness studies) using study design-specific criteria. Barriers/facilitators were classified into seven general categories (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility, accessible communication, and policy-level). Barriers/facilitators and interventions were described and presented for each preventive service according to general types of disability (physical, cognitive/intellectual/developmental, sensory, serious psychiatric/mental illness). Due to high methodological/clinical heterogeneity of studies and limited available data, we did not assign strength of evidence ratings or conduct meta-analyses.

Results. Of 11,472 references, we included 68 studies—54 on barriers/facilitators and 16 on the effectiveness of interventions, with 2 studies included for both barriers/facilitators and interventions. Evidence was lacking for most preventive services and generally limited to one or two types of disability for any given preventive service. Studies on barriers/facilitators pertained to 10 preventive services; studies on the effectiveness of interventions pertained to 8 preventive services. Most evidence was for two preventive services—breast cancer screening and cervical cancer screening. For breast and cervical cancer screening, studies reported on most categories of barriers/facilitators and included all types of disability; for other preventive services, fewer studies reported fewer categories of barriers/facilitators and fewer types of disability. Limited evidence from three trials found various educational and health advocacy interventions to be associated with increased rates of breast and cervical cancer screening among women with physical disabilities, cognitive/intellectual/developmental disabilities, and serious mental illness.

Conclusions. We found limited evidence on barriers and facilitators to receipt of most preventive services among people with disabilities, and especially limited evidence on interventions to improve receipt of those services. Most studies were related to breast and cervical cancer screening. The lack of studies for most preventive services and types of disability underscores the need for research to address substantial gaps in the evidence.

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Executive Summary

Main Points

- Studies on barriers and/or facilitators to the receipt of clinical preventive services among people with disabilities are lacking for most preventive services and most types of disability.
- Most studies pertained to receipt of breast and/or cervical cancer screening.
- For breast and cervical cancer screening, studies reported most categories of barriers/facilitators and included all types of disability; for other preventive services, fewer studies reported fewer categories of barriers/facilitators and fewer types of disability.
- Evidence on interventions to improve receipt of preventive services among people with disabilities is especially limited, with most studies also related to breast and/or cervical cancer screening.
- Limited evidence from three trials found various educational and health advocacy interventions to be associated with increased rates of breast and cervical cancer screening among people with physical disabilities, cognitive/intellectual/ developmental disabilities, and serious mental illness.
- Evidence on interventions to improve receipt of other preventive services is more limited, with no clear effect of interventions for any preventive service.

Background and Purpose

Long-standing disparities in the receipt of various clinical preventive services persist among people with disabilities. The purpose of this systematic review was: (1) to document and summarize reported barriers and facilitators to the receipt of selected preventive services among people with disabilities, and (2) to identify and synthesize the literature on the effectiveness of interventions to improve receipt of preventive services among people with disabilities.

Methods

The review methods and protocol were developed consistent with the AHRQ Methods Guide for Effectiveness and Comparative Effectiveness Reviews (available at: <https://effectivehealthcare.ahrq.gov/products/collections/cer-methods-guide>). Abstracts and full-text articles from literature searches (1990 to April 23, 2024) were independently dual-reviewed to determine inclusion of studies related to 20 preventive services with Grade A or Grade B recommendations by the U.S. Preventive Services Task Force. Barriers and facilitators were classified into seven general categories (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility, accessible communication, and policy-level). Barriers/facilitators and interventions were described and presented for each preventive service according to general types of disability (physical, cognitive/intellectual/developmental, sensory, and serious psychiatric/mental illness). Due to high methodological/clinical heterogeneity of the studies and limited available data, we did not assign strength of evidence ratings or conduct meta-analyses.

Results

Of 11,472 references, we included 68 studies – 54 reported on barriers/facilitators (Key Question 1) and 16 reported on the effectiveness of interventions (Key Question 2) with 2 studies included for both barriers/facilitators and interventions. Evidence was lacking for most preventive services and generally limited to one or two types of disability for any given preventive service.

Key Question 1. What are the primary barriers and facilitators to the receipt of clinical preventive services among people with disabilities?

Most studies were on the receipt breast cancer screening (69%) and/or cervical cancer screening (35%), and addressed barriers/facilitators for people with cognitive/intellectual/developmental disabilities (47%) or physical disabilities (36%). Appendix Table H-1 presents included studies according to preventive service(s) and type(s) of disability addressed. Table H-2 presents the more commonly reported individual barriers and facilitators and related preventive services.

For breast cancer screening, most categories of barriers/facilitators were reported for all types of disability. Among people with physical disabilities, most barriers were person-level (e.g., difficulty standing still), provider-level (e.g., negative attitude/ableism) and healthcare system-level (e.g., difficulty booking/attending appointments). Most facilitators were provider-level (e.g., knowledge about people with disabilities). Among people with cognitive/intellectual/developmental disabilities, most barriers were environment-level (e.g., transportation), person-level, and provider-level. Most facilitators were person-level (e.g., feeling in control), provider-level (e.g., allowing preparatory visits), healthcare system-level (e.g., extra time for appointments).

For cervical cancer screening among people with physical disabilities, most barriers were person-level (e.g., feeling dependent on others) and provider-level (e.g., not listening to the person with disabilities). Most facilitators were provider-level (e.g., assistance with dressing). Among people with cognitive/intellectual/developmental disabilities, most barriers were person-level (e.g., not understanding the screening process) and provider-level (e.g., misconceptions about sexual activity and need for screening). Most facilitators were provider-level (e.g., adjusting procedures to accommodate the patient).

For other preventive services, fewer studies reported fewer categories of barriers/facilitators and fewer types of disability. (See Appendix Table H-1 for details).

Key Question 2. What is the effectiveness of interventions to improve the receipt of clinical preventive services among people with disabilities?

Most studies were on the receipt of breast cancer screening (50%) and/or cervical cancer screening (56%), and pertained to people with cognitive/intellectual/developmental disabilities (50%), sensory disabilities (25%), or physical disabilities (19%).

Randomized controlled trials on breast and/or cancer screening generally found various educational and health advocacy interventions to be associated with increased receipt of screening. This included an educational intervention to improve breast and cervical cancer

screening among women with physical disabilities, an educational/self-advocacy intervention targeting general preventive care for people with cognitive/intellectual/developmental disabilities, and an educational/social skills training intervention targeting general preventive care for people with serious mental illness. One RCT of an educational intervention to improve breast cancer screening among women with a sensory disability (deafness) found no difference; another randomized controlled trial of an educational intervention to increase cervical cancer screening rates found a large but imprecise effect.

Evidence on interventions to improve receipt of other preventive services was limited, with no clear effects, as described in the full report.

Limitations

The most notable limitation of the body of evidence was the lack of studies for most preventive services and types of disability. Because of limited available data and high methodological/clinical heterogeneity of the studies, we did not assign strength of evidence ratings or conduct meta-analyses.

Implications and Conclusions

The findings of this systematic review do not provide clear or sufficient evidence to support any specific clinical or policy decisions regarding the effectiveness of interventions to improve the receipt of clinical preventive services for people with disabilities. We found limited evidence on barriers and facilitators to the receipt of most clinical preventive services among people with disabilities, and especially limited evidence on interventions to improve the receipt of those preventive services. Most evidence was for two preventive services – breast cancer screening and cervical cancer screening. The lack of studies for most preventive services and types of disability underscores the need for research to address the substantial gaps in the evidence.

1. Background and Purpose

1.1 Background

People with disabilities^a are a substantial portion of the population. Data from the U.S. Census Bureau indicates that 30.3 percent of the adult civilian population of the United States (72.7 million people) had some form of disability in 2014.¹ Based on estimates from the 2019 Behavioral Risk Factor Surveillance System (BRFSS), 26.8 percent of adults in the United States had a disability, and 11.7 percent had more than one type of disability.² The prevalence of specific types of disability reported in the 2019 BRFSS was 13.3 percent for mobility; 12.1 percent for cognitive or mental; 6.1 percent for hearing; 5.2 percent for vision; 7.2 percent for independent living; and 3.9 percent for self-care disabilities.² People with disabilities are more likely than those without disabilities to be unemployed, have lower earnings, live in poverty, have lower levels of educational attainment, and be without health insurance.^{1,3,4} Data from the 2020 BRFSS indicate people with disabilities are also more likely to have depression (42% vs. 12%), diabetes (16% vs. 7%), obesity (40% vs. 29%), heart disease (10% vs. 4%), and to smoke (24% vs. 12%).⁴

Although it has long been recognized that people with disabilities have at least the same need for health maintenance and preventive services as the general population,⁵⁻⁸ long-standing disparities in the receipt of various clinical preventive services persist among people with disabilities. Cancer screening is the most commonly studied general category of clinical preventive services in people with disabilities, especially screening for breast, cervical, and colorectal cancers.⁹⁻¹² Studies have been mostly consistent in finding that people with various disabilities are less likely to receive indicated screening for breast and cervical cancer.¹³⁻¹⁷ For example, both the 2020 BRFSS and the 2021 National Health Interview Survey (NHIS) found women with any disability less likely to have received a mammogram in the past 2 years compared with women with no disability (BRFSS: 73.5% vs. 80.4%, respectively; NHIS: 65.3% vs. 77.9%, respectively) and less likely to be up-to-date on cervical cancer screening (BRFSS: 77.9% vs. 84.2%, respectively; NHIS: 62.4% vs. 74.5%, respectively).^{4,18} Studies on disparities in colorectal cancer screening have been mixed; some finding people with disabilities to be slightly more likely to be up-to-date compared with people without a disability,^{4,18} and others finding people with disabilities less likely to be up-to-date.^{19,20} Evidence on disparities in the receipt of clinical preventive services other than the afore-mentioned three cancer screenings is relatively lacking or absent. Although much less well studied, other clinical preventive services for which evidence generally shows a disparity in care among people with disabilities include screening for hypercholesterolemia, body mass index, hypertension, tobacco/nicotine use, alcohol misuse, opioid abuse, and risk for sexually transmitted infections; nutrition and exercise counselling; and receipt of various vaccinations.^{12,21-28}

Various barriers to the receipt of clinical preventive services for people with disabilities have been identified, including physical environmental barriers; attitudes, behaviors, and/or lack of knowledge on the part of healthcare providers; communication failures between healthcare professionals and patients; transportation barriers; and financial barriers.^{9,10,29} While many of

^a We recognize that individuals or groups with different disabilities have preferences about the terms that are used to refer to them. This may include choices to be referred to in person-first language or identity-first language. We use a mix of person-first and identity-first language in this report. We use the term “D/deaf” to encompass people who identify as culturally Deaf and part of the Deaf community and those who do not. Resource: <https://apastyle.apa.org/style-grammar-guidelines/bias-free-language/disability>; <https://www.apa.org/about/apa/equity-diversity-inclusion/language-guidelines> (APA, 2020).

1. Background and Purpose

these barriers may be common to different types of disability (e.g., physical/mobility, cognitive/intellectual/developmental, visual, hearing), studies have assessed barriers related to particular types of disability and/or particular types of preventive service.^{11,30-37} In addition, studies have found disparities in the receipt of preventive services to vary according to type and extent of disability.^{22,38,39} This suggests that the receipt of different clinical preventive services by people with different types of disability may be influenced differentially by particular barriers – a view that is consistent with the integrative model of human functioning and disability represented by the International Classification of Functioning, Disability, and Health (ICF)^b of the World Health Organization^{40,41} and related integrative models.⁴²

A challenge for policymakers and healthcare organizations is how to best address these disparities to facilitate uptake of recommended clinical preventive services among people with disabilities. The challenge arises from and is complicated by many factors, including the various definitions and ways of measuring disability;⁴³⁻⁴⁷ the diverse nature of different types of disability (e.g., physical, sensory, cognitive/intellectual/developmental), with each presenting different types of potential challenges for the receipt of preventive services; the variety of different preventive services, each with different functional requirements and potential barriers for participation; and the complex interactions of an individual's functional abilities with various environmental factors (physical, social, attitudinal).⁴⁰

1.2 Purpose and Scope of this Review

The purpose of this Systematic Review is (1) to document and summarize identified primary barriers and facilitators to the receipt of clinical preventive services among people with disabilities, and (2) to identify and synthesize the literature on the effectiveness of interventions to improve the receipt of clinical preventive services among people with disabilities. The review is intended for the target audiences of policymakers, healthcare organizations, people with disabilities and their advocates, and researchers, to help guide and inform efforts to address disparities in the receipt of clinical preventive services among people with disabilities. Agency for Healthcare Research and Quality (AHRQ) supported a follow-on stakeholder panel, which discussed the findings of this review and developed recommendations for future research. AHRQ will be working collaboratively with other Federal agencies, particularly in partnership with the Federal government's primary disability research organization, the National Institute on Disability, Independent Living, and Rehabilitation Research, to accomplish these goals. AHRQ received Congressionally directed funding for this systematic review and the stakeholder meeting.

^b The ICF distinguishes body function from participation in life situations and views disability not as intrinsic to an individual, but as an outcome of the interaction between an individual's health conditions and environmental factors. Accordingly, a person would have a disability with regard to a particular preventive service if the interaction of their functional ability and environmental factors restricted their participation in that service. Environmental factors may be physical (e.g., accessibility of facilities), social (e.g., communication, health system policies or procedures) or attitudinal (e.g., healthcare provider knowledge or awareness). The ICF model also includes personal factors that can affect participation (e.g., knowledge and self-efficacy).

2. Methods Summary

This Systematic Review follows methods of the *Agency for Healthcare Research and Quality (AHRQ) Methods Guide for Effectiveness and Comparative Effectiveness Reviews* (hereafter the “AHRQ Methods Guide”).⁴⁸ Methods were determined a priori and a protocol was developed through a standard AHRQ process that included collaboration with Federal partners, Key Informants, and Technical Expert Panel. The protocol was registered on the PROSPERO systematic reviews registry (CRD42023479105) and published on AHRQ’s website: https://effectivehealthcare.ahrq.gov/products/people-with-disabilities/protocol#field_report_title_7

2.1 Key Questions

The following questions were included with a scope of work issued by AHRQ and revised with input from Federal partners, Key Informants, and Technical Expert Panel.

Key Question 1. What are the primary barriers and facilitators^c to the receipt of clinical preventive services among people with disabilities?

- a. How do these barriers/facilitators vary according to preventive service?
- b. How do these barriers/facilitators vary according to type and/or severity of disability?
- c. How do these barriers/facilitators vary according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ (lesbian, gay, bisexual, transgender, queer/questioning plus/others) status, or geographic location?

Key Question 2. What is the effectiveness of interventions to improve the receipt of clinical preventive services among people with disabilities?

- a. How does the effectiveness vary according to preventive service?
- b. How does the effectiveness vary according to type and/or severity of disability?
- c. How does the effectiveness vary according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location?

^c Seven categories of barriers and facilitators may include but are not limited to:

- Environment-level (e.g., transportation; need/availability of guardian or caregiver)
- Person-level (e.g., fear; discomfort; functional ability; self-efficacy)
- Provider-level (e.g., disability knowledge/assumptions; bias or ableism; communication skills)
- Health system (e.g., insurance; patient functionality information in records; procedural accommodations, such as visit length and clinician reimbursement)
- Accessibility of health facilities (e.g., physical facility; equipment; sensory environment; telehealth)
- Accessible communication (e.g., within facility; from outside of facility)
- Policy-level (e.g., Federal or State laws)

2. Methods Summary

Key Question 3. What are the characteristics and/or components of interventions that contribute to their effectiveness (or lack of effectiveness) in mitigating barriers to the receipt of clinical preventive services among people with disabilities?

- How does the effectiveness vary according to preventive service?
- How does the effectiveness vary according to type and/or severity of disability?
- How does the effectiveness vary according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location?

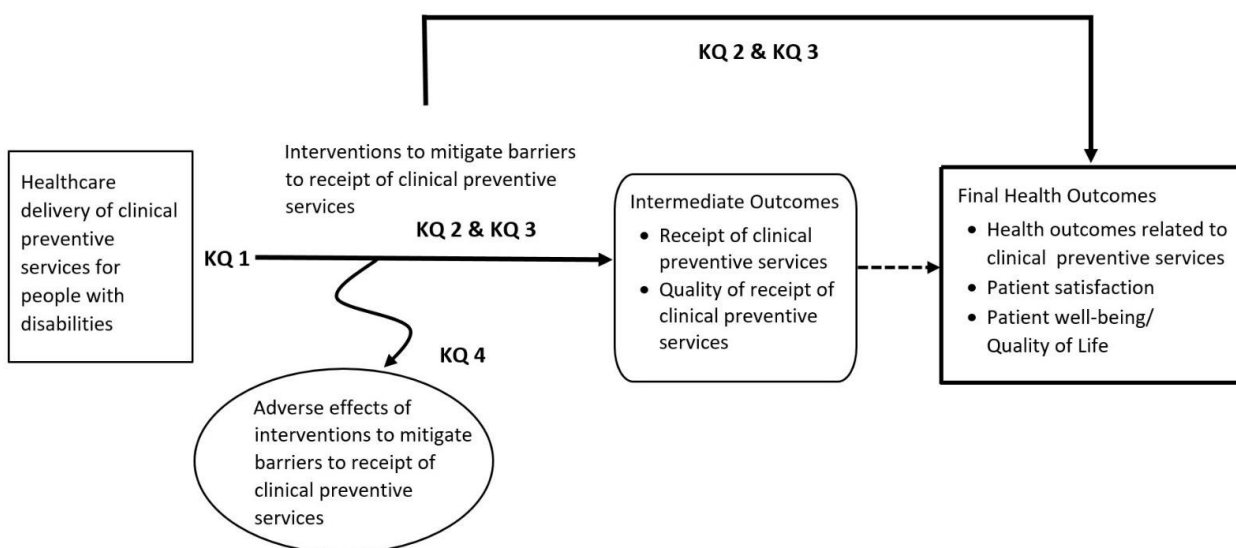
Key Question 4. What are the harms of intervention programs to mitigate barriers to the receipt of clinical preventive services among people with disabilities?

- How do the harms vary according to preventive service?
- How do the harms vary according to type and/or severity of disability?
- How do the harms vary according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location?

2.2 Analytic Framework

The analytic framework used for the review is presented in Figure 1.

Figure 1. Analytic framework^a



Abbreviation: KQ = Key Question

^a The analytic framework illustrates how the populations, interventions, and outcomes relate to the Key Questions for the review.

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2.3 PICOTS

The PICOTS (population, interventions, comparators, outcomes, timing, setting) framework helps operationalize Key Questions and definitions into criteria for searches and inclusion/exclusion decisions. Table 1 describes the PICOTS used to help screen studies.

Table 1. PICOTS and corresponding inclusion and exclusion criteria

Element	Include	Exclude
Population	<ul style="list-style-type: none"> • People with disabilities (including physical; cognitive/intellectual/developmental;^a sensory; serious psychiatric/mental illness^b) • Adults and children • Specific populations of interest: <ul style="list-style-type: none"> - Age - Gender^c - Race/ethnicity - Economic status - LGBTQ+ status - Geographic location (regional and urban/rural) - Immigration status - Incarcerated - Unhoused - Language spoken - Use of a guardian/proxy for healthcare decisions 	<ul style="list-style-type: none"> • Studies that do not include people with disabilities or do not report outcomes according to disability status
Intervention	<ul style="list-style-type: none"> • Interventions to mitigate barriers and/or improve the receipt of clinical preventive services among people with disabilities (e.g., modification in policies, practices, and procedures; effective communication; the physical accessibility of facilities; educational/training programs for healthcare providers) • Characteristics/components of interventions (KQ3) may include elements such as: staffing, funding, facilities, equipment, training • Clinical preventive services listed in Appendix A, Table A-2, derived from USPSTF Grade A and Grade B recommendations: <ul style="list-style-type: none"> - Screening (anxiety disorders, breast cancer, cervical cancer, colorectal cancer, depression, HIV infection, hypertension, intimate partner violence, osteoporosis, diabetes, unhealthy drug or alcohol use) - Interventions or behavioral counseling (breastfeeding, falls prevention, perinatal depression, tobacco use/cessation, weight loss, healthy diet and physical activity, sexually transmitted infections) 	<ul style="list-style-type: none"> • Interventions that do not address barriers to receipt of clinical preventive services for people with disabilities • Preventive services not listed in Appendix A, Table A-2.
Comparator	<ul style="list-style-type: none"> • Another intervention • No intervention • No comparator (when adequate comparative studies are lacking) 	NA
Outcome	<ul style="list-style-type: none"> • Receipt of clinical preventive service • Quality of receipt of clinical preventive service • Health outcomes related to clinical preventive service • Patient satisfaction • Patient well-being • Harms of the intervention program 	<ul style="list-style-type: none"> • Cost-effectiveness • Outcomes not related to included clinical preventive services listed in Appendix A, Table A-2.
Timing	<ul style="list-style-type: none"> • All 	NA

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Element	Include	Exclude
Setting	<ul style="list-style-type: none"> • Primary care outpatient clinics • Community health clinics • Settings referable from primary care settings • Emergency departments • Other settings (e.g., home, residence, mobile care units) • United States or countries with a "very high" United Nations Human Development Index 	<ul style="list-style-type: none"> • Inpatient and residential settings

Abbreviations: KQ = Key Question; LGBTQ+ = lesbian, gay, bisexual, transgender, queer/questioning plus/others; NA = not applicable; USPSTF = United States Preventive Services Task Force

^a Cognitive, intellectual, and/or developmental disabilities – alone or in combination – as well as acquired cognitive disabilities

^b Serious psychiatric/mental illness includes schizophrenia, bipolar disorder, and major depressive disorder

^c In this report we have used gender-specific terms (e.g., “women with disabilities”) when those terms were used by included studies; we have also used gender-neutral terms (e.g. “people with disabilities”) in some places when summarizing.

2.4 Systematic Review Procedures

2.4.1 Literature Search Strategy

A research librarian, with expertise conducting searches for systematic reviews, developed the search strategy, which was reviewed by the Technical Expert Panel and a second research librarian. We searched Ovid[®], MEDLINE[®], PsycINFO[®], Embase[®], Cochrane Central Register of Controlled Trials, and EBSCO CINAHL Plus from 1990, the year of the passage of the Americans with Disabilities Act, through April 23, 2024. We conducted searches for gray literature, with input from Key Informants and Technical Expert Panel members. The full search strategies are included in Appendix A. Our database search strategy was informed by an earlier search strategy developed by Walsh et al,⁴⁹ which used the International Classification of Functioning, Disability, and Health (ICF) concept of disability, and was refined with additional MeSH terms and keywords to meet the needs of this review. To identify literature on specific preventive services, we reviewed the published search strategies from relevant United States Preventive Services Task Force (USPSTF) reports and refined our searches accordingly.⁵⁰ Reference lists of included studies and relevant systematic reviews were searched for includable literature. We conducted updated searches during the draft report peer review and public comments period; we considered suggestions related to specific studies received from peer reviewers and in public comments.

2.4.2 Criteria for Inclusion/Exclusion of Studies in the Review

Criteria for determining the inclusion and exclusion of abstracts were established *a priori* and in accordance with the AHRQ Methods Guide.⁴⁸ These criteria were based on the Key Questions and the PICOTS framework presented in Table 1, above, and are elaborated with regard to included study designs below. For all studies, two reviewers independently screened abstracts and full-text articles. All abstracts excluded by one team member were reviewed by a second team member to determine inclusion or exclusion. Abstracts deemed appropriate for inclusion by at least one reviewer were retrieved for review of the full-text article. Each full-text article was independently reviewed for eligibility by two team members. Disagreements regarding inclusion/exclusion at the full-text level were resolved by discussion and consensus among team members. Team members were not involved in decisions about inclusion for studies on which they were authors. We used DistillerSR software (*DistillerSR*. Version 2.35. DistillerSR Inc.; 2022) to assist with abstract and full-text review for inclusion/exclusion decisions and tracking.

2. Methods Summary

A record of studies excluded at the full-text level with reasons for exclusion was maintained and is included in Appendix D.

The following criteria, related to study design and reporting, were also used to determine inclusion and exclusion of studies:

Key Question 1. We considered for inclusion: trials, observational studies, surveys, descriptive studies, and qualitative studies (e.g., focus groups or formal Key Informant interviews) that were designed to describe and/or assess barriers to and/or facilitators of the receipt of clinical preventive services for people with disabilities. Previous systematic reviews have characterized barriers/facilitators for healthcare in general among people with disabilities; the focus of this review was on barriers/facilitators related to the receipt of clinical preventive services. Studies that were not designed specifically to assess barriers/facilitators to the receipt of clinical preventive services were excluded. We considered for inclusion studies that described barriers/facilitators as experienced or perceived by patients, caregivers, clinicians or other healthcare workers, administrators, or others whose roles are relevant to the receipt of clinical preventive services for people with disabilities. We included relevant studies of individuals with multiple co-occurring types of disability (e.g., physical and cognitive). We included studies of various different types of disability, if the study reported barriers/facilitators as related to the specific type of disability and/or made clear that reported barriers/facilitators applied to all of the included types of disability. We included studies of multiple clinical preventive services, if the study reported barriers/facilitators as related to the specific type of preventive service and/or made clear that reported barriers/facilitators applied to all of the included preventive services.

Key Questions 2, 3, and 4. We considered for inclusion trials and observational studies (e.g., cohorts or before-after designs) of interventions to improve the receipt of clinical preventive services among people with disabilities. As indicated in Table 1, interventions of interest included a variety of types (e.g., behavioral/educational, modification of physical facilities/equipment, changes in policy/practices) addressing a variety of targets (e.g., patients, clinicians, physical facilities, healthcare organizations, communities). Our initial inclusion criteria were limited to comparative studies (i.e., an intervention compared with another intervention or with no intervention), and excluded studies with data from only one point in time. However, after completion of the first review (single reviewer) of abstracts and full-text papers, we had identified a relatively small number of comparative studies for inclusion, and we submitted to AHRQ a formal amendment to the protocol. Following the amended protocol, we used a best-evidence approach for the second review (dual review) of abstracts and full-text papers, in which we considered noncomparative studies or studies with data from only one time-point (e.g., diagnostic accuracy) when adequate comparative studies were lacking. Included studies may or may not have defined specific barriers that an intervention was intended to mitigate. Interventions that also addressed factors other than clinical preventive services were considered for inclusion, provided that the study assessed and reported on the effect of the intervention on included outcomes related to included clinical preventive services. We excluded descriptive studies with no outcomes data.

For all Key Questions, we considered for inclusion recent systematic reviews that addressed the Key Questions and were rated high quality (e.g., using the Measurement Tool to Assess systematic Reviews (AMSTAR 2)).⁵¹ We excluded commentaries, letters, narrative reviews, conference abstracts, and articles that described interventions and/or barriers/facilitators but were

2. Methods Summary

not the actual reports of the relevant studies. Inclusion was restricted to English-language articles.

Clinical Preventive Services. The list of clinical preventive services included in the systematic review (Appendix A, Table A-2) was developed with input from the Technical Expert Panel, the AHRQ Task Order Officer, and content experts on the Evidence-based Practice Center (EPC) team. Each included preventive service has a Grade A or Grade B recommendation from the USPSTF as of September 27, 2023,⁵⁰ and was considered to be applicable and relevant to a large segment of the general population, including people with disabilities. To be considered for inclusion, a study must have addressed and/or measured an approach to providing the preventive service that is endorsed by the USPSTF Grade A or Grade B recommendation. For example, the USPSTF Grade B recommendation for breast cancer screening applies to screening mammography, but not to breast self-exam; and the USPSTF Grade B recommendation for interventions for falls prevention in community-dwelling older adults applies to exercise interventions, but not to multifactorial interventions.

In defining the scope of the review, these preventive services were considered to be of high priority for inclusion by Technical Expert Panel members and content experts. The list includes various general types of preventive services (screening, intervention, counselling), representing a breadth of health conditions and circumstances. The included preventive services are also characterized by a variety of different functional requirements and potential barriers for participation, with relevance to people with different types of disability (physical, sensory, cognitive/intellectual/developmental, serious psychiatric/mental illness).

2.4.3 Data Extraction

We developed data abstraction tables using Excel software after completion of the full-text review for inclusion. Data from included studies were abstracted into Excel data tables by one team member, and then translated into summary tables. A second reviewer performed quality checks on data abstraction for accuracy. Team members were not involved in data abstraction for studies on which they were authors.

For all studies, we abstracted general data, including study design, year of publication, setting, country, sample size, patient characteristics (e.g., age, gender, race, economic status), type(s) of disability (e.g., physical, cognitive/intellectual/developmental, sensory, serious psychiatric/mental illness), definition/measure of disability, if reported (e.g., activities of daily living, instrumental activities of daily living, Behavioral Risk Factor Surveillance System [BRFSS], National Health Interview Survey [NHIS], functional measures), severity of disability, type(s) of clinical preventive service, and source of funding.

For Key Question 1, we also abstracted data on the source of information on barriers/facilitators (e.g., patient, caregiver, family member, clinician, other healthcare worker, administrator), the reported barriers and/or facilitators, and the general category of each reported barrier/facilitator (e.g., environment-level, person-level, provider-level). In addition, we consolidated conceptually similar barriers/facilitators within overarching terms in the Excel tables (e.g., “transportation” to include various barriers/facilitators related principally to transportation). When classifying barriers and facilitators into the broad general categories, team members consulted with one another for consistency within and across preventive services. We followed a similar process when deciding on summary terms for common barriers and facilitators reported by individual studies.

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For Key Questions 2, 3, and 4, we also abstracted data on intervention characteristics (e.g., type of intervention, target of intervention, specific characteristic/components of intervention, mode of delivery, duration or frequency), reported outcomes and results, effectiveness of specific components of an intervention, if reported (Key Question 3), and harms of an intervention (Key Question 4).

2.4.4 Assessment of Individual Studies

We assessed risk of bias (internal validity) for controlled trials and nonrandomized studies of interventions (NRSIs) – mostly observational studies – using study design-specific criteria, as recommended in the chapter, “Assessing the Risk of Bias of Individual Studies When Comparing Medical Interventions” in the AHRQ Methods Guide.⁴⁸ Randomized controlled trials (RCTs) were evaluated using Cochrane risk of bias criteria,⁵² and observational studies were evaluated using criteria developed by the USPSTF.⁵³ To evaluate the general quality of the qualitative studies included for Key Question 1, we used the screening questions and qualitative category criteria of the Mixed Methods Appraisal Tool, Version 2018,⁵⁴ with guidance from an expert on the team (Appendix A). Cross-sectional studies were not assessed for risk of bias.

Each study was independently reviewed for risk of bias or general quality (Key Question 1) by two team members. Team members were not involved in quality or risk of bias assessments for studies on which they were authors. Any disagreements were resolved through discussion and consensus. Based on the risk of bias assessment, studies were rated as having “low,” “moderate,” or “high” risk of bias. For qualitative studies, general quality was rated as “good,” “fair,” or “poor.”

2.4.5 Data Synthesis

Data synthesis differed between the Key Questions. A brief description of the synthesis methods is included here and illustrated in more detail in the Results sections for each Key Question. For each question, we constructed tables with the relevant data from included studies (as described in the section on data abstraction, above). For each Key Question, we also constructed summary tables of the body of evidence, which highlight the main findings for each clinical preventive service, according to each specific type of disability (e.g., physical, cognitive/intellectual/developmental, sensory, serious psychiatric/mental illness, multiple co-occurring disabilities).

For Key Question 1, for each clinical preventive service for which evidence was identified, detailed lists of the specific reported barriers and facilitators for each type of disability were synthesized and presented in tables, clustered within each general category of barrier/facilitator (e.g., environment-level, person-level, provider-level). The findings were also summarized narratively for each clinical preventive service and type of disability.

For Key Question 2, for each clinical preventive service for which evidence was identified, we constructed a summary table, in which all included studies are presented according to the type(s) of disability studied, and in which the basic nature of the interventions and the main results are presented. The findings were also summarized narratively for each clinical preventive service and type of disability, with detailed descriptions and discussions of the studies and their findings. We did not attempt to assign strength of evidence ratings, due to the high methodological and clinical heterogeneity of the intervention strategies in the included studies, and out of concern that indirect comparisons between various heterogeneous interventions would not meaningfully address the questions and would lead to unreliable and potentially misleading

2. Methods Summary

conclusions. For the same reason – the high methodological and clinical heterogeneity of the intervention strategies in the included studies – we did not conduct quantitative pooled syntheses (meta-analyses).

3. Results

3.1 Included Studies

A total of 11,472 abstracts from electronic database searches and reference lists were reviewed; 803 papers were identified from the search and reference lists for full-text review, of which 735 articles were excluded (Appendix B). We included 68 studies for all Key Questions. For Key Question 1, we included 54 studies with qualitative or mixed methods designs (e.g., surveys, interviews, focus groups). For Key Question 2, 16 studies were included (7 randomized controlled trials [RCTs], 7 observational/nonrandomized studies of interventions [NRSIs], and 2 cross-sectional studies). Two included studies related to Key Question 3, and one study related to Key Question 4. A list of included studies can be found in Appendix C, and a list of excluded studies with reason for exclusion are in Appendix D. Data abstraction tables, including characteristics of individual studies, are in Appendix E. Details of risk of bias and general quality assessments are in tables in Appendix F. The reported barriers and facilitators for each clinical preventive service from Key Question 1 are outlined in individual tables by type(s) of disability in Appendix G. A table with included studies according to the clinical preventive service(s) and type(s) of disability addressed in Key Question 1 and a table of commonly reported barriers and facilitators by type of clinical preventive service can be found in Appendix H.

3.2 Key Question 1. What Are the Primary Barriers and Facilitators to the Receipt of Clinical Preventive Services Among People With Disabilities?

3.2.1 Key Points

- Fifty-four studies reported on barriers and/or facilitators to the receipt of clinical preventive services among people with disabilities. Studies were related to 10 of the 20 clinical preventive services included in the review: screening for anxiety disorder in adults (n=1); breast cancer screening (n=36); cervical cancer screening (n=19); colorectal cancer screening (n=6); screening for depression risk in adults (n=3); screening for HIV infection (n=1); screening for unhealthy alcohol use (n=2); interventions for falls prevention in community-dwelling older adults (n=1); counselling for healthy diet and physical activity for cardiovascular disease (CVD) prevention (n=1); and behavioral counselling to prevent sexually transmitted infections (n=3).
- By far, the largest number of studies were related to barriers/facilitators for the receipt of **breast cancer screening or cervical cancer screening**. The studies on these two preventive services pertained to people with disabilities of all general types (physical; cognitive/intellectual/developmental; sensory; serious psychiatric/mental illness), with the majority of studies pertained to people with physical disabilities (breast cancer screening, n=18; cervical cancer screening, n=8) or cognitive/intellectual/developmental disabilities (breast cancer screening, n=15; cervical cancer screening, n=7).
- For **breast cancer screening**, most categories of barriers/facilitators (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility, accessible communication) were reported for all types of disability, with the exception

3.2.1 Results, Key Question 1. Barriers and Facilitators To The Receipt of Clinical Preventive Services, Key Points

that policy-level barriers were reported only for people with cognitive/intellectual/developmental disability and serious mental illness.

- For **breast cancer screening among women with physical disabilities**, most reported barriers were at the person level (e.g., skeptical of need for screening, pain or discomfort with screening), the provider level (e.g., ableism, lack of knowledge about people with disabilities), and accessibility of health facility level (e.g., inaccessible mammography equipment, inaccessible facility). Most reported facilitators were at the provider level (e.g., knowledge about people with disabilities).
- For **breast cancer screening among women with cognitive/intellectual/developmental disabilities**, most reported barriers were at the environment level (e.g., decision-making delegate's refusal for screening, transportation), the person level (e.g., fear and/or embarrassment, pain/discomfort with screening), and the provider level (e.g., ableism, no explanation before screening procedure). Most reported facilitators were at the accessibility of communication level (e.g., use of accessible communication methods), the provider level (e.g., allowing preparatory visits, providing explanations before the procedure), and the level of the healthcare system (e.g., extra time for appointments).
- For **cervical cancer screening among women with physical disabilities**, most reported barriers were at the person level (e.g., feeling dependent on others, pain or discomfort with screening) and the provider level (e.g., negative attitude/ableism, not listening to the person with disabilities). Most reported facilitators were at the provider level (e.g., assistance with dressing, knowledge about people with disabilities).
- For **cervical cancer screening among women with cognitive/intellectual/developmental disabilities**, most reported barriers were at the person level (e.g., fear and/or embarrassment, not understanding the screening process) and the provider level (e.g., ableism, misconceptions about sexual activity and need for screening). Most reported facilitators were at the provider level (e.g., good rapport between provider and patient, providing an explanation before the procedure).
- The studies on **colorectal cancer screening** (n=6) pertained to people with physical disabilities (n=4) or people with serious mental illness (n=2). Most categories of barriers/facilitators (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility) were reported for both types of disability; no barriers or facilitators within the categories of accessible communication or policy were reported for either type of disability.
- Studies on **screening for depression risk** in adults (n=3) pertained to people with cognitive/intellectual/developmental disabilities and people with sensory disabilities. Studies on **behavioral counselling to prevent sexually transmitted infections** (n=3) pertained to people with physical disabilities and people with serious mental illness. Studies on **screening for unhealthy alcohol use** (n=2) pertained only to people with cognitive/intellectual/developmental disabilities. For each of the other preventive services, only one study was identified, each study related to only one type of disability: **screening for anxiety disorder in adults** (people with cognitive/intellectual/developmental disability); **screening for HIV infection** (people with sensory disabilities); **interventions for falls prevention in community-dwelling older adults** (people with cognitive/intellectual/developmental disability); and **counselling for healthy diet and physical activity for CVD prevention** (people with serious mental illness).

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

3.2.2 Summary of Findings

The findings for Key Question 1 are summarized and presented below for each of the 10 clinical preventive services for which we identified studies. For each preventive service, findings are presented by each general type of disability (physical, cognitive/intellectual/developmental, sensory, serious psychiatric/mental illness), with specific reported barriers and facilitators classified by general category (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility, accessible communication, policy-level).

3.2.2.1 Anxiety Disorder Screening in Adults

We identified one study that reported on barriers and facilitators to the receipt of screening for anxiety disorder among adults with disabilities.⁵⁵ The study, conducted in Canada, used focus groups and interviews to understand barriers and facilitators to the implementation of clinical practice guidelines for depression and anxiety in patients with dementia or Parkinson's disease, and addressed the breadth of clinical practice guidelines, including diagnosis and treatment/management. Because the focus group/interview questions combined dementia and Parkinson's disease – and did not report on physical disabilities related to Parkinson's disease – we have categorized the relevant study population to be people with cognitive/intellectual/developmental disabilities. The general quality of the study was assessed as good.

Most participants were physicians (n=33), representing various relevant specialties (family practitioners, geriatricians, geriatric psychiatrists, cognitive neurology, and movement disorders); the study also included patients with Parkinson's disease or their caregivers (n=7). Although most of the reported barriers/facilitators related to treatment/management or to other aspects of diagnosis, some barriers and facilitators related directly or indirectly to screening itself. Studies reported barriers/facilitators within various general categories, including person-level, provider-level, and healthcare system. The reported barriers included belief that screening tools have limitations, lack of awareness of screening tools, and difficulty identifying mood/emotions in patients with cognitive impairment. The reported facilitators included belief that screening tools are useful, commitment to health promotion, and good rapport with provider (Appendix G, Table G-1).

3.2.2.2 Breast Cancer Screening

We identified 36 studies that reported on barriers and/or facilitators to the receipt of breast cancer screening for people with disabilities.^{35-37,56-88} Studies included people with physical disabilities (n=18),^{35,36,58,59,61,65,66,70-72,74,77-80,83,86,87} cognitive/intellectual/developmental disabilities (n=15),^{37,56,57,60,64,67-70,73,75,76,84,85,88} sensory disabilities (n=4),^{66,70,71,87} serious mental illness (n=6),^{62,63,70,72,81,82} and multiple co-occurring disabilities (n=5).^{60,66,69,72,75} Studies reported barriers/facilitators within all of the various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, accessible communication, and policy-level. Studies used surveys (n=10)^{35,60,61,63,65,66,72,74-76} or a variety of qualitative methods, such as interviews or focus groups (n=27),^{36,37,56-59,62,64,67-71,73,76-88} to elicit information about barriers and/or facilitators from people with disabilities (n=29),^{35-37,56-63,65-67,70,71,74-83,86-88} caregivers (n=6),^{56,57,64,68,73,85} clinicians (n=5),^{56,62,69,72,82} or others (n=2).^{56,84} Most studies were conducted in the United States (n=21; 58%)^{35-37,56,61,63,65,66,70,71,74,75,78,80-87} or the United Kingdom (n=9; 25%),^{57,58,60,62,64,67-69,88} with other studies from Australia (n=3),^{73,77,79} France (n=1),⁷² Ireland (n=1),⁷⁶ and Turkey (n=1).⁵⁹ The general quality of studies was assessed as good (n=19)^{36,37,56-59,62,65,66,69-71,80-86} to fair (n=16)^{35,60,61,64,67,68,72-79,87,88} for most studies, and

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

one study rated as poor,⁶³ with the most common limitations related to unclear inclusion criteria, unclear reporting of response rate and missing data, and not using validated instruments in survey studies. Specific barriers and facilitators are reported for each general type of disability in the following sections (3.2.2.2.1 – 3.2.2.2.5) and in Appendix G, Tables G-2 to G-6.

3.2.2.2.1 Physical Disability

We identified 18 studies that reported on barriers and/or facilitators to the receipt of breast cancer screening for people with physical disabilities.^{35,36,58,59,61,65,66,70-72,74,77-80,83,86,87} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, and policy-level. Specific reported barriers are presented in Table 2, including inaccessible mammography machine,^{59,61,70,71,74,77-80,87} inaccessible healthcare facility,^{35,59,70,71,77,78,86,87} person with disability believing that screening is not necessary,^{65,70,74,78} negative attitude from provider,^{36,58,70,78,86} transportation issues,^{36,59,70,71,78,80} and treatment fatigue from disability/other comorbidities.^{36,78,83,86} Specific reported facilitators are also presented in Table 2, including accessible mammography machine,^{77,78,87} accessible healthcare facility,^{61,66,72,77,79} and provider being educated or have knowledge about treating people with disability.^{59,79}

Table 2. Breast cancer screening – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Assistance with finding PCP • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening not necessary/skeptical • Difficulty booking and attending appointments • Difficulty staying still • Distrust of the healthcare system • Fear of screening because of family history of breast cancer • Fear and/or embarrassment • Feeling dependent on others • Feeling vulnerable • Lacking health education • Not understanding the screening process • Pain or discomfort with screening • PwD not informed about insurance coverage • PwD time constraints • Treatment fatigue from disability/other comorbidities 	<ul style="list-style-type: none"> • PwD being health consciousness • PwD feeling in control • PwD understanding screening
Provider-level	<ul style="list-style-type: none"> • Lack of awareness of current guidelines • Lack of communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation • Negative attitude toward patient/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Education and/or knowledge about PwD • Explanation provided before screening procedure • Good rapport with provider • Listening to patients' needs • Provider adjusting screening procedures to accommodate patient's disability • Providing referrals • Understanding PwD's needs and barriers

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Category	Barriers	Facilitators
Healthcare system	<ul style="list-style-type: none"> • Lack of appropriate provider • Lacking insurance • No reminder to receive screening • Provider time constraints 	<ul style="list-style-type: none"> • Care continuity • Communication about disability needs • Reduction of cost to receive service • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible facility • Inaccessible mammography equipment 	<ul style="list-style-type: none"> • Accessible facility • Accessible mammography equipment • Familiar location
Policy-level	<ul style="list-style-type: none"> • Insurance not fully covering cost 	<ul style="list-style-type: none"> • NA

Abbreviations: PwD = people with a disability/person with a disability

3.2.2.2.2 Cognitive/Intellectual/Developmental Disability

We identified 15 studies that reported on barriers and/or facilitators to the receipt of breast cancer screening for people with cognitive/intellectual/developmental disabilities.^{37,56,57,60,64,67-70,73,75,76,84,85,88} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, accessible communication, and policy-level. Specific reported barriers are presented in Table 3, including decision-making delegate's refusal,^{60,64,68-70,84} difficulty communicating with a person with intellectual disability,^{56,64,84} patients' fear and/or embarrassment,^{57,60,64,67,68,76} inaccessible equipment,^{70,73,88} inaccessible facility,^{56,68,70} lack of provider recommendation,^{60,64,69,84} lacking health education/promotion,^{56,68,75} provider's negative attitude,^{37,56,60,64,70,73} no explanation provided before the screening procedure,^{37,70,75,85,88} patients not understanding the screening process,^{56,57,69,73} and patient's pain or discomfort with screening.^{57,60,67,68,70,73,75,84,85,88} Specific reported facilitators are also presented in Table 3, including accessible communication methods,^{37,56,64,67,68,75,84} people with disabilities having a supportive family/caregiver,^{56,68,70,73,75,84,85,88} and people with disabilities being health conscious.^{37,75}

Table 3. Breast cancer screening – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Decision-making delegate's refusal • Family/caregiver feeling overwhelmed • Family/caregiver lacking communication skills to accommodate disability • Family/caregiver lacking health knowledge • History of sexual assault • Lacking health education/promotion in community • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Family/caregiver being health conscious • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Difficulty staying still for the procedure • Distrusting of the healthcare system • Fear and/or embarrassment • Fear from having family history of breast cancer • Feeling vulnerable • Inability to give informed consent • Lacking health education • Not understanding screening process • Pain or discomfort with screening • PwD time constraints • Treatment fatigue from disability/other comorbidities 	<ul style="list-style-type: none"> • PwD being health conscious • PwD feeling in control • PwD having coping strategies • Having family history of cancer make PwD more receptive to screening • Learning cancer symptoms • Understanding screening

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Category	Barriers	Facilitators
Provider-level	<ul style="list-style-type: none"> • Provider lacking awareness of current guidelines • Provider lacking communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation for screening • Negative attitude toward patient/ableism • No explanation before screening procedure • Not assessing need for decision-making delegate • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Allowing preparatory visits • Commitment to health promotion • Explanation provided before screening procedure • Good rapport with PwD • Knowledge of individual patient and preferences • Listening to PwD's needs • Measures to reduce pain during procedure • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Appointment time constraints • Lack of appropriate providers • Lack of care coordination • Lack of communication about disability needs • Lacking insurance 	<ul style="list-style-type: none"> • Allow sedation of PwD • Allowing alternative procedure • Bringing screening procedure to where PwD lives • Care continuity • Care coordination • Extra appointment time • Schedule female provider • Reduction of cost to receive service • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility • Sensory environment 	<ul style="list-style-type: none"> • Closer location
Accessible communication	<ul style="list-style-type: none"> • Lacking internet access • Literacy issues 	<ul style="list-style-type: none"> • Accessible communication methods
Policy-level	<ul style="list-style-type: none"> • Caregiver lacking decision-making authority 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

3.2.2.2.3 Sensory Disability

We identified four studies that reported on barriers and/or facilitators to the receipt of breast cancer screening for people with sensory disabilities (visual impairment or deafness).^{66,70,71,87} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, and accessible communication. Specific reported barriers are presented in Table 4, including inaccessible communication method,^{70,71,87} inaccessible facility,^{70,71,87} lack of insurance,^{70,71} and transportation issues.^{70,71} Specific reported facilitators are also presented in Table 4, including care continuity,⁷⁰ reliable transportation,⁷⁰ supportive family/caregivers,⁷⁰ and provider's understanding of a person's disability.⁷⁰

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Table 4. Breast cancer screening – sensory disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening is not necessary • Difficulty with booking and attending appointments • Distrust of the healthcare system • Fear from having family history of breast cancer • Feeling vulnerable • Pain or discomfort of screening • Lacking health education 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Lack of communication skills to accommodate disability • Negative attitude toward PwD/ableism • No explanation before screening procedure 	<ul style="list-style-type: none"> • Explanation provided before screening procedure • Good rapport with PwD • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lacking insurance • No reminder to receive screening 	<ul style="list-style-type: none"> • Care continuity
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility 	<ul style="list-style-type: none"> • NA
Accessible communication	<ul style="list-style-type: none"> • Inaccessible communication method 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

3.2.2.2.4 Serious Mental Illness

We identified six studies that reported on barriers and/or facilitators to the receipt of breast cancer screening for people with serious mental illness (e.g., schizophrenia, bipolar disorder, major depressive disorder).^{62,63,70,72,81,82} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, and policy-level. Specific reported barriers are presented in Table 5, including patients believing screening is not necessary,^{62,70,81,82} difficulty booking and attending appointment,^{62,70,82} patient's fear and/or embarrassment,^{62,70,82} provider lacking knowledge about providing care for people with disabilities,^{62,72} people with disabilities lacking support/advocacy,^{62,70,72} short appointment time,^{62,72,82} and transportation issues.^{62,70,82} Specific reported facilitators are also presented in Table 5, including provider committed to health promotion,^{62,81,82} and provider's understanding the barriers that people with disabilities face.^{62,70,72,81}

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Table 5. Breast cancer screening – serious mental illness disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing in faith as protection • Believing screening not necessary/skeptical • Difficulty with booking and attending appointments • Distrust of the healthcare system • Fear and/or embarrassment • Fear of screening because of family history of cancer • Feeling vulnerable • Lack of motivation • Lacking health education • Not understanding screening • Pain or discomfort with screening • Treatment fatigue from disability/comorbidities 	<ul style="list-style-type: none"> • Believing in faith as protection • Having physical symptoms of screening condition • PwD being health conscious
Provider-level	<ul style="list-style-type: none"> • Focus on acute needs • Lack of communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation • Lack of rapport with provider • Lack of training to provide screening service • Negative attitude toward PwD/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Awareness of guidelines • Commitment to health promotion • Competency in providing screening service • Education and/or knowledge about PwD • Explanation provided before service • Good communication skills to accommodate disability • Good rapport with provider • Listening to PwD's needs • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of care coordination • Lack of communication about disability needs • Lack of resources • Lacking insurance • Long wait time for appointments • No reminder to receive screening • Overwhelming number of reminders • Appointment time constraint 	<ul style="list-style-type: none"> • Care continuity • Care coordination • Providing faster results • Reminder to receive screening • Scheduling female provider
Accessibility of facilities	<ul style="list-style-type: none"> • Aggravating sensory environment • Inaccessible facility 	<ul style="list-style-type: none"> • Familiar location
Policy-level	<ul style="list-style-type: none"> • Insurance not fully covering cost 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

3.2.2.2.5 Multiple Co-Occurring Disabilities

We identified five studies that reported on barriers and/or facilitators to the receipt of breast cancer screening for people with multiple co-occurring types of disability (i.e., physical and cognitive/intellectual/developmental disabilities, physical disability and serious mental illness, physical and sensory disabilities, and cognitive/intellectual/developmental disability and serious mental illness).^{60,66,69,72,75} Studies reported barriers/facilitators at the provider level, the level of the healthcare system, and related to the accessibility of healthcare facilities. Specific reported barriers are presented in Table 6, including inaccessible mammography equipment,⁷⁵ mobility issue,^{60,69} and insufficient sedation during the procedure.⁷⁵ Specific reported facilitators are also presented in Table 6, including accessible facility,^{66,72} and an explanation of the procedure provided before the preventive service.⁶⁶

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Table 6. Breast cancer screening – multiple co-occurring disabilities: barriers and facilitators

Category	Barriers	Facilitators
Provider-level	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Explanation provided before service
Healthcare system	<ul style="list-style-type: none"> • Lack of sedation during the procedure 	<ul style="list-style-type: none"> • NA
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible mammography equipment • Mobility issue 	<ul style="list-style-type: none"> • Accessible facility

Abbreviations: NA = not applicable

3.2.2.3 Cervical Cancer Screening

We identified 19 studies that reported on barriers and/or facilitators to the receipt of cervical cancer screening for people with disabilities.^{35,56-59,62,63,65,74,80,82,83,85,89-94} Studies included people with physical disabilities (n=8),^{35,58,59,65,74,80,83,92} cognitive/intellectual/developmental disabilities (n=7),^{56,57,85,90,91,93,94} sensory disabilities (n=1),⁸⁹ and serious mental illness (n=3),^{62,63,82} but no studies of people with multiple co-occurring disabilities. Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, accessible communication, and policy-level. Studies used surveys (n=5)^{35,63,65,74,92} or a variety of qualitative methods, such as interviews or focus groups (n=14),^{56-59,62,80,82,83,85,89-91,93,94} to elicit information about barriers and/or facilitators from people with disabilities (n=14),^{35,56-59,62,63,65,74,80,82,83,89,90} caregivers (n=4),^{56,57,85,90} clinicians (n=7),^{56,62,82,91-94} or others (community leaders, n=1),⁵⁶ five studies included two or more categories of participant. Most studies were conducted in the United States (n=10; 53%)^{35,56,63,65,74,80,82,83,85,91} or the United Kingdom (n=6; 32%),^{57,58,62,90,93,94} with other studies from Australia (n=1),⁹² Taiwan (n=1),⁸⁹ and Turkey (n=1).⁵⁹ The general quality of studies was rated as good (n=15),^{56-59,62,65,80,82,83,85,89-92,94} fair (n=3),^{35,74,93} and poor (n=1),⁶³ with common limitations including lack of an adequate response rate and missing data for survey designs, and unclear data collection methods for addressing the research question for qualitative designs. Specific barriers and facilitators are reported for each general type of disability in the following sections (3.2.2.3.1 – 3.2.2.3.4) and in Appendix G, Tables G-7 to G-10.

3.2.2.3.1 Physical Disability

We identified eight studies that reported on barriers and/or facilitators to the receipt of cervical cancer screening for people with physical disabilities.^{35,58,59,65,74,80,83,92} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, and accessibility of healthcare facilities. Specific reported barriers are presented in Table 7, including inaccessible facility,^{35,59,83} inaccessible equipment,^{59,74} transportation issues,^{59,80} and patient's fear and/or embarrassment.^{59,83} Specific reported facilitators are also presented in Table 7, including accessible equipment,^{58,92} longer appointments,⁹² and providers having education and/or knowledge about patients with disabilities.⁵⁹

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Table 7. Cervical cancer screening – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Transportation issue 	<ul style="list-style-type: none"> • NA
Person-level	<ul style="list-style-type: none"> • Believing screening is not necessary/skeptical • Distrust of the healthcare system • Fear and/or embarrassment • Feeling dependent on others • Lacking health education • Not informed about insurance coverage • Pain or discomfort with screening • Time constraints 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation • Lack of rapport with provider • Negative attitude toward patient/ableism • Not listening to person with disabilities 	<ul style="list-style-type: none"> • Assistance with dressing • Education and/or knowledge about PwD • Listening to PwD's needs • Mobility assistance • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Longer appointments
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility 	<ul style="list-style-type: none"> • Accessible equipment • Familiar location

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

3.2.2.3.2 Cognitive/Intellectual/Developmental Disability

We identified seven studies that reported on barriers and/or facilitators to the receipt of cervical cancer screening for people with cognitive/intellectual/developmental disabilities.^{56,57,85,90,91,93,94} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, accessibility of healthcare facilities, accessible communication, and policy-level. Specific reported barriers are presented in Table 8, including provider misconceptions about patient's sexual activity and need for screening,^{56,57,85,90,91} patient's fear and/or embarrassment,^{57,85,90,94} patient lacking insurance,^{56,85} literacy issues,^{93,94} provider time constraints,^{91,94} patient distrusting the healthcare system⁵⁶ or not understanding the screening process,^{56,94} patient's pain or discomfort with screening,^{57,94} and clinician not providing an explanation before the screening procedure.^{57,90} Specific reported facilitators are also presented in Table 8, including clinician providing an explanation before the screening procedure,^{85,93,94} patient having good rapport with provider,^{90,94} supportive family or caregiver,^{56,90} a female provider,^{57,90} and the provider listening to the person with a disability.^{57,94}

Table 8. Cervical cancer screening – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Abusive family/caregiver's presence prevent patient from responding honestly • History of sexual assault • Transportation issue 	<ul style="list-style-type: none"> • Allowing chaperone during appointment • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Distrust of the healthcare system • Fear and/or embarrassment • Inability to give informed consent • Lacking health education • Not understanding screening process • Pain or discomfort with screening 	<ul style="list-style-type: none"> • Having family history of cancer make PwD more receptive to screening • Learning cancer symptoms

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Category	Barriers	Facilitators
Provider-level	<ul style="list-style-type: none"> • Difficulty communicating with person with IDD • Discomfort discussing sexuality • Lack of communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Misconceptions about sexual activity and need for screening • Negative attitude toward PwD/ableism • No explanation before screening procedure 	<ul style="list-style-type: none"> • Accommodating disability • Commitment to health promotion • Encouraging patient control of screening process • Explanation provided before screening procedure • Good rapport with provider • Knowledge of individual patient and preferences • Listening to PwD's needs • Providing referrals
Healthcare system	<ul style="list-style-type: none"> • Lack of care coordination • Lacking insurance • Time constraints, provider 	<ul style="list-style-type: none"> • Scheduling female provider • Specialist referral • Sedation of PwD
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible facility 	<ul style="list-style-type: none"> • NA
Accessible communication	<ul style="list-style-type: none"> • Lacking internet access • Literacy issues 	<ul style="list-style-type: none"> • Accessible communication methods
Policy-level	<ul style="list-style-type: none"> • Caregiver lacking decision-making authority 	<ul style="list-style-type: none"> • Guidance documents

Abbreviations: IDD = intellectual/developmental disability; NA = not applicable; PwD = people with disabilities/person with a disability

3.2.2.3.3 Sensory Disability

We identified one study that reported on barriers to the receipt of cervical cancer screening for people with sensory disabilities (visual impairment),⁸⁹ and no study of D/deaf people. The study reported barriers within two general categories, provider-level and healthcare system. Specific reported barriers were not providing an explanation before the screening procedure and not sending a reminder to receive screening (Appendix G, Table G-9).

3.2.2.3.4 Serious Mental Illness

We identified three studies that reported on barriers and/or facilitators to the receipt of cervical cancer screening for people with serious mental illness (e.g., schizophrenia, bipolar disorder, major depressive disorder).^{62,63,82} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, and accessibility of healthcare facilities. Specific reported barriers are presented in Table 9, including patient's fear and/or embarrassment,^{62,82} transportation issues,^{62,82} lack of care coordination,^{62,82} provider time constraints,^{62,82} the person with disability having difficulty booking and attending appointments^{62,82} or lacking motivation to receive screening,^{62,82} and lack of provider recommendation for screening.⁶³ Most reported facilitators were provider-related, including the person with a disability having good rapport with the provider^{62,82} (Table 9).

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Table 9. Cervical cancer screening – serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Transportation issue 	<ul style="list-style-type: none"> • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening not necessary/skeptical • Difficulty booking and attending appointments • Distrust of the healthcare system • Fear and/or embarrassment • Lack of motivation • Lacking health education • Not understanding screening process • Pain or discomfort with screening • Treatment-fatigue from disability/comorbidities 	<ul style="list-style-type: none"> • Having physical symptoms of screening condition • Health consciousness
Provider-level	<ul style="list-style-type: none"> • Focus on acute needs • Lack of knowledge about disability and providing care for PwD • Lack of rapport with provider • Lack of provider recommendation • Lack of training to provide screening service • Negative attitude toward PwD/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Awareness of guidelines • Commitment to health promotion • Competency in providing screening service • Education and/or knowledge about PwD • Explanation provided before service • Good communication skills to accommodate disability • Good rapport with provider • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of communication about disability needs • Lack of reminder to receive screening • Time constraints, provider • Long wait time for appointments • Overwhelming number of reminders 	<ul style="list-style-type: none"> • Care continuity • Care coordination • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Aggravating sensory environment 	<ul style="list-style-type: none"> • Familiar location

Abbreviations: PwD = people with disabilities/person with a disability

3.2.2.4 Colorectal Cancer Screening

We identified six studies that reported on barriers and/or facilitators to the receipt of colorectal cancer screening for people with disabilities.^{34,35,62,63,65,80} Studies included people with physical disabilities (n=4)^{34,35,65,80} and serious mental illness (n=2).^{62,63} No studies reported on people with cognitive/intellectual/developmental disabilities, sensory disabilities, or multiple co-occurring disabilities. Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, and accessibility of healthcare facilities. Studies used surveys (n=3)^{35,63,65} or a variety of qualitative methods, such as interviews or focus groups (n=3),^{34,62,80} to elicit information about barriers and/or facilitators from people with disabilities (n=6)^{34,35,62,63,65,80} and/or clinicians (n=1);⁶² one study included both patients and providers.⁶² Studies were conducted in the United States (n=5)^{34,35,63,65,80} and the United Kingdom (n=1).⁶² The general quality of the studies was assessed to be good (n=3),^{62,65,80} fair (n=2),^{34,35} or poor (n=1),⁶³ with common limitations including missing survey data and uncertainty regarding the coherence of data sources, data collection, and analysis/interpretation for a qualitative study. Specific barriers and facilitators are reported for each general type of disability in the following sections (3.2.2.4.1 – 3.2.2.4.2) and in Appendix G, Tables G-11 to G-12.

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

3.2.2.4.1 Physical Disability

We identified four studies that reported on barriers to the receipt of colorectal cancer screening for people with physical disabilities.^{34,35,65,80} No study reported facilitators for colorectal cancer screening for people with physical disabilities. Studies reported barriers within various general categories, including environment-level, person-level, provider-level, healthcare system, and accessibility of healthcare facilities. Specific reported barriers are presented in Table 10, including inaccessible test preparation process,^{35,65} transportation issue,^{34,80} and lack of provider recommendation.^{35,65}

Table 10. Colorectal cancer screening – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> Lacking support/advocacy Transportation issue 	<ul style="list-style-type: none"> NA
Person-level	<ul style="list-style-type: none"> Fear and/or embarrassment Feeling dependent on others Not understanding screening process Socioeconomic barriers (e.g. fixed income, inadequate insurance) 	<ul style="list-style-type: none"> NA
Provider-level	<ul style="list-style-type: none"> Lack of provider recommendation Not listening to PwD's needs Negative attitude toward PwD/ableism 	<ul style="list-style-type: none"> NA
Healthcare system	<ul style="list-style-type: none"> Long wait time for appointments 	<ul style="list-style-type: none"> NA
Accessibility of facilities	<ul style="list-style-type: none"> Inaccessible equipment Inaccessible facility Inaccessible test preparation process 	<ul style="list-style-type: none"> NA

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

3.2.2.4.2 Serious Mental Illness

We identified two studies that reported on barriers and/or facilitators to the receipt of colorectal cancer screening for people with serious mental illness (e.g., schizophrenia, bipolar disorder, major depressive disorder).^{62,63} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system, and accessibility of healthcare facilities. Specific reported barriers are presented in Table 11, including patient's fear and/or embarrassment,⁶² lack of provider recommendation to receive screening,⁶³ and provider time constraints.⁶² Specific reported facilitators are also presented in Table 11 and were most often provider-level, including provider's education and/or knowledge about people with disabilities⁶² and good communication skills to accommodate disability.⁶²

Table 11. Colorectal cancer screening – serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> Transportation issues 	<ul style="list-style-type: none"> Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> Believing screening not necessary/skeptical Difficulty booking and attending appointments Distrust of the healthcare system Fear and/or embarrassment Lack of motivation Lacking health education Not understanding screening process PwD time constraints Treatment-fatigue from disability/comorbidities 	<ul style="list-style-type: none"> Having physical symptoms of screening condition Health consciousness

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

Category	Barriers	Facilitators
Provider-level	<ul style="list-style-type: none"> • Focus on acute needs • Lack of knowledge about disability and providing care for PwD • Lack of training to provide screening service • Lack of provider recommendation • Lack of rapport with provider • Negative attitude toward PwD/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Awareness of guidelines • Commitment to health promotion • Competency in providing screening service • Education and/or knowledge about PwD • Explanation provided before service • Good communication skills to accommodate disability • Good rapport with provider • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of communication about disability needs • Lack of reminder to receive screening • Overwhelming number of reminders • Time constraints, provider 	<ul style="list-style-type: none"> • Care continuity • Care coordination • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Aggravating sensory environment 	<ul style="list-style-type: none"> • Familiar location

Abbreviations: PwD = people with disabilities/person with a disability

3.2.2.5 Depression Risk Screening in Adults

We identified three studies that reported on barriers and/or facilitators to the receipt of screening for depression for adults with disabilities.^{55,95,96} Studies included people with cognitive/intellectual/developmental disabilities (n=1)⁵⁵ and sensory disabilities (n=2).^{95,96} No studies reported on people with physical disabilities, serious mental illness, or multiple co-occurring disabilities. Studies reported barriers/facilitators at the person-level, provider-level, healthcare system, and policy-level. Studies used qualitative (n=1)⁵⁵ and mixed-methods approaches (n=2)^{95,96} to elicit information about barriers or facilitators from people with disabilities or caregivers (n=1)⁵⁵ and/or clinicians (n=3).^{55,95,96} Studies were conducted in the United Kingdom (n=2)^{95,96} and Canada (n=1).⁵⁵ The general quality of each study was assessed as good.^{55,95,96} Specific barriers and facilitators are reported for each general type of disability in the following sections (3.2.2.5.1 – 3.2.2.5.2).

3.2.2.5.1 Cognitive/Intellectual/Developmental Disability

We identified one study that reported on barriers and/or facilitators to the receipt of screening for depression for adults with cognitive/intellectual/developmental disabilities.⁵⁵ The study – which was also included for anxiety disorder screening and described in that section, above – used focus groups and interviews to understand barriers and facilitators to the implementation of clinical practice guidelines for depression and anxiety in patients with dementia or Parkinson's disease. Although most of the reported barriers/facilitators related to treatment/management or to other aspects of diagnosis, some barriers and facilitators related directly or indirectly to screening itself. Studies reported barriers/facilitators within various general categories, including person-level, provider-level, and healthcare system. The reported barriers included providers' belief that screening tools have limitations, difficulty identifying mood/emotions, and lack of awareness of screening tools. The reported facilitators included reassurance about the person with disability's emotions/feelings, awareness of guidelines, belief that screening tools are useful, and good rapport with provider (Appendix G, Table G-13).

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

3.2.2.5.2 Sensory Disability

We identified two studies that reported on barriers and/or facilitators to the receipt of screening for depression for adults with low vision.^{95,96} Each study reported on a separate phase of a single project conducted within a national low-vision care service in Wales, United Kingdom, including an intervention that is described in the Results for Key Question 2.⁹⁵ Studies used a mix of interviews and surveys with optometrists, dispensing opticians, and an ophthalmic practitioner. Studies reported barriers at the person-level, provider-level, and healthcare system, and a facilitator at the policy-level. Specific reported barriers included patients feeling fear and/or embarrassment,^{95,96} patients having distrust of the healthcare system,⁹⁵ providers lack knowledge about disability and providing care for people with disabilities, and long wait times for appointments.⁹⁵ The only reported facilitator was the availability and/or use of guidance documents⁹⁶ (Appendix G, Table G-14).

3.2.2.6 Screening for HIV Infection

We identified one study that reported on barriers and/or facilitators to the receipt of HIV screening for people with sensory disabilities.⁹⁷ No studies reported on people with physical disabilities, cognitive/intellectual/developmental disabilities, serious mental illness, or multiple co-occurring disabilities. The study used focus groups (21 focus groups with a total of 134 participants) and individual interviews (n=7) among D/deaf people in New York State to assess general knowledge about HIV/AIDS and barriers to HIV/AIDS education and prevention, including HIV testing. The general quality of the study was rated as good. The study reported barriers at the healthcare system-level and at the level of inaccessible communication. Specific reported barriers included inaccessible communication methods related to a lack of available interpreters and breaches of confidentiality that come with the use of interpreters, specifically the presence of guardians in appointments for adolescents (Appendix G, Table G-15).

3.2.2.7 Unhealthy Alcohol Use Screening

We identified two studies that reported on barriers and/or facilitators to the receipt of unhealthy alcohol use screening for people with cognitive/intellectual/developmental disabilities.^{98,99} No studies reported on people with physical disabilities, sensory disabilities, serious mental illness, or multiple co-occurring disabilities. Both studies were conducted by the same group of investigators in the United Kingdom. One study used surveys sent to managers of memory clinics (n=35) and focus groups of healthcare workers at memory clinics, including dementia nurse specialists, social workers, psychologists, and occupational therapists (2 focus groups with a total of 12 participants), to understand current practice, barriers, and facilitators to identifying and responding to alcohol problems among patients in memory clinics.⁹⁹ The other study used semi-structured interviews of people older than 65 years with cognitive impairment (n=10) receiving services in memory clinics, to understand the feasibility and acceptability of routine screening for alcohol misuse.⁹⁸ The general quality of both studies was rated as good.

The studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, healthcare system level, and the level of accessible communication. Specific reported barriers included patients' lack of confidence in answering the screening questions,⁹⁸ patients' fear and/or embarrassment,^{98,99} and time constraints for the provider.⁹⁹ Specific reported facilitators included people with disabilities being health conscious,⁹⁸ provider belief that screening tools are useful,⁹⁹ and accessible communication methods⁹⁸ (Appendix G, Table G-16).

3.2.2 Results, Key Question 1. Barriers and Facilitators to the Receipt of Clinical Preventive Services, Summary of Findings

3.2.2.8 Interventions To Prevent Falls in Community-Dwelling Adults

We identified one study that reported on barriers and/or facilitators to the receipt of interventions to prevent falls for community-dwelling adults with cognitive/intellectual/developmental disabilities.¹⁰⁰ No studies reported on people with physical disabilities, sensory disabilities, serious mental illness, or multiple co-occurring disabilities. The study was designed to provide information to guide the development of a falls prevention intervention for people with dementia. The study used semi-structured interviews (n=19) with nurses, physiotherapists, occupational therapists, and a psychiatrist in the United Kingdom, who work in memory assessment or falls prevention services for people with dementia. The general quality of the study was rated as good. The study reported barriers/facilitators within various general categories, including environment-level, provider-level, and healthcare system level. Specific reported barriers included lack of healthcare system resources and lack of care coordination. Specific reported facilitators included providers' knowledge of individual patients and preferences, and healthcare systems that bring services to people with disabilities, providing faster results, and care continuity (Appendix G, Table G-17).

3.2.2.9 Behavioral Counseling To Promote Healthy Diet and Physical Activity To Prevent Cardiovascular Disease

We identified one study that reported on barriers and/or facilitators to the receipt of counseling to promote healthy diet and physical activity to prevent CVD, including advice on healthy diet and physical activity, for people with disabilities.¹⁰¹ The study, conducted in the United Kingdom, included people with serious mental illness (schizophrenia and bipolar disorder). No studies reported on people with physical disabilities, cognitive/intellectual/developmental disabilities, sensory disabilities, or multiple co-occurring disabilities. The study reported barriers/facilitators within two general categories—person-level and healthcare system level. It used a qualitative survey to elicit information about barriers and/or facilitators from people with disabilities and clinicians. The general quality of the study was rated as fair, with a limitation of missing data and uncertainty if measures were validated on the population. Specific reported barriers included patient's lack of motivation and provider time constraints; the only reported facilitator was screening conducted in the primary care setting (Appendix G, Table G-18).

3.2.2.10 Sexually Transmitted Infection Prevention

We identified three studies conducted in the United States that reported on barriers and/or facilitators to the receipt of preventive services for sexually transmitted infections (STIs) for people with disabilities.¹⁰²⁻¹⁰⁴ Studies included people with physical disabilities (n=1)¹⁰⁴ and serious mental illness (n=2).^{102,103} No studies reported on people with cognitive/intellectual/developmental disabilities, sensory disabilities, or multiple co-occurring disabilities. Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, and healthcare system level. Studies used qualitative methods, including interviews (n=2)^{102,104} and focus groups (n=1),¹⁰³ to elicit information about barriers and/or facilitators from people with disabilities (n=1),¹⁰⁴ clinicians (n=1),¹⁰² or others (mental health case managers, n=1).¹⁰³ The general quality of studies was assessed as good (n=2)^{102,103} or

3.2.3 Results, Key Question 1a. Barriers/Facilitators According to Clinical Preventive Service

fair (n=1),¹⁰⁴ with a limitation related to uncertainty about the adequacy of the approach and data collection methods. Specific barriers and facilitators are reported for each general type of disability in the following sections (3.2.2.10.1 – 3.2.2.10.2).

3.2.2.10.1 Physical Disability

We identified one study that reported on barriers and/or facilitators to the receipt of preventive services for STIs for people with physical disabilities.¹⁰⁴ The study reported one person-level barrier: a disability that makes the preventive intervention more difficult to use (in this case, barrier contraception when the person with a disability lacked pelvic muscle tone). No facilitators were reported (Appendix G, Table G-19).

3.2.2.10.2 Serious Mental Illness

We identified two studies that reported on barriers and/or facilitators to the receipt of preventive services for STIs for people with serious mental illness (e.g., schizophrenia, bipolar disorder, major depressive disorder).^{102,103} Studies reported barriers/facilitators within various general categories, including environment-level, person-level, provider-level, and healthcare system. Specific reported barriers included provider's discomfort discussing sexuality with people with disabilities^{102,103} and misconceptions about sexual activity and need for screening.¹⁰² Specific reported facilitators included education/support in community groups¹⁰³ and providers' knowledge of individual people with disabilities and their preferences¹⁰² (Appendix G, Table G-20).

3.2.3 Key Question 1a. How Do These Barriers/Facilitators Vary According to Clinical Preventive Service?

Table 12 shows the number of studies that reported barriers and/or facilitators – presented by category of barrier/facilitator, within each preventive service and according to disability type. The individual studies within each category of barrier/facilitator and disability type are listed Table H-1 in Appendix H. As previously noted, the table shows that the largest number of studies pertained to breast cancer screening and/or cervical cancer screening, and addressed barriers/facilitators for people with cognitive/intellectual/ developmental disabilities or physical disabilities. The table also shows that the general categories of reported barriers/facilitators varied across the different preventive services, with barriers/facilitators at the person-level, provider-level, and healthcare system-level reported most commonly, and policy-level barriers/facilitators rarely reported. Table H-2 in Appendix H presents the more commonly reported individual barriers and facilitators and the preventive services to which they related.

Environment-level barriers/facilitators were reported for five preventive services. For breast cancer screening, environment-level barriers and facilitators were reported for all types of disability. For cervical cancer screening, barriers were reported for physical disability, cognitive/intellectual/developmental disability, and serious mental illness; with facilitators reported for cognitive/intellectual/developmental disability and serious mental illness. For colorectal cancer screening, barriers were reported only for physical disability and serious mental illness, and facilitator reported for serious mental illness. For screening for unhealthy alcohol use, both barriers and facilitators were reported only for people with cognitive/intellectual/developmental disabilities. For counselling to prevent STIs, both barriers and facilitators were reported for people with serious mental illness. The most commonly reported individual barrier

3.2.3 Results, Key Question 1a. Barriers/Facilitators According to Clinical Preventive Service

was transportation problems and the most common facilitator was having a supportive family/caregiver, both of which related to three screening services (Table H-2).

Person-level barriers/facilitators were reported for eight preventive services. For breast cancer screening, person-level barriers and facilitators were reported for all types of disability, except facilitators for sensory disability. For cervical cancer screening, barriers were reported for physical disability, cognitive/intellectual/developmental disability, and serious mental illness; with facilitators reported for cognitive/intellectual/developmental disability and serious mental illness. For colorectal cancer screening, barriers were reported only for physical disability and serious mental illness, with facilitators reported for serious mental illness. For counselling to prevent STIs, barriers were reported for physical disability and people with serious mental illness. For depression screening, barriers were reported for cognitive/intellectual/developmental disability and sensory disability, with facilitators reported for cognitive/intellectual/developmental disability. For other preventive services, barriers or facilitators were reported for only one type of disability: anxiety screening (barriers and facilitator for cognitive/intellectual/developmental disability); counselling for CVD prevention (barriers for serious mental illness); screening for unhealthy alcohol use (barriers and facilitators for cognitive/intellectual/developmental disability). The most commonly reported individual barriers were fear and/or embarrassment (5 screening services) and distrust of the healthcare system (4 screening services); the most common facilitator was health consciousness (4 screening services) (Table H-2).

Provider-level barriers/facilitators were reported for eight preventive services. For breast cancer screening, provider-level barriers and facilitators were reported for all types of disability. For cervical cancer screening, barriers and facilitators were reported for all types of disability, except facilitators for sensory disability. For colorectal cancer screening, barriers were reported only for physical disability and serious mental illness, with facilitators reported for serious mental illness. For depression screening, barriers and facilitators were reported for cognitive/intellectual/developmental disability, and barriers only were reported for sensory disability. For other preventive services, barriers or facilitators were reported for only one type of disability: anxiety screening (barriers and facilitators for cognitive/intellectual/developmental disability); screening for unhealthy alcohol use (facilitators for cognitive/intellectual/developmental disability); interventions for falls prevention (facilitators for cognitive/intellectual/developmental disability), and counselling to prevent STIs (barriers and facilitators for serious mental illness). The most commonly reported individual barriers were lack of knowledge about disability and providing healthcare for people with disabilities, and lack of training to provide the service (4 screening services and 1 counseling service); the most common facilitators were commitment to health promotion (6 screening and 1 counseling service), good rapport with patients (6 screening services), and awareness of guidelines (5 screening services) (Table H-2).

Healthcare system-level barriers/facilitators were reported for ten preventive services. For breast cancer screening, healthcare system-level barriers and facilitators were reported for all types of disability. For cervical cancer screening, barriers and facilitators were reported for all types of disability, except barriers for physical disability and facilitators for sensory disability. For colorectal cancer screening, barriers were reported only for physical disability and serious mental illness, with facilitators reported for serious mental illness. For depression screening, barriers were reported for cognitive/intellectual/developmental disability and sensory disability. For other preventive services, barriers and/or facilitators were reported for only one type of

3.2.3 Results, Key Question 1a. Barriers/Facilitators According to Clinical Preventive Service

disability: anxiety screening (barriers for cognitive/intellectual/developmental disability); screening for HIV infection (barrier for sensory disability); screening for unhealthy alcohol use (barriers for cognitive/intellectual/developmental disability); interventions for falls prevention (barriers and facilitators for cognitive/intellectual/developmental disability), counselling for CVD prevention (barriers and facilitators for serious mental illness); and counselling to prevent STIs (barriers and facilitators for serious mental illness). The most commonly reported individual barriers were lack of care coordination, lack of resources (three screening services and one preventive intervention), and long wait times for appointments (four screening services); the most common facilitator was care continuity (three screening services and one preventive intervention) (Table H-2).

Barriers/facilitators related to the **accessibility of healthcare facilities** were reported for three preventive services. For breast cancer screening, barriers and facilitators related to the accessibility of healthcare facilities were reported for all types of disability, except facilitators for sensory disability. For cervical cancer screening, barriers and facilitators were reported for physical disability and serious mental illness, with barriers only reported for cognitive. For colorectal cancer screening, barriers were reported for physical disability and serious mental illness and facilitators were only reported for serious mental illness. The most commonly reported individual barriers were inaccessible facility, inaccessible equipment, and aggravating sensory environment (three screening services); the most common facilitator was familiar location (three screening services) (Table H-2).

Barriers/facilitators related to **accessible communication** were reported for five preventive services. For breast cancer screening, barriers related to accessible communication were reported for cognitive/intellectual/developmental disability and sensory disability, with facilitators reported for cognitive/intellectual/developmental disability. For other preventive services, barriers and/or facilitators were reported for only one type of disability: cervical cancer screening (barriers and facilitators for cognitive/intellectual/developmental disability); HIV screening (barriers for sensory disability); screening for unhealthy alcohol use (barriers and facilitators for cognitive/intellectual/developmental disability); and counselling to prevent STIs (facilitators for serious mental illness). The most commonly reported individual barrier was inaccessible communication methods (three screening services) and the most common facilitator was accessible communication methods (three screening services) (Table H-2).

Policy-level barriers/facilitators were reported for three preventive services. For breast cancer screening, policy-level barriers were reported physical disability, cognitive/intellectual/developmental disability, and serious mental illness. For cervical cancer screening, barriers and facilitators were reported only for cognitive/intellectual/developmental disability. For depression screening, facilitators only were reported for sensory disability. The most common facilitator was the use of guidance documents (two screening services) (Table H-2).

3.2.3 Results, Key Question 1a. Barriers/Facilitators According to Clinical Preventive Service

Table 12. Barriers and facilitators by clinical preventive service and type of disability and number (n) of studies reporting on each category

USPSTF Clinical Preventive Service	Barrier/Facilitator Factor Level	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability ^a <i>Barrier</i>	Cognitive Disability ^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
Anxiety disorder screening for adults (n=1)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	n=1	n=1	--	--	--	--	--	--
	Provider	--	--	n=1	n=1	--	--	--	--	--	--
	Healthcare system	--	--	n=1		--	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Breast cancer screening (n=36)	Environment	n=7	n=3	n=10	n=10	n=2	n=1	n=4	n=3	--	--
	Person	n=11	n=3	n=14	n=6	n=2	--	n=4	n=2	--	--
	Provider	n=13	n=11	n=11	n=8	n=2	n=3	n=5	n=5	--	n=1
	Healthcare system	n=4	n=5	n=5	n=6	n=2	n=1	n=5	n=4	n=1	--
	Accessibility- HCF	n=13	n=9	n=5	n=1	n=3	--	n=2	n=1	n=3	n=2
	Accessible communication	--	--	n=2	n=7	n=3	--	--	--	--	--
	Policy	n=1	--	n=1	--	--	--	n=1	--	--	--
Cervical cancer screening (n=19)	Environment	n=2	--	n=2	n=3	--	--	n=2	n=1	--	--
	Person	n=4	--	n=5	n=2	--	--	n=2	n=1	--	--
	Provider	n=6	n=3	n=7	n=6	n=1	--	n=3	n=2	--	--
	Healthcare system	--	n=1	n=5	n=3	n=1	--	n=2	n=2	--	--
	Accessibility- HCF	n=5	n=3	n=1	--	--	--	n=1	n=1	--	--
	Accessible communication	--	--	n=3	n=1	--	--	--	--	--	--
	Policy	--	--	n=1	n=1	--	--	--	--	--	--
Colorectal cancer screening (n=6)	Environment	n=2	--	--	--	--	--	n=1	n=1	--	--
	Person	n=1	--	--	--	--	--	n=1	n=1	--	--
	Provider	n=3	--	--	--	--	--	n=2	n=1	--	--
	Healthcare system	n=1	--	--	--	--	--	n=1	n=1	--	--
	Accessibility- HCF	n=3	--	--	--	--	--	n=1	n=1	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--

3.2.3 Results, Key Question 1a. Barriers/Facilitators According to Clinical Preventive Service

USPSTF Clinical Preventive Service	Barrier/Facilitator Factor Level	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability ^a <i>Barrier</i>	Cognitive Disability ^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
Depression screening for adults (n=3)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	n=1	n=1	n=2	--	--	--	--	--
	Provider	--	--	n=1	n=1	n=2	--	--	--	--	--
	Healthcare system	--	--	n=1	--	n=1	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	n=1	--	--	--	--
HIV infection screening (n=1)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	--	--	--	--	--	--	--	--
	Provider	--	--	--	--	--	--	--	--	--	--
	Healthcare system	--	--	--	--	n=1	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	n=1	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Unhealthy alcohol use screening (n=2)	Environment	--	--	n=1	n=2	--	--	--	--	--	--
	Person	--	--	n=2	n=1	--	--	--	--	--	--
	Provider	--	--	--	n=2	--	--	--	--	--	--
	Healthcare system	--	--	n=1	--	--	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	n=1	n=1	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Falls prevention in community- dwelling older adults (n=1)	Environment	--	--	--	n=1	--	--	--	--	--	--
	Person	--	--	--	--	--	--	--	--	--	--
	Provider	--	--	--	n=1	--	--	--	--	--	--
	Healthcare system	--	--	n=1	n=1	--	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--

3.2.3 Results, Key Question 1a. Barriers/Facilitators According to Clinical Preventive Service

USPSTF Clinical Preventive Service	Barrier/Facilitator Factor Level	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability ^a <i>Barrier</i>	Cognitive Disability ^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
Healthy diet and physical activity for CVD prevention (n=1)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	--	--	--	--	n=1	--	--	--
	Provider	--	--	--	--	--	--	--	--	--	--
	Healthcare system	--	--	--	--	--	--	n=1	n=1	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Behavioral counseling to prevent STIs (n=3)	Environment	--	--	--	--	--	--	n=1	n=1	--	--
	Person	n=1	--	--	--	--	--	n=2	--	--	--
	Provider	--	--	--	--	--	--	n=2	n=2	--	--
	Healthcare system	--	--	--	--	--	--	n=1	n=2	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	n=1	--	--
	Policy	--	--	--	--	--	--	--	--	--	--

Abbreviations: CVD = cardiovascular disease; HCF = healthcare facility; SMI = serious mental illness; STI = sexually transmitted infection; USPSTF = United States Preventive Services Task Force

^a Cognitive, intellectual, and/or developmental disabilities – alone or in combination

3.2.4 Results, Key Question 1b. Barriers/Facilitators According to Type or Severity of Disability

3.2.4 Key Question 1b. How Do These Barriers/Facilitators Vary According to Type and/or Severity of Disability?

For most of the preventive services, either (1) the number of included studies and the number of reported barriers and/or facilitators was too small to allow for meaningful comments regarding variation by type of disability (screening for depression risk in adults; behavioral counselling to prevent sexually transmitted infections), or (2) the included studies pertained to only one general type of disability (screening for anxiety disorder in adults; screening for HIV infection; screening for unhealthy alcohol use; interventions for falls prevention in community-dwelling older adults; counselling for healthy diet and physical activity for CVD prevention). The following comments relate to breast, cervical, and colorectal cancer screening.

3.2.4.1 Breast Cancer Screening

Tables 2 to 6, in the section on Breast Cancer Screening above, present the reported barriers and facilitators according to general type of disability. Several general patterns across studies are notable. For example, lack of support/advocacy and transportation issues were reported for people with all types of disability. People with physical, cognitive/intellectual/developmental, sensory, or serious mental illness all reported distrust of the healthcare system, feeling vulnerable during mammography, and pain/discomfort with mammography as barriers to breast cancer screening. People with all types of disability also reported that providers' negative attitudes/ableism, lack of or insufficient insurance coverage, lack of communication skills to accommodate disability, lack of explanation of the preventive service prior to the procedure, an inaccessible facility, and inaccessible mammography equipment are barriers to breast cancer screening. Certain barriers were only reported for people with cognitive/intellectual/developmental disability, including barriers related to medical decision making such as a decision-making delegate's refusal, the person with cognitive/intellectual/developmental disability being unable to give informed consent, a provider not assessing the need for a decision-making delegate, and a caregiver lacking legal decision-making authority. Certain facilitators for screening mammography were reported for people with physical disability, cognitive/intellectual/developmental disability, sensory disability, and people with serious mental illness, including being health conscious, having continuity of care, having a good rapport with their provider, reliable transportation, and supportive family/caregiver. Having a provider who explains the preventive service prior to the procedure and understanding barriers faced by people with disability were also facilitators reported by people with all types of disability. Allowing preparatory visits, the use of sedation during the procedure, using an alternative procedure, extra appointment time, and having a female provider were facilitators reported only by people with cognitive/intellectual/developmental disability and/or their caregivers.

3.2.4.2 Cervical Cancer Screening

Tables 7 to 9, in the section on Cervical Cancer Screening above, present the reported barriers and facilitators according to general type of disability. Several general patterns across studies are notable. There are many barriers and facilitators that are common across disability type, including transportation issues; distrust of the healthcare system, experiencing discomfort with screening, or having fear and/or embarrassment around screening; whether or not providers were educated or knowledgeable about people with disabilities, listened to these patients, and had good rapport with them; whether providers used accessible communication, recommended screening to their patients with disabilities, and explained the screening procedure before

3.2.5 Results, Key Question 1c. Barriers/Facilitators According to Characteristic

undertaking it; and whether care was coordinated, appointments long enough, and screening reminders sent. Other barriers and facilitators were more specific to disability type. For example, inaccessible equipment and assistance with mobility and with dressing were reported only for patients with physical disabilities. Communication issues were more commonly reported for patients with cognitive/intellectual/developmental disabilities, including patient literacy and providers having difficulty communicating or obtaining informed consent. A history of sexual assault, as well as providers' misconceptions about sexual activity and need for screening among patients with intellectual or developmental disabilities, were also reported. For patients with serious mental illness, specific barriers included psychiatric symptoms, and the clinic setting exacerbating these symptoms; a facilitator was screening performed in a familiar location.

3.2.4.3 Colorectal Cancer Screening

Tables 10 and 11, in the section on Colorectal Cancer Screening above, present the reported barriers and facilitators according to general type of disability. Several general patterns across studies are notable. For example, barriers related to transportation, lack of provider recommendation to receive screening, provider's negative attitudes/ableism, patients not understanding the screening process, and fear and/or embarrassment were reported both for people with physical disabilities and people with serious mental illness; while barriers related to inaccessible equipment, inaccessible facility, and inaccessible test preparation process were reported only for people with physical disabilities. For people with physical disabilities, no facilitators were reported, while for people with serious mental illness studies reported multiple facilitators, such as care coordination and providers using accessible communication.

3.2.5 Key Question 1c. How Do These Barriers/Facilitators Vary According to Characteristics Such as: Gender, Race/Ethnicity, Economic Status, LGBTQ+ (Lesbian, Gay, Bisexual, Transgender, Queer/Questioning Plus/Others) Status, or Geographic Location?

No studies reported on variations in barriers or facilitators to the receipt of clinical preventive services according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location. For most of the preventive services, the number of included studies and the number of reported barriers and/or facilitators were too small to allow for meaningful comments regarding variation by these characteristics. The following comments relate to breast, cervical, and colorectal cancer screening.

3.2.5.1 Breast Cancer Screening

No studies reported on variations in barriers or facilitators to the receipt of breast cancer screening according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location. Nor did a sufficient number of studies report on these characteristics within the study populations to allow for meaningful general comparisons across studies. However, one study in women with physical, sensory, or any combination of physical, hearing, and/or visual disability reported that women of Black and other race/ethnicity were more likely to report needing additional staff assistance with paperwork and during the appointment than white women, as a facilitator to receive mammography.⁶⁶ The study also reported that Black women were more likely to report longer appointment time as a facilitator than white and other race/ethnicity women.⁶⁶ Compared with White women, those of other

3.2.5 Results, Key Question 1c. Barriers/Facilitators According to Characteristic

racess/ethnicities were more likely to report having an oral description of the procedure as a facilitator.⁶⁶ In a study targeting Native American women in rural and urban settings,⁵⁶ distrust of allopathic medicine was mentioned as a barrier while studies in other race/ethnicity groups only pointed to general mistrust of the healthcare system. Nine of the included 36 studies were conducted in urban and rural settings,^{35,56,62,65,66,70-72,74} and four studies were conducted in urban setting.^{61,79,82,87} Six of the nine studies in mixed settings did not mention any difference between in reported barriers and facilitators,^{62,65,66,70,72,74} while two studies reported similar barriers and facilitators between rural and urban settings.^{35,71} Reported barriers and facilitators were generally similar between studies conducted only in an urban setting and other studies.^{61,79,82,87} The study in Native American women with cognitive/intellectual/developmental disability reported barriers and facilitators to be generally similar between rural and urban settings, except rural women reported longer travel distance as a barrier that was not mentioned by women in urban settings.⁵⁶

3.2.5.2 Cervical Cancer Screening

No studies reported on variations in barriers or facilitators to the receipt of cervical cancer screening according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location. However, some studies did report on these characteristics within the included study populations, and we note several general patterns across studies. Two of the 19 studies included younger age groups, with the largest groups of patients in each study approximately 20 to 30 years old;^{58,85} another two studies included older patients, with the largest groups in their mid-40's to mid-60's.^{35,62} The only barriers or facilitators in common between the studies of older and younger patients were fear and/or embarrassment (barrier) and rapport with the provider (facilitator). Distrusting the healthcare system and lacking insurance were reported barriers for younger patients, as was the facilitator of providers listening to people with disabilities; there were many barriers/facilitators reported for older patients, including inaccessible facility, transportation issues, care coordination, and not understanding the screening process.

One study, described above for breast cancer screening, included only Native American women with disabilities, 67 percent of whom lived in a rural setting.⁵⁶ Comparing this study to two studies of primarily White patients^{62,74} showed several barriers or facilitators in common: transportation issues, not understanding the screening process, rapport with provider, and provider using accessible communication. Barriers and facilitators that differed between the groups included, in Native American women, lacking insurance or internet, having a supportive family or caregiver, and distrusting the healthcare system; and in the studies with predominantly White women, care coordination, fear and/or embarrassment, and lack of motivation.

Comparing the study of Native American women in largely rural settings with three studies in which about 90 percent of people with disabilities lived in urban or other nonrural settings,^{35,74,91} an inaccessible facility and misconceptions about sexual activity and need for screening were the only barriers or facilitators in common. Barriers or facilitators reported in the studies of nonrural people with disabilities, but not in primarily rural Native American women, included patient and provider time constraints, lack of rapport with the provider, and the provider not recommending screening.

3.3.1 Results, Key Question 2. Effectiveness of Interventions, Key Points

3.2.5.3 Colorectal Cancer Screening

No studies reported on variations in barriers or facilitators to the receipt of colorectal cancer screening according to characteristics such as: gender, race/ethnicity, economic status, LGBTQ+ status, or geographic location. However, some studies did report on these characteristics within the included study populations, and we note a general pattern across studies. Two of the included six studies enrolled primarily female patients (87% and 100%), and four studies had more balanced gender ratios. Transportation issues, fear and/or embarrassment, and not understanding the screening process were common barriers across studies, while other barriers and facilitators were present more in one group of studies than the other; for example, lack of provider recommendation was reported in the mixed-gender studies but not in those primarily of female patients.

3.3 Key Question 2. What Is the Effectiveness of Interventions To Improve the Receipt of Clinical Preventive Services Among People With Disabilities?

3.3.1 Key Points

- Sixteen studies reported on the effectiveness of interventions to improve the receipt of clinical preventive services for people with disabilities, including eight studies of interventions directed at people with disabilities, two studies of interventions for clinicians, four studies of multicomponent interventions targeting both people with disabilities and clinicians, and two studies of health system-level interventions.
- Studies included people with physical disabilities (n=3), cognitive/intellectual/developmental disabilities (n=8), sensory disabilities (n=4), and serious mental illness (n=1).
- Eight studies assessed interventions to increase rates of breast cancer screening, including five RCTs that found educational and health advocacy interventions associated with increased screening in people with disabilities, although risk estimates were not consistently statistically significant.
- Cervical cancer screening rates were generally increased following general education and health advocacy interventions versus usual care or no intervention based on nine studies, including four RCTs. One NSRI specifically designed to increase cervical cancer screening rates in women with sensory disability found a large but imprecise effect on screening rates (relative risk [RR] 23, 95% confidence interval [CI] 3.18 to 166).
- Evidence from one before-after study of an educational intervention for people with cognitive/intellectual/developmental disabilities reported promising results, but only reported screening intent rather than actual screening uptake.
- Three RCTs and one cross-sectional study did not find interventions aimed at general health improvement to be associated with a difference in the proportion of people with disabilities who underwent blood pressure checks when compared with usual care or no intervention.
- An uncontrolled cohort study of a weight loss and health improvement intervention to reduce obesity-related morbidity, modified for people with cognitive disability, was associated with significant changes in body mass index (BMI) and exercise frequency at 9-week followup.

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

- Evidence on interventions to increase uptake of other clinical preventive services including depression screening, prediabetes/type 2 diabetes screening, and falls prevention is limited to one study each, with no clear effect of interventions for any preventive service.

3.3.2 Summary of Findings

We identified 16 studies^{86,95,105-118} that reported on the effectiveness of interventions to improve the receipt of clinical preventive services for people with disabilities. These included seven RCTs,¹⁰⁵⁻¹¹¹ seven NRSIs,^{86,95,112-116} and two cross-sectional studies.^{117,118} Studies included people with physical disabilities (n=3),^{86,108,111} cognitive/intellectual/developmental disabilities (n=8),^{109,110,112-114,116-118} sensory disabilities (n=4),^{95,106,107,115} and serious mental illness (n=1).¹⁰⁵ Studies assessed interventions to increase rates of breast cancer screening (n=8),^{86,105,106,109-111,115,118} cervical cancer screening (n=9),^{105,107,109-112,115,117,118} colorectal cancer screening (n=3),^{105,113,114} depression screening in adults (n=1),⁹⁵ screening for hypertension (n=4),^{105,109,110,118} screening for prediabetes/type 2 diabetes (n=1),¹¹⁸ prevention of falls (n=1),¹⁰⁸ and weight-loss to prevent obesity (n=3);^{109,110,116} seven of the studies assessed multiple clinical preventive services.^{105,109-111,115,117,118} All of the clinical preventive services were targeted towards adults; we identified no studies conducted in children or adolescents. Most studies were conducted in the United States (n=7; 44%) or the United Kingdom (n=5; 31%), with other studies from Australia (n=2), Canada (n=1), and Turkey (n=1).

Intervention characteristics are summarized in Table 13. Interventions were directed at people with disabilities in eight studies,^{105-108,111,112,114,116} interventions for clinicians in two studies,^{95,117} and multicomponent interventions targeting both people with disabilities and clinicians in four studies.^{109,110,113,118} Two studies assessed interventions aimed at system-level barriers.^{86,115} Among the studies, the duration of treatment ranged widely from a single session to 1 year. In 14 of the studies, interventions were focused on reducing barriers to preventive care uptake through appropriate education and/or increasing awareness for patients, caregivers, and or clinicians.^{95,105-114,116-118} Two other studies assessed interventions aimed at removing system-level barriers: one study assessed how provision of an American Sign Language (ASL) interpreter in primary care clinics affected preventive care uptake by D/deaf people,¹¹⁵ and one study aimed to remove barriers to breast cancer screening for women with disabilities through an open-door mammography clinic.⁸⁶

As described in the Methods, risk of bias was assessed using separate criteria for the RCTs and the NRSIs. Among the seven RCTs, two^{109,110} were judged to have low risk of bias. The remaining five RCTs^{105-108,111} were rated moderate risk of bias; common methodological limitations included unclear randomization and allocation concealment, and unclear or lack of blinding of outcome assessors. The NRSIs comprised a variety of study designs, including cohort studies, before-after studies, and case-control studies. One NRSI had few limitations and was judged to have a low risk of bias.¹¹² The remaining six NRSIs were rated moderate risk of bias, primarily due to missing details about baseline characteristics of study participants, loss to followup, and maintenance of comparable intervention groups.^{86,95,113-116} Risk of bias was not assessed for the two included cross-sectional studies.^{117,118}

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Table 13. Characteristics of interventions to improve the receipt of clinical preventive services among people with disabilities

Author, Year Country Study Design; N ^a	Disability Type(s) Addressed	Setting Duration of Intervention	Who Delivered the Intervention	Intervention Target	Intervention Name and/or Key Components
Bartels 2014 ¹⁰⁵ USA RCT; N=183	Serious mental illness	Community 1 year	Therapist and nurse within community mental health service	General preventive care	HOPES <ul style="list-style-type: none"> Weekly group social skills training and bimonthly community trips to practice social skills, facilitated by therapist Monthly meetings with nurse for evaluation and coordination of preventive care (screening/primary care appointments)
Biswas 2005 ¹¹² UK NRSI; N=160	Cognitive/ IDD	Community Single session	Nurse from community learning disability team	Cervical cancer screening	One-on-one counseling using a customized toolkit developed by Learning Disability Nurses
Bowler 2015 ¹¹³ UK NRSI; N=193	Cognitive/ IDD	Community Single session	Nurse from community learning disability team	Colorectal cancer screening	Patient- and clinician-targeted intervention <ul style="list-style-type: none"> “Easy read” screening letter for people with cognitive/IDD aimed at explaining colorectal cancer screening process Training pack for staff designed to decrease staff discomfort in discussions of colorectal cancer screening for people with cognitive/IDD
Chauhan 2010 ¹¹⁷ UK Cross-sectional; N=651	Cognitive/ IDD	General practice NR (unclear if single or multiple clinic visits)	Nurse or physician (at the discretion of the general practice)	General preventive care	Clinic use of routine health check (Cardiff Health Check), modified to accurately identify uptake in people with cognitive/IDD
Cumberland 2018 ^{106,119} USA RCT; N=209	Sensory	Community Single session	Deaf community members with health education experience, trained by research team members	Breast cancer screening	Breast cancer education program <ul style="list-style-type: none"> Culturally and linguistically sensitive education program emphasizing individual level Health Behavior Framework constructs Small group sessions via a brochure and specially produced video
Durbin 2019 ^{118,120} Canada Cross-sectional; N=276	Cognitive/ IDD	Multidisciplinary, primary care-based clinic (Family Health Team) Single clinic visit	Family Health Team members	General preventive care	Health Check <ul style="list-style-type: none"> Comprehensive health review for patients Staff support via point-of-care tools and education specific to primary care treatment for people with cognitive/IDD
Esmeray 2022 ¹⁰⁷ Turkey RCT N=156	Sensory	Community Single session	Unclear	Cervical cancer screening	Educational program <ul style="list-style-type: none"> Face-to-face program describing female anatomy, cervical cancer risk factors, incidence and symptoms Take home brochure and video reinforcing materials taught during face-to-face session Information card for study participants to facilitate screening and prevent communication difficulties during screening
Gray 2021 ¹¹⁴ UK NRSI; N=109	Cognitive/ IDD	Community Single session	Peer educator	Colorectal cancer screening	Peer-led interactive educational program, based on health belief model, on bowel health and colorectal cancer screening awareness

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Author, Year Country Study Design; N ^a	Disability Type(s) Addressed	Setting Duration of Intervention	Who Delivered the Intervention	Intervention Target	Intervention Name and/or Key Components
Kannan 2019 ¹⁰⁸ USA RCT; N=30	Physical	Online 8 weeks	NA (online, self-directed program)	Falls prevention	Free From Falls Online <ul style="list-style-type: none"> • Web-based fall prevention program with self- management strategies focus, weekly Webinar and downloadable materials • At-home video exercise program
Lennox 2007 ¹⁰⁹ Australia RCT; N=453	Cognitive/ IDD	Home and primary care Single session	Collaborative effort between patient, caregiver, and general physician	General preventive care	CHAP booklet <ul style="list-style-type: none"> • Medical history completed by patient's caregiver • Patient history and targeted examination by general practitioner • Collaborative health action plan (by caregiver and physician)
Lennox 2010 ¹¹⁰ Australia RCT; N=242	Cognitive/ IDD	Home and primary care Single session (CHAP) and 1 year (ASK)	Collaborative effort between patient, caregiver, and general physician	General preventive care	CHAP booklet (see Lennox 2007) ASK health diary <ul style="list-style-type: none"> • Designed for ongoing use in all medical consultations • 4 sections: "All About Me," "Health Advocacy Tips" for patients and caregivers; "For The Doctor," "Medical Records" for staff
MacKinney 1995 ¹¹⁵ USA NRSI; N=175	Sensory	Community-based primary care clinic Number of visits unclear	Trained ASL interpreter	General preventive care	Primary care provision of in-clinic ASL interpreters
Magasi 1995 ⁸⁶ USA NRSI; N=16 Year 1; N=31 Year 2	Physical	Community Single session	Community, research, and clinical collaborative team	Breast cancer screening	ScreenABLE Saturday Walk-in mammogram for women with disabilities, provided regardless of insurance and documentation status
Mann 2006 ¹¹⁶ USA NRSI; N=192	Cognitive/ IDD	Community 8 weeks	Community disability service staff, training/ support from study researchers	Weight loss to prevent obesity	Modified Steps to Your Health <ul style="list-style-type: none"> • Health promotion program with simplified language, targeting: nutrition, exercise, stress reduction, communication, motivation to change, and relapse prevention • Classes include participatory activities and discussions.
Nollett 2020 ⁹⁵ UK NRSI; N=40	Sensory	Specialty care Single session	Low Vision Service Wales, low vision clinicians/providers	Depression screening	Low Vision Service Wales training program to deliver 2-question depression screening to low vision patients (one online lecture and one face to face workshop)
Peterson 2012 ¹¹¹ USA RCT; N=211	Physical	Community 6 months	Women with mobility disabilities	Breast and cervical cancer screening	PATHS <ul style="list-style-type: none"> • Small-group format and monthly structured telephone support • Education components: screening recommendations, procedures, and benefits; overcoming barriers; skills for communicating with physicians; setting goals; and initiating change

Abbreviations: ASK = advocacy skills training; ASL = American Sign Language; CHAP = Comprehensive Health Assessment Program; HOPES = Helping Older People Experience Success; IDD = intellectual and/or developmental disabilities; NA = not applicable; NR = not reported; NRSI = nonrandomized study of interventions; PATHS = Promoting Access to Health Services; RCT = randomized controlled trial

^aRepresents total enrolled population

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

3.3.2.1 Breast Cancer Screening

Five RCTs,^{105,106,109-111} two NRSIs,^{86,115} and one cross-sectional study¹¹⁸ assessed interventions to increase rates of breast cancer screening (Table 14).

3.3.2.1.1 Physical Disability

One RCT,¹¹¹ designed to increase breast and cervical cancer screening, compared the effect of an educational and behavioral intervention with usual care on mammogram uptake in 125 women with physical disability (mean age 52 years) who had not undergone a mammogram in the 2 years preceding the study. Most women in the study used a mobility aid (78%), and had a co-occurring cognitive (56%) and/or sensory (14%) disability. Over half the population (54%) had the equivalent of a high school diploma or less, 69 percent had an annual income of less than \$10,000 (equivalent to \$13,690 in 2024),¹²¹ and 9 percent were employed. The population was predominantly White race (66%), followed by Black (14%) and Hispanic (11%) women. The intervention group received Promoting Access to Health Services (PATHS), which included a small-group educational workshop on the importance of preventive services followed by structured telephone support for 6 months, while the control group received general health promotion materials. After 6-month followup, 49 percent (29/59) of women who received the PATHS intervention and 42 percent of controls (28/66) reported receipt of a mammogram, resulting in a small intervention effect that was not statistically significant (RR 1.16, 95% CI 0.79 to 1.70). Results of this study were limited due to the relatively short duration of followup and a high attrition rate (26%) in the intervention group.

The only other evidence on reducing barriers to breast cancer screening for women with physical disabilities comes from a noncomparative study that described the development and initial implementation of a community-based intervention that provided barrier-free mammograms to women with disabilities (ScreenABLE Saturday) to increase breast cancer screening.⁸⁶ Similar mammogram uptake was reported during the first (19%) and second year of implementation (16%), although overall ScreenABLE Saturday attendance increased from 16 participants in the first year to 31 participants in the second year.

3.3.2.1.2 Cognitive/Intellectual/Developmental Disability

Two RCTs^{109,110} and one cross-sectional study¹¹⁸ reported mammography uptake in women with cognitive/intellectual/developmental disabilities. The interventions in all three studies were targeted at general health promotion that included mammography, but none focused specifically on breast cancer screening.

The most robust evidence comes from a cluster RCT comparing use of a Comprehensive Health Assessment Program (CHAP) versus usual care.¹⁰⁹ The study enrolled a total of 453 participants. Of these, 186 comprised the subgroup of women who met criteria for breast cancer screening; patient characteristics for this subgroup were not reported. The CHAP intervention consisted of a booklet designed for use by patients/caregivers and clinicians. Prior to a clinic visit, patients/caregivers completed a medical history section of the booklet. At the clinic visit, the booklet was used by the physician to review history, conduct a targeted exam, and develop a health action plan. After 1-year followup, the proportion of woman who received a mammogram was 15 percent (13/89) in the CHAP group versus 4 percent (4/97) in the usual care group (RR 3.5, 95% CI 1.1 to 1.2). A second, smaller cluster RCT¹¹⁰ conducted by the same research group compared CHAP with a health diary designed for ongoing use (Advocacy Skills Training [ASK]) and usual care. The study employed a factorial design, comparing CHAP versus no CHAP and

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

ASK versus no ASK, but did not directly compare either intervention alone to usual care. Although the study enrolled 272 participants, only 14 women met criteria for mammography. Of these 14 women, two underwent a mammogram, resulting in no differences between the comparison groups. The third study (n=40) used a cross-sectional design and compared women who underwent a comprehensive health review (Health Check) with those who had no comprehensive review. The study found the Health Check associated with a small, nonsignificant increase in the likelihood of receiving a mammogram (63% [17/27] vs. 54% [7/13]; adjusted odds ratio [OR] 1.3 [0.3 to 5.1]).

3.3.2.1.3 Sensory Disability

One RCT¹⁰⁶ and one case-control study¹¹⁵ reported on interventions to increase breast cancer screening in women with sensory disability; both studies focused on D/deaf women.

The RCT enrolled 182 women, 73 percent of whom had no more than a high-school level of education. The majority (68%) of the population had an annual income \leq \$20,000 (equivalent to \$25,039 in 2024),¹²¹ 9 percent reported working either full- or part-time, and 6 percent were uninsured. Race/ethnicity of the study participants was reported as 52 percent White, 22 percent Hispanic, 12 percent Black, 6 percent Asian or Pacific Islander, and 8 percent multiracial. Women enrolled in the intervention group (n=90) received a specialized education program specifically developed to be culturally and linguistically relevant for the study population. Educational content was delivered through a brochure and freely available video, and focused on potential knowledge gaps, patient-provider communication, health beliefs, and barriers/supports to obtaining breast cancer screening. The control group (n=92) included women who did not receive the specialized education program. After 1-year followup, rates of mammography were found to be similar in both the intervention (66% [58/88]) and control (63% [52/83]) groups, resulting in nonsignificant risk estimate (RR 1.05, 95% CI 0.84 to 1.32).

The case-control study focused on how provision of an ASL interpreter during clinical visits affected breast cancer screening uptake.¹¹⁵ The study found that having an ASL interpreter available was associated with a large increase in screening likelihood (OR 6.0, 95% CI 1.1 to 37.0). Although this result is promising, the study has numerous methodological limitations which limit interpretability of this finding. The controls in the study were described as “friends” of the cases who were referred to the study by their case friend, and no attempt was made to adjust for any baseline confounding factors. As a result, there were numerous significant differences between groups at baseline, most notably cases were more likely to have visited a doctor in the year preceding the study compared to the controls (5.4 vs. 3.7 visits/year; $p < 0.001$), which potentially skewed the results in favor of the cases. In addition, 42 women were reported as being eligible for breast cancer screening, but the number of these who were cases and controls and the number who underwent screening is neither reported nor calculable.

3.3.2.1.4 Serious Mental Illness

One RCT¹⁰⁵ compared Helping Older People Experience Success (HOPES) with usual care in people with serious mental illness. HOPES was a 1-year multicomponent intervention that included weekly small group social skills training and monthly preventive health meetings with a nurse, who worked with participants to set preventive care goals and to facilitate screening. The study enrolled 183 adults aged 50 years and older with schizophrenia, schizoaffective disorder, bipolar disorder, or major depressive disorder according to Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition criteria. The majority of the sample was White (85%) and non-

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Hispanic (93%). Of these, 103 women met criteria for breast cancer screening. The study found women randomized to HOPES significantly more likely than those in the usual care group to have had at least one mammogram during the 3-year followup (85% [45/53] vs. 67% [34/51]; RR 1.27, 95% CI 1.02 to 1.59).

Table 14. Studies of interventions to improve the receipt of breast cancer screening

Disability	Author, Year Study Design Duration of Followup	Sample Size^a Screening Indication	Intervention Comparator	Results
Physical disability	Peterson, 2012 ¹¹¹ RCT 6 months	N=125 Mean age: 52 years Screening conducted in women not current on USPSTF (2007) recommended screening	PATHS vs. general health promotion materials	Mammogram conducted: 49% (29/59) vs. 42% (28/66); RR 1.16 (95% CI 0.79 to 1.70)
	Magasi, 2019 ⁸⁶ Descriptive 2 years	N=47 Mean age NR Screening indication NR	ScreenABLE Saturday (walk- in mammogram service) vs. NA	Mammogram conducted as part of ScreenABLE Saturday: Year 1: 19% (3/16) Year 2: 16% (5/31)
Cognitive/ intellectual/ developmental disability	Lennox, 2007 ¹⁰⁹ Cluster RCT 1 year	N=186 Mean age: 39 years Screening conducted where “clinically indicated and according to national guidelines”	CHAP vs. usual care	Mammogram conducted: 15% (13/89) vs. 4% (4/97); RR 3.5 (95% CI 1.1 to 12)
	Lennox, 2010 ¹¹⁰ Cluster RCT 1 year	N=14 Mean age: 36 years Screening conducted in women in “the recommended age range”	CHAP vs. no CHAP ^b	Mammogram conducted: 0% (0/8) vs. 33% (2/6); p=0.20 (adjusted OR not reported)
	Lennox, 2010 ¹¹⁰ Cluster RCT 1 year	N=14 Mean age: 36 years Screening conducted in women in “the recommended age range”	ASK vs. no ASK ^c	Mammogram conducted: 13% (1/8) vs. 17% (1/6); adjusted OR 1.1 (95% CI 0.1 to 11.3)
	Durbin, 2019 ¹¹⁸ Cross-sectional NA	N=40 Mean age: NR Screening conducted in women ages 50 to 74 years according to Canadian guidelines (2011)	Health check vs. no health check	Mammogram conducted: 63% (17/27) vs. 54% (7/13); adjusted OR 1.3 (0.3 to 5.1)
Sensory disability	Cumberland, 2018 ¹⁰⁶ RCT 1 year	N=182 Mean age: NR; 33% <50 years; 23% 50-59 years; 30% 60-75 years; 15% >75 years Screening conducted in all enrolled women (including those >75 years)	Specialized education program vs. no specialized education program	Mammogram conducted: 66% (58/88) vs. 63% (52/83); RR 1.05 (95% CI 0.84 to 1.32) Change in screening from baseline: 20% (18/88) vs. 27% (22/83); RR 0.77 (95% CI 0.45 to 1.33)
	MacKinney, 1995 ¹¹⁵ Case-control Followup NR	N=42 Mean age: 46 years Screening indication NR	Cases: enrolled in primary care which provided ASL interpreters vs. controls: no primary care provision of ASL interpreters	Mammogram conducted: 87% (n/N NR) vs. 53% (n/N NR); OR 6.0 (95% CI 1.1 to 37)

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Disability	Author, Year Study Design Duration of Followup	Sample Size ^a Screening Indication	Intervention Comparator	Results
Serious mental illness	Bartels, 2014 ¹⁰⁵ RCT 3 years	N=104 Mean age: 60 years Screening conducted according to USPSTF (2013) recommendations	HOPES vs. usual care	Mammogram conducted: 85% (45/53) vs. 67% (34/51); RR 1.27 (95% CI 1.02 to 1.59)

Abbreviations: ASL = American Sign Language; ASK = Advocacy Skills Training; CHAP = Comprehensive Health Assessment Program; CI = confidence interval; HOPES = Helping Older People Experience Success; NA = not applicable; NNT = number needed to treat; NR = not reported; OR = odds ratio; PATHS = Promoting Access to Health Services; RCT = randomized controlled trial; RR = relative risk; USPSTF = United States Preventive Services Task Force

^a Sample size for breast cancer screening only; several studies assessed multiple clinical preventive services. Mean age was reported for entire population (not limited to breast cancer screening population).

^b The CHAP group included people randomized to CHAP or CHAP + ASK; The No CHAP group included those randomized to ASK or usual care

^c The ASK group included people randomized to ASK or CHAP + ASK; The No ASK group included those randomized to CHAP or usual care

3.3.2.2 Cervical Cancer Screening

Nine studies, including four RCTs,^{105,109-111} three NRSIs,^{107,112,115} and two cross-sectional studies^{107,117,118} assessed interventions to increase rates of cervical cancer screening (as Pap testing), six^{105,109-111,115,118} of which are discussed in the breast cancer section, above (Table 15).

3.3.2.2.1 Physical Disability

The RCT described in Section 3.3.2.1.1 comparing the educational workshop and telephone support intervention PATHS with general health promotion included 71 women with physical disability who were eligible for cervical cancer screening.¹¹¹ At 6-month followup, the rate of Pap testing was 61 percent (25/41) in the PATHS group and 27 percent (8/30) in the control group (RR 2.20, 95% CI 1.15 to 4.19).

3.3.2.2.2 Cognitive/Intellectual/Developmental Disability

Two RCTs,^{109,110} one before-after study,¹¹² and two cross-sectional studies^{117,118} reported on interventions to increase cervical cancer screening rates in women with cognitive/intellectual/developmental disabilities.

One RCT, described in Section 3.3.2.1.2, compared CHAP versus usual care.¹⁰⁹ The study included 200 women eligible for cervical cancer screening. At 1-year followup, screening uptake was low in both the intervention (16% [13/93]) and control (2% [2/107]) groups, resulting in a large but imprecise risk estimate favoring CHAP (RR 7.9, 95% CI 1.8 to 35). The second RCT, conducted by the same researchers, compared CHAP with no CHAP and ASK with no ASK. As with the other RCT, screening uptake at 1 year was low across all groups. For CHAP versus no CHAP, rates of Pap testing were 6 percent (3/48) and 8 percent (4/56), with no clear difference between groups (adjusted OR 0.9, 95% CI 0.2 to 4.1). When comparing ASK with no ASK, cervical cancer screening rates were significantly lower in the ASK group (2% [1/49] vs. 12% [6/55]; adjusted OR 0.2, 95% CI 0.0 to 1.0). Due to the factorial design used in this study, interpretation of these results is difficult, as both control groups included some people who had received an active intervention.

The effect of one-on-one counseling designed to increase cervical cancer screening uptake was assessed in a before-after study of 160 women with learning disabilities.¹¹² Prior to the intervention, 16 percent (26/160) women reported a prior Pap test, which increased to 22 percent

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

(35/160) following the intervention (RR 1.35, 95% CI 0.85 to 2.13). An additional eight women (43/160) had provided consent and intended to undergo cervical cancer screening following the counseling intervention, but were unable to physically complete the screening.

Two cross-sectional studies assessed the effect of an enhanced health check on cervical cancer screening rates.^{117,118} There were some differences between the health check interventions. One study involved the addition of health check measures relevant to people with intellectual disabilities (e.g., assessment of feeding, bladder, and bowel function) to standard health check measures during clinic visits.¹¹⁷ That study found that women who underwent the modified health check were more likely to have undergone cervical cancer screening than women who had standard health checks (86% [24/28] vs. 56% [95/169]; RR 1.52, 95% CI 1.25 to 1.87). The study was conducted in the United Kingdom, where general practice clinics have a financial incentive to conduct health checks through the National Health Service Quality and Outcomes Framework,¹²² which may help to explain the relatively high screening uptake in both groups compared to those in other studies. In the second study,¹¹⁸ people with cognitive/intellectual/developmental disabilities were proactively identified and solicited by participating clinical practices to attend a health check, and clinical staff were supported with additional training and education to help them effectively work with people with cognitive/intellectual/developmental disabilities. That study found similar rates for screening uptake in the health check (34% [23/68]) and control (32% [16/50]) groups (adjusted OR 1.0, 95% CI 0.5 to 2.2).

3.3.2.2.3 Sensory Disability

One nonrandomized trial¹⁰⁷ and one case-control study¹¹⁵ assessed interventions to increase cervical cancer screening rates in women with sensory disability; both studies included women who were deaf and/or hearing impaired. The nonrandomized trial (N=156) compared an educational intervention with usual care (no specialized education). The educational intervention was designed specifically for women with hearing impairments, with the intent of increasing their knowledge about cervical health, Pap testing, and the need for screening. The education piece included both face-to-face training and a take-home brochure and video. To potentially ease communication difficulties, following the education piece the intervention group also received a card that study participants could bring to their Pap test appointment that included their personal information and hearing status. The study found the educational intervention associated with a large but imprecise effect on cervical cancer screening when compared with usual care (29.5% [23/78] vs. 1.3% [1/78]; RR 23, 95% CI 3.18 to 166). The case-control study involved provision of ASL interpreters during clinic visits.¹¹⁵ Although the study found that having an interpreter available was associated with higher rates of cervical cancer screening (90% vs. 72%; OR 3.5, 95% CI 1.0 to 13), the study had numerous methodological limitations (described in Section 3.3.2.1.3) and this finding should be interpreted cautiously.

3.3.2.2.4 Serious Mental Illness

One RCT¹⁰⁵ that included 104 women with serious mental illness who were eligible for cervical cancer screening compared weekly social skills training plus monthly preventive care meetings (HOPES) with usual care (see Section 3.3.2.1.4). At 3-year followup, women in the HOPES group were more likely to have undergone cervical cancer screening compared with those randomized to usual care (77% [41/53] vs. 49% [25/51], RR 1.58, 95% CI 1.15 to 2.16).

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Table 15. Studies of interventions to improve the receipt of cervical cancer screening

Disability	Author, Year Study Design Duration of Followup	Sample Size^a Mean Age	Intervention Comparator	Results
Physical disability	Peterson, 2012 ¹¹¹ RCT 6 months	N=71 Mean age: 52 years Screening conducted in women not current on USPSTF (2007) recommended screening	PATHS vs. general health promotion materials	Pap test conducted: 61% (25/41) vs. 27% (8/30); RR 2.20 (95% CI 1.15 to 4.19)
Cognitive/ intellectual/ developmental disability	Lennox, 2007 ¹⁰⁹ Cluster RCT 1 year	N=200 Mean age: 39 years Screening conducted where "clinically indicated and according to national guidelines"	CHAP vs. usual care	Pap test conducted: 16% (13/93) vs. 2% (2/107); RR 7.9 (95% CI 1.8 to 35)
	Lennox, 2010 ¹¹⁰ Cluster RCT 1 year	N=104 Mean age: 36 years Screening conducted in women in "the recommended age range"	CHAP vs. no CHAP ^b	Pap test conducted: 6% (3/48) vs. 8% (4/56); adjusted OR 0.9 (95% CI 0.2 to 4.1)
	Lennox, 2010 ¹¹⁰ Cluster RCT 1 year	N=104 Mean age: 36 years Screening conducted in women in "the recommended age range"	ASK vs. no ASK ^c	Pap test conducted: 2% (1/49) vs. 12% (6/55); adjusted OR 0.2 (95% CI 0.0 to 1.0)
	Biswas 2005 ¹¹² Before-after	N=160 Mean age NR Screening conducted according to national guidelines (UK, 2000)	One-on-one counseling, after vs. one-on-one counseling, before	Pap test conducted: 22% (35/160) vs. 16% (26/160) vs.; RR 1.35 (95% CI 0.85 to 2.13) Pap test intended ^d : 27% (43/160) vs. 16% (26/160); RR 1.65 (95% CI 1.07 to 2.55)
	Chauhan 2010 ¹¹⁷ Cross-sectional NA	N=197 Mean age: 52 years Screening conducted to according to UK Quality and Outcomes Framework health check measures	Modified Cardiff Health Check vs. no Modified Cardiff Health Check	Pap test conducted: 86% (24/28) vs. 56% (95/169); RR 1.52 (95% CI 1.25 to 1.87)
	Durbin, 2019 ¹¹⁸ Cross-sectional NA	N=118 Mean age: NR Screening conducted in women age 21 to 69 years according to Canadian guidelines (2011)	Health check vs. no health check	Pap test conducted: 34% (23/68) vs. 32% (16/50); adjusted OR 1.0 (95% CI 0.5 to 2.2)
Sensory disability	Esmeray 2022 ¹⁰⁷ Nonrandomized trial	N=156 Mean age: 50 years Screening indication NR	Educational intervention vs. waitlist	Pap test conducted: 29.5% (23/78) vs. 1.3% (1/78); RR 23 (95% CI 3.18 to 166)
	MacKinney, 1995 ¹¹⁵ Case-control Followup NR	N=93 Mean age: 46 years Screening indication NR	Cases: enrolled in primary care which provided ASL interpreters vs. controls: no primary care provision of ASL interpreters	Pap test conducted: 90% (n/N NR) vs. 72% (n/N NR); OR 3.5 (95% CI 1.0 to 13)

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Disability	Author, Year Study Design Duration of Followup	Sample Size ^a Mean Age	Intervention Comparator	Results
Serious mental illness	Bartels, 2014 ¹⁰⁵ RCT 3 years	N=104 Mean age: 60 years Screening conducted according to USPSTF (2013) recommendations	HOPES vs. usual care	Pap test conducted: 77% (41/53) vs. 49% (25/51); RR 1.58 (95% CI 1.15 to 2.16)

Abbreviations: ASL = American Sign Language; ASK = Advocacy Skills Training; CHAP = Comprehensive Health Assessment Program; CI = confidence interval; HOPES = Helping Older People Experience Success; NA = not applicable; NR = not reported; OR = odds ratio; PATHS = Promoting Access to Health Services; RCT = randomized controlled trial; RR = relative risk; UK = United Kingdom; USPSTF = United States Preventive Services Task Force

^a Sample size for cervical cancer screening only; several studies assessed multiple clinical preventive services. Mean age was reported for entire population (not limited to cervical cancer screening population).

^b The CHAP group included people randomized to CHAP or CHAP + ASK; The No CHAP group included those randomized to ASK or usual care

^c The ASK group included people randomized to ASK or CHAP + ASK; The No ASK group included those randomized to CHAP or usual care

^d Includes 8 women who consented to screening but were unable to physically complete screening

3.3.2.3 Colorectal Cancer Screening

One RCT¹⁰⁵ and two NRSIs^{113,114} evaluated interventions to increase colorectal cancer screening in people with disabilities (Table 16).

3.3.2.3.1 Cognitive/Intellectual/Developmental Disability

Two studies of interventions to increase colorectal cancer screening in people with cognitive/intellectual/developmental disabilities provided limited evidence on effectiveness.^{113,114} Both studies were specifically designed to increase colorectal cancer screening uptake. One uncontrolled cohort study identified 239 community-based people with cognitive/intellectual/developmental disabilities who were eligible for colorectal cancer screening but had not undergone screening.¹¹³ People with cognitive/intellectual/developmental disabilities received specially written, “easy read” screening letters designed to encourage their participation in screening. Clinic staff also received special training to increase confidence and decrease potential embarrassment surrounding screening conversations. After 12 weeks, the study found 61 percent (117/239) of the eligible population had undergone screening, resulting in a screening rate that was similar to the national average at the time. The second study used a before-after design, and delivered a 2-hour, interactive education session to 137 people with cognitive/intellectual/developmental disabilities on the importance of colorectal cancer screening.¹¹⁴ The study found a substantial increase in the proportion of participants who said they intended to participate in screening immediately following the intervention versus before the intervention (99% vs. 39%; RR 2.55; 95% CI 2.06 to 3.15), but actual rates of colorectal cancer screening uptake were not reported.

3.3.2.3.2 Serious Mental Illness

The previously described RCT (Section 3.3.2.1.4) comparing the HOPES intervention with usual care assessed colorectal cancer screening rates in 177 people with serious mental illness.¹⁰⁵ The trial found similar rates of colorectal cancer screening in both the intervention and control groups at 3-year followup (82% [71/87] vs. 84% [76/90]; RR 0.97, 95% CI 0.85 to 1.10).

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

Table 16. Studies of interventions to improve the receipt of colorectal cancer screening

Disability	Author, Year Study Design Duration of Followup	Sample Size Mean Age	Intervention Comparator	Results
Cognitive/ intellectual/ developmental disability	Bowler 2015 ¹¹³ Prospective, uncontrolled cohort 12 weeks	N=239 Mean age NR Screening conducted according to National Bowel Screening Programme (UK)	Easy-read screening letter for people with cognitive/IDD and clinic staff training vs. NA	Colorectal cancer screening: 61% (117/239)
	Gray 2021 ¹¹⁴ Before-after Immediate post- intervention	N=137 Mean age NR; 86% <50 years, 14% >50 years Screening conducted according to Public Health Scotland (2020) guidelines	2-hour interactive education session, After vs. 2-hour interactive education session, Before	Intent to participate in colorectal cancer screening: 99% (135/137) vs. 39% (53/137); RR 2.55 (95% CI 2.06 to 3.15)
Serious mental illness	Bartels, 2014 ¹⁰⁵ RCT 3 years	N=177 Mean age: 60 years Screening conducted according to USPSTF (2013) recommendations	HOPES vs. usual care	Colorectal cancer screening: 82% (71/87) vs. 84% (76/90); RR 0.97 (95% CI 0.85 to 1.10)

Abbreviations: CI = confidence interval; HOPES = Helping Older People Experience Success; IDD = intellectual/developmental disability; NA = not applicable; NR = not reported; RCT = randomized controlled trial; RR = relative risk; UK = United Kingdom; USPSTF = United States Preventive Services Task Force

3.3.2.4 Depression Screening in Adults

3.3.2.4.1 Sensory Disability

One before-after study assessed the effect of an intervention designed to increase rates of depression screening in people with low vision, defined in this study as vision impairment that cannot be fully corrected with glasses, contact lenses or medical intervention and causes functional impairment.⁹⁵ The study followed the Welsh government recommendation that vision care providers should screen potential high-risk groups for depression. The study included 40 vision care providers who underwent a specialized training session that included an online lecture and a face-to-face workshop, aimed at educating practitioners about depression screening guidelines and practices. The screening intervention consisted of two questions asked of people with low vision about feelings of depression and hopelessness in the preceding month. The proportion of practitioners who reported they conducted depression screening more than half of the time during vision care visits increased from 7.5 percent (3/40) at baseline to 62.5 percent (15/40) 6 months after the intervention.

3.3.2.5 Hypertension Screening in Adults

Three RCTs^{105,109,110} and one cross-sectional study¹¹⁸ assessed interventions that included reporting of blood pressure measurement in people with disabilities (Table 17).

3.3.2.5.1 Cognitive/Intellectual/Developmental Disability

Two RCTs^{109,110} and one cross-sectional study¹¹⁸ included blood pressure measurement as part of an intervention designed to enhance general preventive care uptake in people with intellectual disability. As described in Section 3.3.2.1.2., one of the trials compared the CHAP with usual care (N=453)¹⁰⁹ and the other compared CHAP (n=123) with no CHAP (n=119), and

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

the ASK health diary (n=121) with no ASK (n=121). In both trials, blood pressure screening rates ranged from 45 to 61 percent across intervention groups. Slightly higher rates of blood pressure screening were consistently found in the intervention groups relative to the control groups, though none of the between-group differences reached statistical significance (Table 17). The cross-sectional study reported overall higher rates of blood pressure screening, both in the comprehensive Health Check intervention group (91% [126/139]) and in the control group who did not have a comprehensive Health Check (64% [88/137]). After adjustment for the size of the primary care practice, people in the Health Check group were significantly more likely to have blood pressure screening (adjusted OR 5.5, 95% CI 3.1 to 9.8).

3.3.2.5.2 Serious Mental Illness

One RCT (n=177) of a year-long intervention that included weekly social skills training and monthly preventive care meetings for people with serious mental illness reported high uptake of blood pressure screening at 3-year followup.¹⁰⁵ In the study, nearly all the people included in both the intervention (100% [87/87]) and control (99% [89/90]) groups had undergone screening (RR 1.01, 95% CI 0.98 to 1.04).

Table 17. Studies of interventions to improve the receipt of hypertension screening

Disability	Author, Year Study Design Duration of Followup	Sample Size Mean Age	Intervention Comparator	Results
Cognitive/ intellectual/ developmental disability	Lennox, 2007 ¹⁰⁹ Cluster RCT 1 year	N=453 Mean age: 39 years Screening conducted where “clinically indicated and according to national guidelines”	CHAP vs. Usual care	Blood pressure recorded: 50% (117/234) vs. 45% (99/219); RR 1.1 (95% CI 0.8 to 1.5)
	Lennox, 2010 ¹¹⁰ Cluster RCT 1 year	N=242 Mean age: 36 years Screening conducted using general health promotion parameters	CHAP vs. No CHAP ^a	Blood pressure recorded: 59% (72/123) vs. 50% (60/119); adjusted OR 1.5 (95% CI 0.8 to 2.9)
	Lennox, 2010 ¹¹⁰ Cluster RCT 1 year	N=242 Mean age: 36 years Screening conducted using general health promotion parameters	ASK vs. No ASK ^b	Blood pressure recorded: 61% (71/121) vs. 48% (58/121); adjusted OR 1.6 (95% CI 0.8 to 3.3)
	Durbin, 2019 ¹¹⁸ Cross-sectional NA	N=276 Mean age NR Screening conducted in all enrolled adults according to Canadian guidelines (2011)	Health Check vs. No Health Check	Blood pressure recorded: 91% (126/139) vs. 64% (88/137; adjusted OR 5.5 (95% CI 3.1 to 9.8)
Serious mental illness	Bartels, 2014 ¹⁰⁵ RCT 3 years	N=177 Mean age: 60 years Screening conducted according to USPSTF (2013) recommendations	HOPES vs. Usual care	Blood pressure screening: 100% (87/87) vs. 99% (89/90); RR 1.01 (95% CI 0.98 to 1.04)

Abbreviations: ASK = Advocacy Skills Training; CHAP = Comprehensive Health Assessment Program; CI = confidence interval; HOPES = Helping Older People Experience Success; NA = not applicable; NR = not reported; OR = odds ratio; RCT = randomized controlled trial; RR = relative risk; USPSTF = United States Preventive Services Task Force

^a The CHAP group included people randomized to CHAP or CHAP + ASK; The No CHAP group included those randomized to ASK or usual care

^b The ASK group included people randomized to ASK or CHAP + ASK; The No ASK group included those randomized to CHAP or usual care

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

3.3.2.6 Prediabetes/Type 2 Diabetes Screening

3.3.2.6.1 Cognitive/Intellectual/Developmental Disability

One cross-sectional study comparing a comprehensive Health Check with no Health Check reported on screening for type 2 diabetes using HbA1c testing in people with cognitive/intellectual/developmental disabilities.¹¹⁸ The study tested anyone with a BMI >29 kg/m² or over age 39 years according to Canadian Diabetes Association guidelines, which differ from United States Preventive Services Task Force (USPSTF) guidelines⁵⁰ in testing everyone over age 39. Among 82 people meeting criteria for testing in this study, 80 percent (37/46) of the intervention group and 61 percent (22/36) of the control group received HbA1c testing (adjusted OR 2.5, 95% CI 0.9 to 6.8), suggesting that the Health Check was associated with a large increase in testing likelihood compared with no Health Check.

3.3.2.7 Falls Prevention

3.3.2.7.1 Physical Disability

We did not identify any studies of fall prevention in people with disabilities ≥65 years at risk of falls, which is the age range supported by the USPSTF recommendation (Appendix A, Table A-2). However, one potentially informative RCT compared use of a falls prevention intervention with no intervention in people with physical disability with a mean age of 56 years.¹⁰⁸ The study randomized 30 people with multiple sclerosis and a 2-month history of ≥2 falls to Free From Falls Online (n=15) or control (n=15). The study participants were 70 percent female and 97 percent White race. The intervention was an 8-week Web-based adaptation of an in-person program (Free From Falls) that included weekly Webinars on fall prevention strategies, downloadable materials that could be printed or viewed online, and an exercise video. The Web-based content was specifically designed to minimize barriers for people with multiple sclerosis. Although study participants generally expressed satisfaction with the intervention, at 5-month followup there was no clear difference between groups in incidence of falls (93% [13/14] vs. 100% [15/15]; RR 0.93, 95% CI 0.77 to 1.12).

3.3.2.8 Weight Loss To Prevent Obesity-Related Morbidity and Mortality

3.3.2.8.1 Cognitive/Intellectual/Developmental Disability

One RCT¹⁰⁹ and one uncontrolled cohort study¹¹⁶ reported on interventions to promote weight loss to prevent obesity-related morbidity and mortality in people with cognitive/intellectual/developmental disabilities (Table 18). The trial¹⁰⁹ comparing CHAP with usual care (described in Section 3.3.2.1.2) reported on the number of obese people who received a weight management plan from their physician, finding that people in the CHAP group were more likely to have a weight management plan (41% [7/17]) than those in the usual care group (25% [1/4]). This finding is limited by the small numbers of patients in each group, and the resulting risk estimate was not statistically significant (RR 1.65, 95% CI 0.28 to 9.86).

The cohort study¹¹⁶ was designed to assess a health promotion program (Steps to Your Health) that was adapted for people with cognitive disability. The study included 192 people (mean age 39 years; 67% female) with a BMI ≥25 kg/m² and cognitive disability ranging from mild to severe. Fifty-two percent of the population was White race, and 48 percent were Black.

3.3.2 Results, Key Question 2. Effectiveness of Interventions, Summary of Findings

From baseline to 9-week followup, the study found a mean change in BMI of -0.31 kg/m^2 ($p \leq 0.001$) and an increase in exercise frequency of 1.39 times per week ($p \leq 0.001$). Subgroup analysis found BMI mean change was higher in women versus men (-0.39 vs. -0.16) and Black participants versus White participants (-0.44 vs. -0.19), but tests for interaction were not reported. When stratified according to cognitive disability type, people with Down Syndrome (7% of the study population) had a mean gain in BMI (0.18 kg/m^2) while those without Down Syndrome had a BMI loss of -0.35 kg/m^2 . Regression analysis of predictors of a loss of BMI 0.81 kg/m^2 (about 2.3 kg) found a significant effect for women (adjusted OR 2.32, 95% CI 1.03 to 5.21) but not for other factors including Black race (adjusted OR 1.28, 95% CI 0.63 to 2.62), age (adjusted OR 1.01, 95% CI 0.97 to 1.04), IQ (adjusted OR 1.00, 95% CI 0.97 to 1.03), or change in exercise frequency (adjusted OR 1.04, 95% CI 0.96 to 1.13).

Table 18. Interventions to promote weight loss to prevent obesity-related morbidity and mortality

Disability	Author, Year Study Design Duration of Followup	Sample Size Mean Age	Intervention Comparator	Results
Cognitive/ intellectual/ developmental disability	Lennox, 2007 ¹⁰⁹ Cluster RCT 1 year	N=21 Mean age: 39 years Screening conducted where “clinically indicated and according to national guidelines”	CHAP vs. Usual care	Weight management plan: 41% (7/17) vs. 25% (1/4); RR 1.65 (95% CI 0.28 to 9.86)
	Mann 2006 ¹¹⁶ Uncontrolled cohort 9 weeks	N=192 Mean age: 39 years Intervention delivered to those with a BMI ≥ 25 kg/m^2 at baseline	Modified Steps to Your Health, baseline vs. Modified Steps to Your Health, followup	BMI, baseline vs. followup: 35.38 (SD 6.85) vs. 35.07 (SD 6.59); mean change -0.31 ($p \leq 0.001$) Exercise frequency (times/week), baseline vs. followup: 3.24 (SD 3.93) vs. 4.62 (SD 1.39); mean change 1.39 ($p \leq 0.001$)

Abbreviations: ASK = Advocacy Skills Training; BMI = body mass index; CHAP = Comprehensive Health Assessment Program; CI = confidence interval; RCT = randomized controlled trial; RR = relative risk; SD = standard deviation

3.4 – 3.5 Results, Key Question 3. Characteristics of Interventions and Key Question 4. Harms of Interventions That Mitigate Barriers to Clinical Preventive Services

3.4 Key Question 3. What Are the Characteristics and/or Components of Interventions That Contribute to Their Effectiveness (or Lack of Effectiveness) in Mitigating Barriers to the Receipt of Clinical Preventive Services Among People With Disabilities?

Evidence on how intervention characteristics contribute to effectiveness was available from two studies^{115,116} and was very limited. The previously described uncontrolled study of an intervention to promote weight loss in people with BMI $\geq 25\text{kg/m}^2$ and cognitive disability found people who attended all eight of the intervention sessions had a greater change in BMI compared with those who attended ≤ 7 sessions (-0.55 vs. -0.11 kg/m^2 ; $p=\text{NR}$).¹¹⁶ A case-control study¹¹⁵ that reported on screening uptake when D/deaf people had access to an ASL interpreter during clinic visits found that satisfaction with patient-provider communication was associated with increased breast cancer ($p=0.01$) and cervical cancer ($p=0.04$) screening.

3.5 Key Question 4. What Are the Harms of Intervention Programs to Mitigate Barriers to the Receipt of Clinical Preventive Services Among People With Disabilities?

Harms of interventions were generally not reported. One RCT¹¹⁰ narratively reported no adverse effects associated with the CHAP. The same study reported that participants randomized to ASK were significantly less likely to have a physician-assigned weight management plan compared to those randomized to no ASK (10% [12/121] vs. 27% [22/121]; OR 0.4, 95% CI 0.2 to 0.7). Study investigators deemed this a chance finding and not directly related to the intervention. No other studies reported harms.

4. Discussion

4.1 Key Findings

People with disabilities are a substantial portion of the population. Although it has long been recognized that people with disabilities have at least the same need for health maintenance and preventive services as the general population, long-standing disparities in the receipt of various clinical preventive services persist among people with disabilities. The purpose of this systematic review was to document and summarize identified barriers and facilitators to the receipt of selected clinical preventive services among people with disabilities (Key Question 1); and to identify and synthesize the literature on the effectiveness of interventions to improve the receipt of selected clinical preventive services among people with disabilities (Key Questions 2-4).

Studies have found disparities in the receipt of preventive services to vary according to type of disability,^{22,38,39} which suggests that the receipt of different clinical preventive services by people with different types of disability may be influenced by different barriers/facilitators and/or influenced differentially by particular barriers/facilitators. This view reflects the diverse nature of different types of disability (e.g., physical, sensory, cognitive/ intellectual /developmental; serious mental illness), with each presenting different types of potential challenges for the receipt of preventive services; and the variety of different preventive services, each with different functional requirements and potential barriers for participation. It also reflects the complex interactions of individuals' functional abilities with various environmental factors (physical, social, attitudinal), consistent with the integrative model of human functioning and disability represented by the International Classification of Functioning, Disability, and Health (ICF) of the World Health Organization (WHO).⁴⁰ In consideration of these factors, we organized and presented the findings of this systematic review for individual clinical preventive services, according to individual types of disability.

Sixty-eight studies provided evidence for this systematic review—54 studies were included for Key Question 1 and 16 studies were included for Key Question 2. Two of the included studies had limited evidence for Key Question 3 (regarding the effectiveness of particular characteristics or components of interventions in mitigating barriers to the receipt of clinical preventive services), and one included study had limited evidence on the harms of intervention programs (Key Question 4).

Key Question 1. For Key Question 1, studies related to 10 of the 20 clinical preventive services included in the review: screening for anxiety disorder in adults (n=1),⁵⁵ breast cancer screening (n=36),^{35-37,56-88} cervical cancer screening (n=19),^{35,56-59,62,63,65,74,80,82,83,85,89-94} colorectal cancer screening (n=6),^{34,35,62,63,65,80} screening for depression risk in adults (n=3),^{55,95,96} screening for HIV infection (n=1),⁹⁷ screening for unhealthy alcohol use (n=2),^{98,99} interventions for falls prevention in community-dwelling older adults (n=1),¹⁰⁰ counselling for healthy diet and physical activity for cardiovascular disease (CVD) prevention (n=1),¹⁰¹ and behavioral counselling to prevent sexually transmitted infections (n=3).¹⁰²⁻¹⁰⁴ By far, the largest number of studies were related to barriers/facilitators for the receipt of breast cancer screening (69%) and/or cervical cancer screening (35%), and addressed barriers/facilitators for people with cognitive/intellectual/ developmental disabilities (47%) or physical disabilities (36%). Table H-1

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in Appendix H presents the included studies according to the clinical preventive service(s) and type(s) of disability addressed.

For **breast cancer screening**, most categories of barriers/facilitators (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility) were reported for all types of disability. Among women with **physical disabilities**, most reported barriers were at the person level (e.g., difficulty standing still, fear and/or embarrassment), the provider level (e.g., ableism, lack of knowledge about people with disabilities) and the level of the healthcare system (e.g., lack of reminder to receive screening). Most reported facilitators were at the provider level (e.g., knowledge about people with disabilities). Among women with **cognitive/intellectual/developmental disabilities**, most reported barriers were at the environment level (e.g., family/caregiver feeling overwhelmed, transportation), the person level (e.g., fear and/or embarrassment, inability to give informed consent), and the provider level (e.g., lack of knowledge about people with disabilities, not assessing the need for a decision-making delegate). Most reported facilitators were at the person level (e.g., feeling in control, having coping strategies), the provider level (e.g., allowing preparatory visits, providing explanations before the procedure) and the level of the healthcare system (e.g., extra time for appointments).

For **cervical cancer screening** among women with **physical disabilities**, most reported barriers were at the person level (e.g., feeling dependent on others, pain or discomfort with screening) and the provider level (e.g., negative attitude/ableism, not listening to the person with disabilities). Most reported facilitators were at the provider level (e.g., assistance with dressing, knowledge about people with disabilities). Among women with **cognitive/intellectual/developmental disabilities**, most reported barriers were at the person level (e.g., inability to give informed consent, not understanding the screening process) and the provider level (e.g., ableism, misconceptions about sexual activity and need for screening). Most reported facilitators were at the provider level (e.g., adjusting procedures to accommodate the patient, providing an explanation before the procedure).

Studies on **colorectal cancer screening** pertained to people with **physical disabilities** (n=4) or people with **serious mental illness** (n=2). Most categories of barriers/facilitators (environment-level, person-level, provider-level, healthcare system-level, accessibility of healthcare facility) were reported for both types of disability.

For each of the other preventive services, there were fewer studies and barriers/facilitators were reported for one or two types of disability: **screening for depression risk** in adults (3 studies; cognitive/intellectual/developmental disability, sensory disability); behavioral **counselling to prevent sexually transmitted infections** (3 studies; physical disability; serious mental illness); screening for unhealthy alcohol use (2 studies; cognitive/ intellectual/ developmental disability); **screening for HIV infection** (1 study; sensory disability); **interventions for falls prevention** in community-dwelling older adults (1 study; cognitive /intellectual/developmental disability); and **counselling for healthy diet and physical activity for CVD prevention** (1 study; serious mental illness).

Key Question 2. For Key Question 2, studies related to 8 of the 20 clinical preventive services included in the review: breast cancer screening (n=8), cervical cancer screening (n=9), colorectal cancer screening (n=3), screening for depression risk in adults (n=1), screening for hypertension (n=4), screening for prediabetes/type 2 diabetes (n=1), interventions for falls prevention in community-dwelling older adults (n=1), and interventions for weight loss to prevent obesity (n=3); seven of the studies assessed multiple clinical preventive services. Ten

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studies were of interventions directed at people with disabilities, two studies were of interventions for clinicians, and four studies were of multicomponent interventions targeting both people with disabilities and clinicians. Studies included people with physical disabilities (n=3), cognitive/intellectual/developmental disabilities (n=8), sensory disabilities (n=4), and serious mental illness (n=1). The largest number of studies were of interventions to improve the receipt of breast cancer screening (50%) and/or cervical cancer screening (56%), and pertained to people with cognitive/intellectual/developmental disabilities (50%), sensory disabilities (25%), or physical disabilities (19%).

Eight studies (5 randomized controlled trials [RCTs]) assessed interventions to improve the receipt of **breast cancer screening** among women with different types of disability. In general, the RCTs found that educational and health advocacy interventions were associated with increased receipt of breast cancer screening, although risk estimates were not consistently statistically significant. One cluster RCT among women with **cognitive/intellectual/developmental disabilities** found that, compared with usual care, women who participated in an intervention that targeted general health promotion – Comprehensive Health Assessment Program (CHAP) – were more likely to receive a mammogram within 1 year (relative risk [RR] 3.5, 95% confidence interval [CI] 1.1 to 12), although the proportion receiving a mammogram was low for both groups (15% vs. 4%).¹⁰⁹ Another RCT among people with **serious mental illness** found that, compared with usual care, women who participated in a 1-year, multicomponent intervention that targeted general healthcare (Helping Older People Experience Success [HOPES]) were more likely to receive a mammogram within 3 years (RR 1.27, 95% CI 1.02 to 1.59; 85% vs. 67%).¹⁰⁵ One RCT of an educational intervention designed to improve breast and cervical cancer screening among women with **physical disabilities** did not find a significant difference in the receipt of mammography after 6 months (RR 1.16, 95% CI 0.79 to 1.70; 49% vs. 42%);¹¹¹ and one RCT of an educational intervention designed to improve breast cancer screening among women with a **sensory disability** (deafness) did not find a significant difference in the receipt of mammography after 1 year (RR 1.05, 95% CI 0.84 to 1.32; 66% vs. 63%).¹⁰⁶

Nine studies (4 RCTs) assessed interventions to improve the receipt of **cervical cancer screening** among women with different types of disability. In general, the RCTs found that educational and health advocacy interventions were associated with increased receipt of cervical cancer screening. One RCT among women with **physical disabilities** found that, compared with receiving general health promotion materials, women who participated in an intervention designed to improve breast and cervical cancer screening (Promoting Access to Health Services [PATHS]) were more likely to receive a Pap test within 6 months (RR 2.20, 95% CI 1.15 to 4.19; 61% vs. 27%).¹¹¹ One cluster RCT among women with **cognitive/intellectual/developmental disabilities** found that, compared with usual care, women who participated in an intervention that targeted general health promotion – CHAP – were more likely to receive a Pap test within 1 year (RR 7.9, 95% CI 1.8 to 35), although the proportion receiving a Pap test was low for both groups (16% vs. 2%).¹⁰⁹ Another RCT among people with **serious mental illness** found that, compared with usual care, women who participated in a 1-year, multicomponent intervention that targeted general healthcare (HOPES) were more likely to receive a Pap test within 3 years (RR 1.58, 95% CI 1.15 to 2.16; 77% vs. 49%).¹⁰⁵ One RCT of an intervention specifically

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designed to increase cervical cancer screening rates in women with a **sensory disability** (deafness) found a large but imprecise effect on screening rates (RR 23, 95% CI 3.18 to 166).

Three studies (1 RCT) assessed interventions to improve the receipt of **colorectal cancer screening** among people with cognitive/intellectual/developmental disabilities or serious mental illness. The RCT was the only comparative study that reported on the receipt of colorectal cancer screening as an outcome, and was also included for breast cancer and cervical cancer screening, described above. The study was of a 1-year, multicomponent intervention that targeted general healthcare among people with **serious mental illness** (HOPES) and found similar rates of colorectal cancer screening in both the intervention and control groups at 3-year followup (RR 0.97, 95% CI 0.85 to 1.10; 82% vs. 84%).¹⁰⁵

Four studies (3 RCTs) reported on the receipt of **screening for hypertension** as an outcome in interventions to improve general healthcare among people with **cognitive/ intellectual/ developmental disabilities** or **serious mental illness**. None of the studies found a difference in rates of hypertension screening between the intervention and usual care.

Two studies (1 RCT) reported on interventions to improve general health that reported on outcomes related to **weight loss to reduce obesity-related morbidity**, among people with **cognitive/intellectual/developmental disabilities**. The RCT found that people with obesity who received the intervention were more likely to have a weight management plan than those in the usual care group (RR 1.65, 95% CI 0.28 to 9.86; 41% [7/17] vs. 25% [1/4]), but the findings were limited by the small numbers of patients in each group, and the resulting risk estimate was not statistically significant.¹⁰⁹ A single-arm study assessed a health promotion program (Steps to Your Health) that was adapted for people with **cognitive disability**. The intervention was associated with significant changes in body mass index and exercise frequency between baseline and followup at 9 weeks.¹¹⁶

Evidence on interventions to improve the receipt of other clinical preventive services (**screening for depression risk in adults**, **screening for prediabetes/type 2 diabetes**, and **interventions for falls prevention**) is limited to one study for each preventive service, with no clear effect of the interventions for any preventive service.

4.2 Strengths and Limitations of the Systematic Review Process

Strengths. Our systematic review has some notable strengths. The scope and focus of the review were developed and refined with input from Key Informants and Technical Expert Panel members that included the perspectives of end-users and people with disabilities. The protocol was reviewed by Technical Expert Panel members.

It has been previously recognized that the diversity of definitions of disability – which may be based on health conditions and/or aspects of functional ability – presents a challenge for conducting a literature search on this topic.⁴⁹ To address that challenge, our database search strategy was informed by an earlier search strategy,⁴⁹ and was refined with additional MeSH terms and keywords to meet the needs of this review.

The review was limited to a set of clinical preventive services, each of which has an evidenced-based recommendation from the United States Preventive Services Task Force (USPSTF), representing various general types of preventive services and a breadth of health conditions and circumstances. The included preventive services are also characterized by a

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variety of different functional requirements and potential barriers for participation, with relevance to people with different types of disability.

As noted previously, the receipt of different clinical preventive services by people with different types of disability may be influenced by different barriers/facilitators and/or influenced differentially by particular barriers/facilitators.⁴⁰ Taking this potential interactive effect into account, we organized and presented the findings of this review for individual clinical preventive services, according to individual types of disability.

Limitations. In addition to the limitations of the evidence base described below, there are limitations to the review that are the result of processes and decisions we made in applying standard methods for systematic reviews and adapting these methods to this specific topic and Key Questions. The scope of this review focused on barriers/facilitators related specifically to the receipt of clinical preventive services. However, we considered for inclusion studies of interventions that addressed factors other than preventive services (e.g., general access to healthcare), provided that the study assessed and reported the effect of the intervention on included outcomes related to included preventive services. Because our literature search was designed to focus on the receipt of preventive services, as per the scope of the review, it is possible that our search did not identify some relevant studies of interventions that were not targeted specifically at preventive services.

Although we worked with the Technical Expert Panel to develop a diverse set of clinical preventive services to include for the review, we did not include all possible preventive services with evidence-based recommendations (e.g., various immunizations), and it is possible that potentially informative studies have been conducted related to preventive services outside the scope of this review.

For Key Question 1, when classifying barriers and facilitators as reported by individual studies into the broad general categories used for this review, our team members consulted with one another for consistency within and across preventive services. We followed a similar process when deciding on summary terms for common barriers and facilitators reported by individual studies. Nevertheless, summarizing and synthesizing in this way requires subjective judgements, some barriers/facilitators might reasonably be considered to fall within different categories, and it is possible that others might make different judgements.

Although we did include studies of *individuals* with multiple, co-occurring types of disability, we did not otherwise include studies of various different types of disability, unless the study reported barriers/facilitators as related to the specific type of disability and/or made clear that reported barriers/facilitators applied to all of the included types of disability. It is possible that our review thereby missed studies that provide different information about unique barriers and/or facilitators that apply across disability types.

We used standard study design-specific criteria for assessing the risk of bias and general quality of included studies. These standard criteria do not include an assessment of the possible role of ableism as a source of bias—a criterion that could be useful for future research.

One limitation of our systematic review process is a result of the limitations of the evidence base. Due to the high methodological and clinical heterogeneity of the included studies (populations, interventions, outcomes, and study designs), we did not attempt to assign strength of evidence ratings for Key Question 2. To do so would raise concern that indirect comparisons between various heterogeneous interventions would not meaningfully address the questions and would lead to unreliable and potentially misleading conclusions. For the same reason – particularly the high methodological and clinical heterogeneity of the intervention strategies – we

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did not conduct quantitative pooled syntheses (meta-analyses). This heterogeneity is also challenging for qualitative synthesis of the studies.

4.3 Limitations of the Evidence Base

The most notable limitation of the body of evidence for this review is the lack of relevant studies for most of the clinical preventive services – both for the descriptive question documenting reported barriers and facilitators (Key Question 1), and the questions related to the effectiveness of interventions (Key Questions 2-4). By far, most of the evidence was for two preventive services – breast cancer screening and cervical cancer screening – a finding that is consistent with previous studies on disparities in the receipt of preventive services among people with disabilities, the preponderance of which are also on breast and cervical cancer screening (and, to a lesser extent, colorectal cancer screening).

Although we identified 54 studies for Key Question 1, these studies related to only 10 of the 20 preventive services included for the review, and the evidence for 7 of those 10 preventive services was based on 3 or fewer studies each, with only 1 study included for each of 4 preventive services. Only 16 studies were identified for Key Question 2, related to only 8 of the 20 preventive services included for the review, and the evidence for 5 of those 8 preventive services was based on 3 or fewer studies each, with only 1 study included for each of 3 preventive services. Furthermore, for most of the preventive services for which evidence was found, the studies pertained to only one or two types of disability. For Key Question 1 and Key Question 2, the evidence for 50 percent of the preventive services (5/10 and 4/8, respectively) pertained to only one type of disability; with 80 percent of the preventive services in Key Question 1 (8/10) and 75 percent of those in Key Question 2 (6/8) having evidence pertaining to two or fewer types of disability. Aside from the absence of any evidence for most preventive service-disability type combinations, these limitations in the body of evidence also substantially limit any comparisons between preventive services and/or types of disability. Even for the two preventive services with the most evidence – breast cancer screening and cervical cancer screening – only one or two studies pertained to any specific disability type, except for cognitive/intellectual/developmental disabilities.

The evidence base for Key Question 2 is further limited by the designs and quality of the included studies. Seven RCTs were identified for Key Question 2, but most of the studies were not randomized trials, including before-after studies, nonrandomized trials, two cross-sectional studies, and single-arm, noncomparative studies, which were included based on the best evidence approach, given the relative lack of evidence (particularly RCTs) for many preventive service-disability types. In addition, few studies were rated as low risk of bias, with most rated as moderate risk of bias. Common methodological limitations of the RCTs included unclear randomization and allocation concealment, and unclear or lack of blinding of outcome assessors. Common methodological limitations of the observational studies and nonrandomized intervention studies included missing details about baseline characteristics of study participants, loss to followup, and maintenance of comparable intervention groups.

As noted in above, another limitation of the evidence base was the high methodological and clinical heterogeneity of the included studies, due to which we did not attempt to assign strength

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of evidence ratings for Key Question 2, nor to conduct quantitative pooled syntheses (meta-analyses).

4.4 Applicability

A number of factors could affect the applicability of the findings of the review. The scope of the review included people with four general types of disabilities, a set of 20 clinical preventive services with Grade A or Grade B recommendations from the USPSTF (as of September 27, 2023), and specific outcomes related to the receipt of those preventive services. For each preventive service, we limited the included studies to those in which the study population and the intervention were consistent with the population(s) and intervention(s) that were explicitly recommended by the USPSTF. For example, the USPSTF recommendation for breast cancer screening applied only to the use of screening mammography; and the USPSTF recommendation on interventions for falls prevention in community-dwelling older adults only applied to exercise-based interventions. In addition, although the review included a range of types of disability (physical, cognitive/intellectual/developmental, sensory, serious psychiatric/mental illness), the evidence for specific types of disability for most included preventive services is limited or lacking entirely. Therefore, if judging the applicability of the findings of the review for particular populations, it would be important to consider the specific type(s) of disability for which evidence was identified for a given preventive service, as well as the specific population(s) and intervention(s) that were included in the USPSTF recommendation for that preventive service. For example, the evidence on barriers/facilitators for behavioral counselling to prevent sexually transmitted infections (Key Question 1) only applies to people with serious mental illness; and the evidence on interventions to improve the receipt of colorectal cancer screening (Key Question 2) applies only to people with cognitive/intellectual/developmental disabilities or people with serious mental illness, with different interventions studied for each of these types of disability.

Included studies were conducted in a range of populations and settings (Key Questions 1 and 2), and represented a range of interventions (Key Question 2), many of which were designed and/or tailored specifically for a given population and/or setting. Most studies for each Key Question were conducted in either the United States or the United Kingdom. Therefore, if judging the applicability of particular barriers/facilitators (Key Question 1) for a given preventive service, it would be important to consider the specific setting(s) in which those barriers/facilitators were identified (e.g., country, type of healthcare system, type of physical facility). Similarly, if judging the applicability of the review findings related to a particular intervention to improve the receipt of a given preventive service (Key Question 2), it would be important to consider the specific setting in which any supporting studies were conducted and ways in which the intervention may have been limited to that setting.

4.5 Implications for Clinical and Policy Decisions

The long-standing, persistent disparities in the receipt of various clinical preventive services among people with disabilities requires improvements that will involve clinical and policy decisions. While the findings of this review do not provide clear or sufficient evidence to support any specific clinical or policy decisions, they may have some general implications. Although the reported barriers and facilitators (Key Question 1) were mostly limited to a small number of preventive services (particularly breast cancer screening and cervical cancer screening), the broad range of barriers reported across general categories (e.g., environment-level, person-level,

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provider-level, healthcare system-level) suggests the potential benefit of clinical and policy decision makers using a broad conception of accessibility—that is, a conception that includes barriers and facilitators of various different types and also considers the potential combined and/or interactive effects of those diverse barriers/facilitators. As an example, for breast cancer screening among women with physical disabilities, numerous studies reported barriers and facilitators within multiple categories—environment-level, person-level, provider-level, healthcare system-level, and related to the accessibility of facilities. In making clinical or policy decisions about improving the receipt of breast cancer screening, all of these categories should be considered. For a woman who uses a wheelchair, it may not be enough for a facility to install an adjustable mammography machine if her physician does not believe that she has the same need for screening as someone without a physical disability, if accessible transportation is not available, and/or if her clinic does not provide extra time for appointments.

The findings of this review do not provide clear or sufficient evidence to support any specific clinical or policy decisions regarding the effectiveness of interventions to improve the receipt of clinical preventive services for people with disabilities (Key Question 2). However, three RCTs that assessed breast cancer screening and cervical cancer screening found that various educational and health advocacy interventions were associated with increased rates of screening among women with physical disabilities, cognitive/intellectual/developmental disabilities, and serious mental illness. The evidence came from three RCTs of three different interventions, each of which targeted a different type of disability and assessed both breast and cervical cancer screening, PATHS for women with physical disabilities,¹¹¹ CHAP for people with cognitive/intellectual/developmental disabilities,¹⁰⁹ and HOPES for people with serious mental illness.¹⁰⁵ The PATHS intervention was specific to breast and cervical cancer screening, while CHAP and HOPES targeted general preventive care. Although each of these interventions was found to improve the receipt of breast and cervical cancer screening (findings were statistically significant, except for breast cancer screening among women with physical disabilities), the evidence was limited to a single RCT for each preventive service-disability type. While the evidence does not provide clear support for any specific clinical or policy decisions, these interventions might be adopted or adapted and/or serve as models for the development, implementation, and evaluation of similar approaches in other populations and settings.

4.6 Future Research Needs

The findings of this systematic review underscore the lack of evidence specific to: (1) barriers and facilitators to the receipt of clinical preventive services for people with disabilities, and (2) interventions to improve the receipt of preventive services for people with disabilities. As described above, the most notable limitation of the body of evidence is the lack of studies for most of the clinical preventive services, both for documenting reported barriers and facilitators (Key Question 1), and related to the effectiveness of interventions (Key Questions 2-4). Furthermore, for most of the preventive services for which evidence was found, the studies pertained to few types of disability. Even for breast cancer and cervical cancer screening – the two preventive services with the strongest prior evidence base establishing the existence of disparities and the most studies in the current review reporting multiple barriers and facilitators – the evidence on interventions to improve receipt of the services (Key Question 2) is limited to few studies of rigorous design and low risk of bias.

Clearly, there is a need for research to address the substantial gaps in the evidence for this important topic. Research into the barriers and facilitators for receipt of preventive services that

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have not been well-studied previously, and research into interventions to mitigate the barriers. While we did not limit the included preventive services for the review to those for which the existence of disparities among people with disabilities was previously well-established, we found little or no evidence for some preventive services for which disparities among people with disabilities have been reported, albeit not in many studies.^{21,27,28,123} Because research priorities might be guided by the existence of clear disparities in care, future research should include studies of possible disparities in the receipt of preventive services that have not been well-studied previously. For practical reasons related to definitions/measures of disability and clinical data that are or are not routinely gathered, studying certain preventive services may be more challenging than studying others; however, establishing the existence and magnitude of disparities in the receipt of specific preventive services among people with various types of disability could help to prioritize and guide research into the associated barriers/facilitators and, subsequently, into the development and evaluation of targeted interventions to mitigate the barriers. To mitigate the limitations in existing clinical data, the routine collection of relevant data on disability in healthcare settings should be improved.

As with clinical and policy decision making, future research into the development, implementation, and evaluation of interventions to improve the receipt of preventive services among people with disabilities should reflect an understanding of the various different categories and types of barriers and facilitators for a given preventive service-disability type, as well as the potential combined and/or interactive effects of those diverse barriers/facilitators. In addition, because many of the reported barriers and facilitators might also occur among people without disabilities (e.g., personal embarrassment with screening tests, difficulty booking appointments, lack of insurance), future research should consider the ways in which such common barriers might be experienced differently and more severely by people with disabilities. Such research might include randomized trials and nonrandomized implementation studies that address multiple categories of barriers, to investigate possible synergy between the elements of the intervention. For example, a trial might investigate the effectiveness of two interventions, separately and in combination – an educational intervention for patients to increase knowledge and self-efficacy for breast-cancer screening and a complementary intervention for clinicians to increase knowledge and awareness of barriers to breast cancer screening faced by people with disabilities. Future research should also investigate the potential benefits of interventions designed to improve general healthcare for people with disabilities (e.g., clinic systems designed to learn and record patients' particular needs for accessibility, improved general knowledge and awareness of disability among clinic staff, accessible communication) and how those interventions affect the receipt of various preventive services. Research should include the perspectives and experience of people with disabilities – as centrally important to understanding and addressing barriers to the receipt of preventive services – while also including the perspectives and experience of individuals representing all other relevant roles (e.g., caregivers, clinicians or other healthcare workers, administrators).

Using the draft of this evidence review, the Agency for Healthcare Research and Quality convened a stakeholder panel comprised of 13 individuals, each with a combination of professional experience and personal lived experience of disability, to discuss the findings of the review and identify additional needed research. The panel's recommendations are summarized in a technical report, "Research to Improve the Delivery of Clinical Preventive Services to People with Disabilities" (https://www.ahrq.gov/sites/default/files/wysiwyg/prevention/stakeholder-report_0824.pdf).

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4.7 Summary and Conclusion

This systematic review included 54 studies that reported on barriers and facilitators to the receipt of clinical preventive services for people with disabilities (Key Question 1) and 16 studies that reported on interventions to improve the receipt of preventive services for people with disabilities (Key Question 2). Two included studies had limited evidence on the effectiveness of particular components of interventions (Key Question 3) and one study had limited evidence on harms of an intervention (Key Question 4). The findings were based on a broad literature search that included terms for conditions and functional elements of disability; and were organized according to individual clinical preventive service and general type of disability.

For both Key Question 1 and Key Question 2, evidence was lacking for most preventive services and generally limited to one or two types of disability for a given preventive service. Most evidence was for two preventive services – breast cancer screening and cervical cancer screening – consistent with previous studies on disparities in the receipt of preventive services among people with disabilities, the preponderance of which are also on breast and cervical cancer screening. For breast and cervical cancer screening, evidence on barriers/facilitators was included for all types of disability and most categories of barriers and/or facilitators were reported (Key Question 1). Three RCTs that assessed breast and cervical cancer screening found that various educational and health advocacy interventions were associated with increased rates of screening among people with physical disabilities, cognitive/intellectual/developmental disabilities, and serious mental illness (Key Question 2). The findings of this systematic review underscore the lack of evidence specific to these important Key Questions and the need for research to address the substantial gaps in the evidence for this important topic.

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6. Abbreviations and Acronyms

Abbreviation	Term
AHRQ	Agency for Healthcare Research and Quality
AMSTAR	Measurement Tool to Assess systematic Reviews
ASK	Advocacy Skills Training
ASL	American Sign Language
BMI	body mass index
BRFSS	Behavioral Risk Factor Surveillance System
CHAP	Comprehensive Health Assessment Program
CI	confidence interval
CVD	cardiovascular disease
EPC	Evidence-based Practice Center
HCF	healthcare facility
HOPES	Helping Older People Experience Success
ICF	International Classification of Functioning, Disability, and Health
IDD	intellectual/developmental disability
KQ	Key Question
LGBTQ+	lesbian, gay, bisexual, transgender, queer/questioning plus/others
NA	not applicable
NHIS	National Health Interview Survey
NIDILRR	National Institute on Disability, Independent Living, and Rehabilitation Research
NRSI	nonrandomized studies of interventions
OR	odds ratio
PATHS	Promoting Access to Health Services
PICOTS	population, interventions, comparators, outcomes, timing, setting
PwD	people with a disability/person with a disability
RCT	randomized controlled trial
RR	relative risk
SMI	serious mental illness
STI	sexually transmitted infection
USPSTF	United States Preventive Services Task Force
WHO	World Health Organization

Appendix Contents

Appendix A. Methods

Search Strategies

Inclusion and Exclusion Criteria

Table A-1. PICOTS and corresponding inclusion and exclusion criteria

Table A-2. Included clinical preventive services - United States Preventive Services Task Force A & B recommendations¹

Risk of Bias (Quality) Assessment of Individual Studies

Risk of Bias Criteria for Randomized Controlled Trials²

Risk of Bias Criteria for Nonrandomized Intervention Studies³

Quality Assessment Criteria for Qualitative Studies⁴

Quality Assessment Criteria for Surveys⁵

Appendix B. Literature Flow Diagram

Appendix C. List of Included Studies

Appendix D. Excluded Studies List

Table D-1. Exclusion codes

Appendix E. Evidence Tables

Appendix F. Risk of Bias and Quality Assessment Tables

Appendix G. Barriers and Facilitators, Key Question 1 – Tables by Clinical Preventive Service and Disability Type

Table G-1. Screening for anxiety disorder in adults – cognitive/intellectual/developmental disability: barriers and facilitators

Table G-2. Breast cancer screening – physical disability: barriers and facilitators

Table G-3. Breast cancer screening – cognitive/intellectual/developmental disability: barriers and facilitators

Table G-4. Breast cancer screening – sensory disability: barriers and facilitators

Table G-5. Breast cancer screening – serious mental illness disability: barriers and facilitators

Table G-6. Breast cancer screening – multiple co-occurring disabilities

Table G-7. Cervical cancer screening – physical disability: barriers and facilitators

Table G-8. Cervical cancer screening – cognitive/intellectual/developmental disability: barriers and facilitators

Table G-9. Cervical cancer screening – sensory disability: barriers and facilitators

Table G-10. Cervical cancer screening – serious mental illness: barriers and facilitators

Table G-11. Colorectal cancer screening – physical disability: barriers and facilitators

Table G-12. Colorectal cancer screening – serious mental illness: barriers and facilitators

Table G-13. Screening for depression risk in adults – cognitive/intellectual/developmental disability: barriers and facilitators

Table G-14. Screening for depression risk in adults – sensory disability: barriers and facilitators

Table G-15. Screening for HIV infection – sensory disability: barriers and facilitators

Table G-16. Unhealthy alcohol use screening – cognitive/intellectual/developmental disability: barriers and facilitators

Table G-17. Falls prevention in community-dwelling adults – cognitive/intellectual/developmental disability: barriers and facilitators

Table G-18. Cardiovascular screening, diet, and exercise – serious mental illness: barriers and facilitators

Table G-19. Sexually transmitted infection prevention – physical disability: barriers and facilitators

Table G-20. Sexually transmitted infection prevention –serious mental illness: barriers and facilitators

Appendix H. Supplemental Tables on Barriers and Facilitators, Key Question 1

Table H-1. Studies reporting barrier and facilitator general categories, by clinical preventive service and type of disability

Table H-2. Commonly reported barriers and facilitators by clinical preventive service type

Appendix I. Appendix References

Appendix A. Methods

Search Strategies

Database: Ovid® MEDLINE

- 1 exp Disabled Persons/
- 2 (disabled or disabling or disability or disabilities).tw.
- 3 ("functional limitation*" or "activity limitation*" or "mobility impairment*" or "participation limitation*").tw.
- 4 "Activities of Daily Living"/
- 5 "activities of daily living".tw.
- 6 Mobility Limitation/
- 7 "mobility limitation*".tw.
- 8 Dependent Ambulation/
- 9 "dependent ambulation".tw.
- 10 Paraplegia/ or Quadriplegia/
- 11 (paraplegi* or quadriplegi* or amputee*).tw.
- 12 exp Self-help Devices/
- 13 "assistive technology".tw.
- 14 ((wheelchair* or cane or walker or scooter or "mobility device") adj2 user*).tw.
- 15 Motor Disorders/
- 16 "motor disorder*".tw.
- 17 Motor Skills Disorders/
- 18 "motor skills disorder*".tw.
- 19 Hearing Loss/ or Deafness/
- 20 ("hearing loss" or deaf*).tw.
- 21 Blindness/ or Vision, Low/
- 22 blindness.tw.
- 23 Vision Disorders/
- 24 "vision disorder*".tw.
- 25 ("hearing impaired person" or "hearing impaired people" or "person with hearing impairment" or "people with hearing impairment").tw.
- 26 ("visually impaired person*" or "visually impaired people" or "person with vision impairment" or "people with vision impairment").tw.
- 27 exp Schizophrenia/
- 28 schizophrenia.tw.
- 29 exp "Bipolar and Related Disorders"/
- 30 "bipolar disorder*".tw.
- 31 Depressive Disorder, Major/
- 32 "major depressive disorder*".tw.
- 33 exp Anxiety Disorders/
- 34 "anxiety disorder*".tw.
- 35 ("mentally ill person*" or "mentally ill people" or "person with mental illness" or "people with mental illness").tw.
- 36 ("mental health disabilit*" or "mental health impairment").tw.

37 Developmental Disabilities/
 38 ("developmental disabilit*" or "developmentally disabled").tw.
 39 exp Intellectual Disability/
 40 ("intellectual disabilit*" or "intellectually disabled").tw.
 41 exp Child Development Disorders, Pervasive/
 42 (autism or autistic or neurodivergen*).tw.
 43 exp Cognition Disorders/
 44 ("cognitive disorder*" or "cognitive impairment").tw.
 45 Neurocognitive Disorders/ or exp Dementia/
 46 (neurocognitive disorder* or dementia).tw.
 47 Attention Deficit Disorder with Hyperactivity/
 48 (attention deficit hyperactivity disorder or ADHD).tw.
 49 exp Communication Disorders/
 50 (communication disorder* or language disorder* or speech disorder* or dyslexia or aphasia
 or "learning disabilit*").tw.
 51 or/1-50
 52 Primary Prevention/
 53 Preventive Medicine/
 54 Preventive Health Services/
 55 Guideline Adherence/
 56 Mass Screening/
 57 ((prevent or preventive or prevention) adj5 (service* or care)).tw.
 58 screening guideline*.tw.
 59 or/52-58
 60 51 and 59
 61 Healthcare Disparities/
 62 Health Services Accessibility/
 63 prevent*.tw.
 64 51 and (61 or 62) and 63
 65 60 or 64
 66 (breast or mammogra*).mp.
 67 ((cervical adj3 cancer) or (((pap or papanicolaou) adj2 test*) or smear)).mp.
 68 (((colorectal or colon or colonic or rectal or rectum or rectosigmoid or adenomat*) adj3
 (cancer* or carcinoma* or adenocarcinoma* or malignan* or tumor* or tumour* or neoplas* or
 polyp*)) or colonoscop* or colonograph*).mp.
 69 (depression or depressive or depressed or suicid* or anxiet* or anxious).mp.
 70 (hypertension or hypertensive or "blood pressure" or SBP or DBP).mp.
 71 (diabet* or prediabet* or pre-diabet* or "impaired glucose tolerance" or "impaired fasting
 glucose" or "glucose intolerance").mp.
 72 (tobacco or nicotine or smoking or smoker* or cigar* or vape or vaping).mp.
 73 (obes* or overweight or weight or "body fat" or adipos*).mp.
 74 ("human immunodeficiency virus" or "HIV").mp.
 75 ("intimate partner violence" or "elder abuse" or "spouse abuse" or "battered women" or
 "domestic violence" or ((abuse or abusive or violence or violent or assault) adj3 (partner or
 spouse or husband or wife))).mp.
 76 ((osteoporosis or osteoporotic or bone density) and fracture*).mp.

77 exp Substance-Related Disorders/
 78 ((alcohol or drug or drugs or substance* or opioid* or opiate* or amphetamine* or amfetamine* or benzodiazepine* or morphine or methadone or prescription* or phencyclidine* or solvent* or inhalant* or barbiturate* or depressant* or sedative* or stimulant* or ritalin or adderall or methylphenidate or fentanyl or oxycodone or hydrocodone or marijuana or cannabis or cannabinoid or cocaine or methamphetamine or psilocybin) adj3 (addict or addiction or abuse or abusing or abusive or misuse or mis-use or misusing or mis-using or illicit or illegal or unlawful or unsanction* or habit* or dependen* or disorder or disorders or consumption or diversion)).tw.
 79 (breastfeed* or breastfed or "breast feed*" or "breast fed" or lactation).mp.
 80 "accidental falls".sh. or (fall or falls or faller* or falling).tw.
 81 ((pregnant or pregnancy or antenatal or ante-natal or prenatal or pre-natal or perinatal or peri-natal or postnatal or post-natal or antepartum or ante-partum or peripartum or peri-partum or postpartum or post-partum or maternal or puerperal) adj3 (depression or depressive or depressed or dysthym* or anxious or anxiety)).mp.
 82 (diet or dietary or exercise or healthy or weight reduction or physical fitness or active or activity or train or training).mp.
 83 exp Exercise/
 84 Physical Conditioning, Animal/
 85 83 not 84
 86 (sexually transmitted or sti* or std* or chlamydia or gonorrh* or syphilis or papilloma\$ or hpv or trichomonas or trichomoniasis or hepatitis or herpes or warts).mp.
 87 or/66-82
 88 or/85-87
 89 51 and 65 and 88
 90 limit 89 to english language
 91 limit 90 to yr="1990 -Current"

Database: Ovid® Cochrane Central Register of Controlled Trials

1 exp Disabled Persons/
 2 (disabled or disabling or disability or disabilities).tw.
 3 ("functional limitation*" or "activity limitation*" or "mobility impairment*" or "participation limitation*").tw.
 4 "Activities of Daily Living"/
 5 "activities of daily living".tw.
 6 Mobility Limitation/
 7 "mobility limitation*".tw.
 8 Dependent Ambulation/
 9 "dependent ambulation".tw.
 10 Paraplegia/ or Quadriplegia/
 11 (paraplegi* or quadriplegi* or amputee*).tw.
 12 exp Self-help Devices/
 13 "assistive technology".tw.
 14 ((wheelchair* or cane or walker or scooter or "mobility device") adj2 user*).tw.
 15 Motor Disorders/
 16 "motor disorder*".tw.

17 Motor Skills Disorders/
 18 "motor skills disorder*".tw.
 19 Hearing Loss/ or Deafness/
 20 ("hearing loss" or deaf*).tw.
 21 Blindness/ or Vision, Low/
 22 blindness.tw.
 23 Vision Disorders/
 24 "vision disorder*".tw.
 25 ("hearing impaired person" or "hearing impaired people" or "person with hearing
 impairment" or "people with hearing impairment").tw.
 26 ("visually impaired person*" or "visually impaired people" or "person with vision
 impairment" or "people with vision impairment").tw.
 27 exp Schizophrenia/
 28 schizophrenia.tw.
 29 exp "Bipolar and Related Disorders"/
 30 "bipolar disorder*".tw.
 31 Depressive Disorder, Major/
 32 "major depressive disorder*".tw.
 33 exp Anxiety Disorders/
 34 "anxiety disorder*".tw.
 35 ("mentally ill person*" or "mentally ill people" or "person with mental illness" or "people
 with mental illness").tw.
 36 ("mental health disabilit*" or "mental health impairment").tw.
 37 Developmental Disabilities/
 38 ("developmental disabilit*" or "developmentally disabled").tw.
 39 exp Intellectual Disability/
 40 ("intellectual disabilit*" or "intellectually disabled").tw.
 41 exp Child Development Disorders, Pervasive/
 42 (autism or autistic or neurodivergen*).tw.
 43 exp Cognition Disorders/
 44 ("cognitive disorder*" or "cognitive impairment").tw.
 45 Neurocognitive Disorders/ or exp Dementia/
 46 (neurocognitive disorder* or dementia).tw.
 47 Attention Deficit Disorder with Hyperactivity/
 48 (attention deficit hyperactivity disorder or ADHD).tw.
 49 exp Communication Disorders/
 50 (communication disorder* or language disorder* or speech disorder* or dyslexia or aphasia
 or "learning disabilit*").tw.
 51 or/1-50
 52 Primary Prevention/
 53 Preventive Medicine/
 54 Preventive Health Services/
 55 Guideline Adherence/
 56 Mass Screening/
 57 ((prevent or preventive or prevention) adj5 (service* or care)).tw.
 58 screening guideline*.tw.

59 or/52-58
 60 51 and 59
 61 Healthcare Disparities/
 62 Health Services Accessibility/
 63 prevent*.tw.
 64 51 and (61 or 62) and 63
 65 60 or 64
 66 (breast or mammogra*).mp.
 67 ((cervical adj3 cancer) or (((pap or papanicolaou) adj2 test*) or smear)).mp.
 68 (((colorectal or colon or colonic or rectal or rectum or rectosigmoid or adenomat*) adj3
 (cancer* or carcinoma* or adenocarcinoma* or malignan* or tumor* or tumour* or neoplas* or
 polyp*)) or colonoscop* or colonograph*).mp.
 69 (depression or depressive or depressed or suicid* or anxiet* or anxious).mp.
 70 (hypertension or hypertensive or "blood pressure" or SBP or DBP).mp.
 71 (diabet* or prediabet* or pre-diabet* or "impaired glucose tolerance" or "impaired fasting
 glucose" or "glucose intolerance").mp.
 72 (tobacco or nicotine or smoking or smoker* or cigar* or vape or vaping).mp.
 73 (obes* or overweight or weight or "body fat" or adipos*).mp.
 74 ("human immunodeficiency virus" or "HIV").mp.
 75 ("intimate partner violence" or "elder abuse" or "spouse abuse" or "battered women" or
 "domestic violence" or ((abuse or abusive or violence or violent or assault) adj3 (partner or
 spouse or husband or wife))).mp.
 76 ((osteoporosis or osteoporotic or bone density) and fracture*).mp.
 77 exp Substance-Related Disorders/
 78 ((alcohol or drug or drugs or substance* or opioid* or opiate* or amphetamine* or
 amfetamine* or benzodiazepine* or morphine or methadone or prescription* or phencyclidine*
 or solvent* or inhalant* or barbiturate* or depressant* or sedative* or stimulant* or ritalin or
 adderall or methylphenidate or fentanyl or oxycodone or hydrocodone or marijuana or cannabis
 or cannabinoid or cocaine or methamphetamine or psilocybin) adj3 (addict or addiction or abuse
 or abusing or abusive or misuse or mis-use or misusing or mis-using or illicit or illegal or
 unlawful or unsanction* or habit* or dependen* or disorder or disorders or consumption or
 diversion)).tw.
 79 (breastfeed* or breastfed or "breast feed*" or "breast fed" or lactation).mp.
 80 "accidental falls".sh. or (fall or falls or faller* or falling).tw.
 81 ((pregnant or pregnancy or antenatal or ante-natal or prenatal or pre-natal or perinatal or
 peri-natal or postnatal or post-natal or antepartum or ante-partum or peripartum or peri-partum or
 postpartum or post-partum or maternal or puerperal) adj3 (depression or depressive or depressed
 or dysthym* or anxious or anxiety)).mp.
 82 (diet or dietary or exercise or healthy or weight reduction or physical fitness or active or
 activity or train or training).mp.
 83 exp Exercise/
 84 Physical Conditioning, Animal/
 85 83 not 84
 86 (sexually transmitted or sti* or std* or chlamydia or gonorrh* or syphilis or papilloma\$ or
 hpv or trichomonas or trichomoniasis or hepatitis or herpes or warts).mp.
 87 or/66-82

88 or/85-87
89 51 and 65 and 88
90 limit 89 to english language
91 limit 90 to yr="1990 -Current"
92 ("trial registry record" or "clinical trial protocol" or "book or thesis").pt.
93 91 not 92

Database: Ovid APA PsycInfo

1 exp Disabilities/
2 exp Disability Management/
3 (disabled or disabling or disability or disabilities).tw.
4 ("functional limitation*" or "activity limitation*" or "mobility impairment*" or "participation limitation*").tw.
5 "Activities of Daily Living"/
6 "activities of daily living".tw.
7 Physical Mobility/
8 "mobility limitation*".tw.
9 Mobility Aids/
10 Assistive Technology/
11 "assistive technology".tw.
12 ((wheelchair* or cane or walker or scooter or "mobility device") adj2 user*).tw.
13 "dependent ambulation".tw.
14 Paraplegia/
15 Quadriplegia/
16 (paraplegi* or quadriplegi* or amputee*).tw.
17 exp Movement Disorders/
18 ((motor or movement) adj2 disorder*).tw.
19 exp Hearing Loss/
20 ("hearing loss" or deaf*).tw.
21 exp Blindness/ or Low Vision/
22 blindness.tw.
23 Vision Disorders/
24 "vision disorder*".tw.
25 ("hearing impaired person" or "hearing impaired people" or "person with hearing impairment" or "people with hearing impairment").tw.
26 ("visually impaired person*" or "visually impaired people" or "person with vision impairment" or "people with vision impairment").tw.
27 Schizophrenia/
28 schizophrenia.tw.
29 Bipolar Disorder/
30 (bipolar adj2 disorder).tw.
31 Major Depression/
32 (major adj2 depress*).tw.
33 exp anxiety disorders/
34 "anxiety disorder*".tw.

35 ("mentally ill person*" or "mentally ill people" or "person with mental illness" or "people with mental illness").tw.
 36 "mental health impairment".tw.
 37 exp Developmental Disabilities/
 38 exp Intellectual Development Disorder/
 39 exp Autism Spectrum Disorders/
 40 (autism or autistic or neurodivergen*).tw.
 41 Neurocognitive Disorders/
 42 exp Cognitive Impairment/
 43 ("cognitive disorder*" or "cognitive impairment").tw.
 44 (neurocognitive disorder* or dementia).tw.
 45 exp attention deficit disorder/
 46 (attention deficit hyperactivity disorder or ADHD).tw.
 47 Neurodevelopmental Disorders/ or exp Communication Disorders/
 48 (communication disorder* or language disorder* or speech disorder* or dyslexia or aphasia or "learning disabilit*").tw.
 49 or/1-48
 50 Preventive Health Services/
 51 Treatment Guidelines/
 52 exp Screening/
 53 Health Promotion/
 54 ((prevent or preventive or prevention) adj5 (service* or care)).tw.
 55 screening guideline*.tw.
 56 or/50-55
 57 49 and 56
 58 exp Health Disparities/
 59 exp Health Care Access/
 60 prevent*.tw.
 61 49 and (58 or 59) and 60
 62 57 or 61
 63 (depression or depressive or depressed or suicid* or anxiet* or anxious).mp.
 64 (tobacco or nicotine or smoking or smoker* or cigar* or vape or vaping).mp.
 65 ("intimate partner violence" or "elder abuse" or "spouse abuse" or "battered women" or "domestic violence" or ((abuse or abusive or violence or violent or assault) adj3 (partner or spouse or husband or wife))).mp.
 66 exp "Substance Related and Addictive Disorders"/
 67 ((alcohol or drug or drugs or substance* or opioid* or opiate* or amphetamine* or amfetamine* or benzodiazepine* or morphine or methadone or prescription* or phencyclidine* or solvent* or inhalant* or barbiturate* or depressant* or sedative* or stimulant* or ritalin or adderall or methylphenidate or fentanyl or oxycodone or hydrocodone or marijuana or cannabis or cannabinoid or cocaine or methamphetamine or psilocybin) adj3 (addict or addiction or abuse or abusing or abusive or misuse or mis-use or misusing or mis-using or illicit or illegal or unlawful or unsanction* or habit* or dependen* or disorder or disorders or consumption or diversion)).tw.
 68 ((pregnant or pregnancy or antenatal or ante-natal or prenatal or pre-natal or perinatal or peri-natal or postnatal or post-natal or antepartum or ante-partum or peripartum or peri-partum or

postpartum or post-partum or maternal or puerperal) adj3 (depression or depressive or depressed or dysthym* or anxious or anxiety)).mp.

69 or/63-68

70 62 and 69

71 journal.pt.

72 70 and 71

73 limit 72 to (human and english language)

74 limit 73 to "remove medline records"

75 limit 74 to yr="1990 -Current"

Database: EBSCO CINAHL Plus

S1 (MH "Persons with Disabilities+")

S2 (MH "Activities of Daily Living")

S3 (MH "Ambulation Aids+") OR (MH "Wheelchairs+")

S4 (MH "Paraplegia") OR (MH "Quadriplegia")

S5 (MH "Hearing Disorders+")

S6 (MH "Blindness+")

S7 (MH "Motor Neuron Diseases")

S8 (MH "Gait Disorders, Neurologic+")

S9 (MH "Schizophrenia+")

S10 (MH "Bipolar Disorder")

S11 (MH "Depression") OR (MH "Anxiety+")

S12 (MH "Communicative Disorders") OR (MH "Developmental Disabilities") OR (MH "Intellectual Disability") OR (MH "Learning Disorders")

S13 (MH "Delirium, Dementia, Amnestic, Cognitive Disorders+")

S14 (MH "Attention Deficit Hyperactivity Disorder")

S15 TI (disabled OR disabling OR disability OR disabilities) OR AB (disabled OR disabling OR disability OR disabilities)

S16 TI ("functional limitation" OR "activity limitation" OR "mobility impairment" OR "participation limitation") OR AB ("functional limitation" OR "activity limitation" OR "mobility impairment" OR "participation limitation")

S17 TI "activities of daily living" OR AB "activities of daily living"

S18 TI (wheelchair* OR cane OR walker OR scooter OR "mobility device") AND TI (use OR user)

S19 AB (wheelchair* OR cane OR walker OR scooter OR "mobility device") AND AB (use OR user)

S20 TI (paraplegi* OR quadriplegi* OR amputee) OR AB (paraplegi* OR quadriplegi* OR amputee)

S21 TI ("hearing loss" OR deaf* OR blindness) OR AB ("hearing loss" OR deaf* OR blindness)

S22 TI ("hearing impaired person" OR "hearing impaired people" OR "person with hearing impairment" OR "people with hearing impairment") OR AB ("hearing impaired person" OR "hearing impaired people" OR "person with hearing impairment" OR "people with hearing impairment")

S23 TI ("visually impaired person*" OR "visually impaired people" OR "person with vision impairment" OR "people with vision impairment") OR AB ("visually impaired person*" OR

"visually impaired people" OR "person with vision impairment" OR "people with vision impairment")

S24 TI (schizophrenia OR bipolar OR "major depressi*" OR "anxiety disorder*" OR "mental health disabilit*" OR "mental health impairment") OR AB (schizophrenia OR bipolar OR "major depressi*" OR "anxiety disorder*" OR "mental health disabilit*" OR "mental health impairment")

S25 TI ("mentally ill person*" OR "mentally ill people" OR "person with mental illness" OR "people with mental illness") OR AB ("mentally ill person*" OR "mentally ill people" OR "person with mental illness" OR "people with mental illness")

S26 TI (autism OR autistic OR neurodivergen* OR "cognitive disorder*" OR "cognitive impairment" OR communication disorder* OR language disorder* OR speech disorder* OR dyslexia OR aphasia OR "learning disabilit*") OR AB (autism OR autistic OR neurodivergen* OR "cognitive disorder*" OR "cognitive impairment" OR communication disorder* OR language disorder* OR speech disorder* OR dyslexia OR aphasia OR "learning disabilit*")

S27 TI (attention deficit hyperactivity disorder OR ADHD) OR AB (attention deficit hyperactivity disorder OR ADHD)

S28 S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27

S29 (MH "Health Services for Persons with Disabilities")

S30 (MH "Preventive Health Care")

S31 (MH "Guideline Adherence")

S32 (MH "Health Screening") OR (MH "Cancer Screening")

S33 TI (prevent OR preventive OR prevention) AND TI (care OR service OR services)

S34 S30 OR S31 OR S32 OR S33

S35 S28 AND S34

S36 S29 OR S35

S37 TX breast OR mammogra*

S38 TX "cervical cancer" OR "pap smear" or papanicolaou

S39 TX (colorectal OR colon OR colonic OR rectal OR rectum OR rectosigmoid OR adenomat*) AND TX (cancer* OR carcinoma* OR adenocarcinoma* OR malignan* OR tumor* OR tumour* OR neoplas* OR polyp*)

S40 TX colonoscop* OR colonograph*

S41 TX depression OR depressive OR depressed OR suicid* OR anxiet* OR anxious

S42 TX hypertension OR hypertensive OR "blood pressure" OR SBP OR DBP

S43 TX diabet* OR prediabet* OR pre-diabet* OR "impaired glucose tolerance" OR "impaired fasting glucose" OR "glucose intolerance"

S44 TX tobacco OR nicotine OR smoking OR smoker* OR cigar* OR vape OR vaping

S45 TX obes* OR overweight OR weight OR "body fat" OR adipos

S46 TX "human immunodeficiency virus" OR HIV

S47 TX "intimate partner violence" OR "elder abuse" OR "spouse abuse" OR "battered women" OR "domestic violence"

S48 TX (abusive OR violence OR violent OR assault) AND TX (partner OR spouse OR husband OR wife)

S49 TX (osteoporosis OR osteoporotic OR bone density) AND TX fracture*

S50 (MH "Substance Use Disorders+")

S51 TX alcohol OR drug OR drugs OR substance* OR opioid*
 S52 TX breastfeed* OR breastfed OR "breast feed*" OR "breast fed" OR lactation
 S53 TX fall OR falls OR faller* OR falling
 S54 TX (pregnant or pregnancy or antenatal or ante-natal or prenatal or pre-natal or perinatal or peri-natal or postnatal or post-natal or antepartum or ante-partum or peripartum or peri-partum or postpartum or post-partum or maternal or puerperal) AND TX (depression or depressive or depressed or dysthym* or anxious or anxiety)
 S55 TX diet or dietary or exercise or healthy or weight reduction or physical fitness or active or activity or train or training
 S56 (MH "Exercise")
 S57 TX "sexually transmitted infection" OR "sexually transmitted disease" OR sti* OR std*
 S58 S37 OR S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR S49 OR S50 OR S51 OR S52 OR S53 OR S54 OR S55 OR S56 OR S57
 S59 S36 AND S58
 S60 S36 AND S58 Limiters - Published Date: 19900101-20231231; Research Article; Exclude Pre-CINAHL; Exclude MEDLINE records; Human; Language: English

Database: Elsevier Embase

('disabled person'/exp OR 'adl disability'/exp OR 'walking difficulty'/exp OR 'paraplegia'/exp OR 'quadriplegia'/exp OR 'immobility'/exp OR 'limited mobility'/exp OR 'physical disability'/exp OR 'neurodisability'/exp OR 'hearing impairment' OR 'blindness' OR 'schizophrenia' OR 'bipolar disorder'/exp OR 'major depression' OR 'anxiety disorder' OR 'developmental disorder'/exp OR 'intellectual impairment'/exp OR 'cognitive defect' OR 'dementia'/exp OR 'disorders of higher cerebral function' OR 'communication disorder'/exp OR 'attention deficit hyperactivity disorder'/exp OR disabled:ti OR disabling:ti OR disability:ti OR disabilities:ti OR limitation:ti OR impairment:ti OR disorder:ti OR 'activities of daily living':ti OR paraplegi*:ti OR quadripleg*:ti OR amputee*:ti OR wheelchair*:ti OR cane:ti OR walker:ti OR scooter:ti OR 'mobility device':ti OR 'hearing impaired':ti OR 'vision impair*':ti OR 'visually impair*':ti OR schizophre*:ti OR bipolar:ti OR 'major depress*':ti OR anxiety:ti OR 'mental* ill*':ti OR autism:ti OR autistic:ti OR 'attention deficit':ti OR adhd:ti) AND ('primary prevention'/exp OR 'preventive health service'/exp OR 'protocol compliance'/exp OR 'mass screening'/exp OR (((prevent OR preventive OR prevention) NEAR/5 (service* OR care)):ti) OR (prevent*:ti AND ('health care disparity'/exp OR 'health care access'/exp))) AND (breast:ti,ab OR mammogra*:ti,ab OR ((cervical NEAR/3 cancer):ti,ab) OR (((pap OR papanicolaou) NEAR/2 test*):ti,ab) OR smear:ti,ab OR (((colorectal OR colon OR colonic OR rectal OR rectum OR rectosigmoid OR adenomat*) NEAR/3 (cancer* OR carcinoma* OR adenocarcinoma* OR malignan* OR tumor* OR tumour* OR neoplas* OR polyp*)):ti,ab) OR colonoscop*:ti,ab OR colonograph*:ti,ab OR depression:ti,ab OR depressive:ti,ab OR depressed:ti,ab OR suicid*:ti,ab OR anxiet*:ti,ab OR anxious:ti,ab OR hypertension:ti,ab OR hypertensive:ti,ab OR 'blood pressure':ti,ab OR sbp:ti,ab OR dbp:ti,ab OR diabet*:ti,ab OR prediabet*:ti,ab OR 'pre diabet*':ti,ab OR 'impaired glucose tolerance':ti,ab OR 'impaired fasting glucose':ti,ab OR 'glucose intolerance':ti,ab OR tobacco:ti,ab OR nicotine:ti,ab OR smoking:ti,ab OR smoker*:ti,ab OR cigar*:ti,ab OR vape:ti,ab OR vaping:ti,ab OR obes*:ti,ab OR overweight:ti,ab OR weight:ti,ab OR 'body fat':ti,ab OR adipos*:ti,ab OR 'human immunodeficiency virus':ti,ab OR 'hiv':ti,ab OR 'intimate partner violence':ti,ab OR 'elder abuse':ti,ab OR 'spouse abuse':ti,ab OR 'battered women':ti,ab OR 'domestic violence':ti,ab OR (((abuse OR abusive OR violence OR

violent OR assault) NEAR/3 (partner OR spouse OR husband OR wife)):ti,ab) OR ((osteoporosis:ti,ab OR osteoporotic:ti,ab OR bone:ti,ab) AND density:ti,ab AND fracture*:ti,ab) OR ((alcohol:ti,ab OR drug:ti,ab OR drugs:ti,ab OR substance*:ti,ab OR opioid*:ti,ab OR opiate*:ti,ab OR amphetamine*:ti,ab OR amfetamine*:ti,ab OR benzodiazepine*:ti,ab OR morphine:ti,ab OR methadone:ti,ab OR prescription*:ti,ab OR phencyclidine*:ti,ab OR solvent*:ti,ab OR inhalant*:ti,ab OR barbiturate*:ti,ab OR depressant*:ti,ab OR sedative*:ti,ab OR stimulant*:ti,ab OR ritalin:ti,ab OR adderall:ti,ab OR methylphenidate:ti,ab OR fentanyl:ti,ab OR oxycodone:ti,ab OR hydrocodone:ti,ab OR marijuana:ti,ab OR cannabis:ti,ab OR cannabinoid:ti,ab OR cocaine:ti,ab OR methamphetamine:ti,ab OR psilocybin:ti,ab) AND adj3:ti,ab AND (addict:ti,ab OR addiction:ti,ab OR abuse:ti,ab OR abusing:ti,ab OR abusive:ti,ab OR misuse:ti,ab OR 'mis use':ti,ab OR misusing:ti,ab OR 'mis using':ti,ab OR illicit:ti,ab OR illegal:ti,ab OR unlawful:ti,ab OR unsanction*:ti,ab OR habit*:ti,ab OR dependen*:ti,ab OR disorder:ti,ab OR disorders:ti,ab OR consumption:ti,ab OR diversion:ti,ab)) OR breastfeed*:ti,ab OR breastfed:ti,ab OR 'breast feed*':ti,ab OR 'breast fed':ti,ab OR lactation:ti,ab OR fall:ti,ab OR falls:ti,ab OR faller*:ti,ab OR falling:ti,ab OR (((pregnant OR pregnancy OR antenatal OR 'ante natal' OR prenatal OR 'pre natal' OR perinatal OR 'peri natal' OR postnatal OR 'post natal' OR antepartum OR 'ante partum' OR peripartum OR 'peri partum' OR postpartum OR 'post partum' OR maternal OR puerperal) NEAR/3 (depression OR depressive OR depressed OR dysthym* OR anxious OR anxiety)):ti,ab) OR (((diet:ti,ab OR dietary:ti,ab OR exercise:ti,ab OR healthy:ti,ab OR weight:ti,ab) AND reduction:ti,ab OR physical:ti,ab) AND fitness:ti,ab) OR active:ti,ab OR activity:ti,ab OR train:ti,ab OR training:ti,ab OR (sexually:ti,ab AND transmitted:ti,ab) OR sti*:ti,ab OR std*:ti,ab OR chlamydia:ti,ab OR gonorrh*:ti,ab OR syphilis:ti,ab OR papilloma*:ti,ab OR hpv:ti,ab OR trichomonas:ti,ab OR trichomoniasis:ti,ab OR hepatitis:ti,ab OR herpes:ti,ab OR warts:ti,ab) AND [english]/lim AND [1990-2023]/py AND 'article'/it AND [embase]/lim NOT ([embase]/lim AND [medline]/lim) NOT 'case report'

Gray Literature Searches

We searched resources about general health care barriers and interventions for people with disabilities. Sources included those mentioned by team subject matter experts, project key informants and technical experts, AHRQ, as well as a number of other relevant sources. Sources included:

- Administration for Community Living / National Institute on Disability, Independent Living, and Rehabilitation Research
- American Association of People with Disabilities
- Centers for Medicare & Medicaid Services
- Disability Rights Education & Defense Fund
- Interagency Committee on Disability Research
- National Rehabilitation Information Center
- Office of the Assistant Secretary for Planning and Evaluation
- UK National Institute for Health and Care Excellence
- US Department of Health and Human Services
- VA Office of Research & Development

Inclusion and Exclusion Criteria

The inclusion and exclusion criteria for the overall review are specified in Table A-1. Outcomes not related to included clinical preventive services are listed in Table A-2.

Table A-1. PICOTS and corresponding inclusion and exclusion criteria

Element	Include	Exclude
Population	<ul style="list-style-type: none"> • People with disabilities (including: physical; cognitive/intellectual/developmental;^a sensory; serious psychiatric/mental illness^b) • Adults and children • Specific populations of interest: <ul style="list-style-type: none"> - Age - Gender^c - Race/ethnicity - Economic status - LGBTQ+ status - Geographic location (regional and urban/rural) - Immigration status - Incarcerated - Unhoused - Language spoken - Use of a guardian/proxy for healthcare decisions 	<ul style="list-style-type: none"> • Studies that do not include people with disabilities or do not report outcomes according to disability status
Intervention	<ul style="list-style-type: none"> • Interventions to mitigate barriers and/or improve the receipt of clinical preventive services among people with disabilities (e.g., modification in policies, practices, and procedures; effective communication; the physical accessibility of facilities; educational/training programs for healthcare providers) • Characteristics/components of interventions (KQ3) may include elements such as: staffing, funding, facilities, equipment, training • Clinical preventive services listed in Appendix A, Table A-2, derived from USPSTF Grade A and Grade B recommendations: <ul style="list-style-type: none"> - Screening (anxiety disorders, breast cancer, cervical cancer, colorectal cancer, depression, HIV infection, hypertension, intimate partner violence, osteoporosis, diabetes, unhealth drug or alcohol use) - Interventions or behavioral counseling (breastfeeding, falls prevention, perinatal depression, tobacco use/cessation, weight loss, healthy diet and physical activity, sexually transmitted infections) 	<ul style="list-style-type: none"> • Interventions that do not address barriers to receipt of clinical preventive services for people with disabilities • Preventive services not listed in Appendix A, Table A-2.
Comparator	<ul style="list-style-type: none"> • Another intervention • No intervention • No comparator (when adequate comparative studies are lacking) 	NA
Outcome	<ul style="list-style-type: none"> • Receipt of clinical preventive service • Quality of receipt of clinical preventive service • Health outcomes related to clinical preventive service • Patient satisfaction • Patient well-being • Harms of the intervention program 	<ul style="list-style-type: none"> • Cost-effectiveness • Outcomes not related to included clinical preventive services in Appendix A, Table A-2.
Timing	<ul style="list-style-type: none"> • All 	NA
Setting	<ul style="list-style-type: none"> • Primary care outpatient clinics • Community health clinics • Settings referable from primary care settings • Emergency departments • Other settings (e.g., home, residence, mobile care units) • United States or countries with "very high" United Nations Human Development Index 	<ul style="list-style-type: none"> • Inpatient and residential settings

Abbreviations: KQ = Key Question; LGBTQ+ = lesbian, gay, bisexual, transgender, queer/questioning plus/others; NA = not applicable; USPSTF = United States Preventive Services Task Force

^a Cognitive, intellectual, and/or developmental disabilities – alone or in combination – as well as acquired cognitive disabilities

^b Serious psychiatric/mental illness includes schizophrenia, bipolar disorder, and major depressive disorder

^c In this report we have used gender-specific terms (e.g., “women with disabilities”) when those terms were used by included studies; we have also used gender-neutral terms (e.g. “people with disabilities”) in some places when summarizing.

Table A-2. Included clinical preventive services - United States Preventive Services Task Force, A & B recommendations¹

Type of Service	Topic	Description
Screening	Anxiety Disorders in Adults	The USPSTF recommends screening for anxiety disorders in adults, including pregnant and postpartum persons 64 years or younger, including pregnant and postpartum women.
	Anxiety in Children and Adolescents	The USPSTF recommends screening for anxiety in children and adolescents aged 8 to 18 years.
	Breast Cancer	The USPSTF recommends biennial screening mammography for women aged 50 to 74 years.
	Cervical Cancer	The USPSTF recommends screening for cervical cancer every 3 years with cervical cytology alone in women aged 21 to 29 years. For women aged 30 to 65 years, the USPSTF recommends screening every 3 years with cervical cytology alone, every 5 years with high-risk hrHPV testing alone, or every 5 years with hrHPV testing in combination with cytology (cotesting).
	Colorectal Cancer	The USPSTF recommends screening for colorectal cancer in adults aged 45 to 49 years and all adults aged 50 to 75 years.
	Depression in Adults	The USPSTF recommends screening for depression in the adult population, including pregnant and postpartum persons, as well as older adults.
	Depression in Children and Adolescents	The USPSTF recommends screening for major depressive disorder in adolescents aged 12 to 18 years.
	Human Immunodeficiency Virus (HIV) Infection	The USPSTF recommends that clinicians screen for HIV infection in adolescents and adults aged 15 to 65 years, including pregnant and postpartum women. Younger adolescents and older adults who are at increased risk of infection should also be screened.
	Hypertension in Adults	The USPSTF recommends screening for hypertension in adults 18 years or older without known hypertension with office blood pressure measurement. The USPSTF recommends obtaining blood pressure measurements outside of the clinical setting for diagnostic confirmation before starting treatment.
	Intimate Partner Violence	The USPSTF recommends that clinicians screen for intimate partner violence in women of reproductive age and provide or refer women who screen positive to ongoing support services.
	Osteoporosis to Prevent Fractures	The USPSTF recommends screening for osteoporosis with bone measurement testing to prevent osteoporotic fractures in women 65 years and older, and in postmenopausal women younger than 65 years who are at increased risk of osteoporosis, as determined by a formal clinical risk assessment tool.
	Prediabetes and Type 2 Diabetes	The USPSTF recommends screening for prediabetes and type 2 diabetes in asymptomatic adults aged 35 to 70 years who have overweight or obesity. Clinicians should offer or refer patients with prediabetes to effective preventive interventions.

Type of Service	Topic	Description
	Unhealthy Drug Use	The USPSTF recommends screening by asking questions about unhealthy drug use in adults age 18 years or older. Screening should be implemented when services for accurate diagnosis, effective treatment, and appropriate care can be offered or referred. (Screening refers to asking questions about unhealthy drug use, not testing biological specimens.)
	Unhealthy Alcohol Use in Adolescents and Adults: Screening and Behavioral Counseling Interventions	The USPSTF recommends screening for unhealthy alcohol use in primary care settings in adults 18 years or older, including pregnant women, and providing persons engaged in risky or hazardous drinking with brief behavioral counseling interventions to reduce unhealthy alcohol use.
Interventions and Behavioral Counseling	Breastfeeding	The USPSTF recommends providing interventions during pregnancy and after birth to support breastfeeding.
	Falls Prevention in Community-Dwelling Older Adults	The USPSTF recommends exercise interventions to prevent falls in community-dwelling adults 65 years or older who are at increased risk for falls.
	Perinatal Depression, Preventive Interventions	The USPSTF recommends that clinicians provide or refer pregnant and postpartum persons who are at increased risk of perinatal depression to counseling interventions.
	Tobacco Smoking Cessation	The USPSTF recommends that clinicians ask all adults about tobacco use, including pregnant persons, advise them to stop using tobacco, and provide behavioral interventions and FDA-approved pharmacotherapy for cessation to nonpregnant adults who use tobacco, or behavioral interventions for cessation to pregnant persons who use tobacco.
	Tobacco Use in Children and Adolescents	The USPSTF recommends that primary care clinicians provide interventions, including education or brief counseling, to prevent initiation of tobacco use among school-aged children and adolescents who have not started to use tobacco.
	Weight Loss to Prevent Obesity-related Morbidity and Mortality in Adults	The USPSTF recommends that clinicians offer or refer adults with a body mass index (BMI) of 30 or higher (calculated as weight in kilograms divided by height in meters squared) to intensive, multicomponent behavioral interventions.
	Healthy Diet & Physical Activity for Cardiovascular Disease Prevention	The USPSTF recommends offering or referring adults with cardiovascular disease risk factors to behavioral counseling interventions to promote a healthy diet and physical activity.
	Sexually Transmitted Infections	The USPSTF recommends behavioral counseling for all sexually active adolescents and for adults who are at increased risk for sexually transmitted infections.

Abbreviations: BMI = body mass index; FDA = US Food and Drug Administration; hrHPV = human papillomavirus; USPSTF = United States Preventive Services Task Force

Risk of Bias (Quality) Assessment of Individual Studies

We assessed risk of bias for Key Questions 2, 3, and 4 based on study design with criteria as outlined below.

Risk of Bias Criteria for Randomized Controlled Trials²

- Adequate randomization of participants.
- Allocation of treatment adequately concealed.
- Groups similar at baseline.
- Intention-to-treat (ITT) analysis performed.
- All eligible trial participants included in analyses post-randomization.
- Overall loss to followup or missing data for outcomes less than 20%.
- Loss to followup or missing data similar across groups.
- Comparable groups maintained in outcome analysis.
- Intervention(s), and comparator(s) well described.
- Outcome ascertainment similar between groups.
- Outcome assessors blinded or outcomes objectively measured.

Risk of Bias Criteria for Nonrandomized Intervention Studies³

- Study attempted to enroll all or a random sample of patients meeting inclusion criteria.
- Groups similar at baseline or important confounding and modifying variables accounted for.
- Overall loss to followup or missing data for outcomes less than 20 percent.
- Loss to followup or missing data similar across groups.
- Comparable groups maintained in outcome analysis.
- Intervention(s) or exposure(s), and comparator(s) well described.
- Outcome ascertainment similar between groups.
- Outcome assessors blinded or outcomes objectively measured.

Additionally, we performed quality assessment for qualitative studies included in Key Question 1 using the screening questions and qualitative category criteria of the Mixed Methods Appraisal Tool (MMAT), Version 2018,⁴ with guidance from an expert on the team:

Quality Assessment Criteria for Qualitative Studies⁴

- Research questions or aims of the research well specified.
- Collected data allow for addressing the research question.
- Qualitative approach is appropriate to answer the research question.
- Qualitative data collection methods are adequate to address the research question.
- Findings are adequately derived from the data.
- Interpretation of the results is substantiated by data.
- Coherence between qualitative data sources, collection, analysis, and interpretation.

Quality Assessment Criteria for Surveys⁵

- Recruitment and/or inclusion well specified.
- Response rate adequate.
- Missing data.
- Approach clinically sensible (comprehensiveness, clarity and face validity formally assessed).
- Instruments validated in the population studied.

Randomized controlled trials and nonrandomized intervention studies were rated as “low,” “moderate/medium,” or “high” risk of bias using the below as a guide for each study design. Qualitative studies were rated as “good,” “fair,” or “poor” quality.

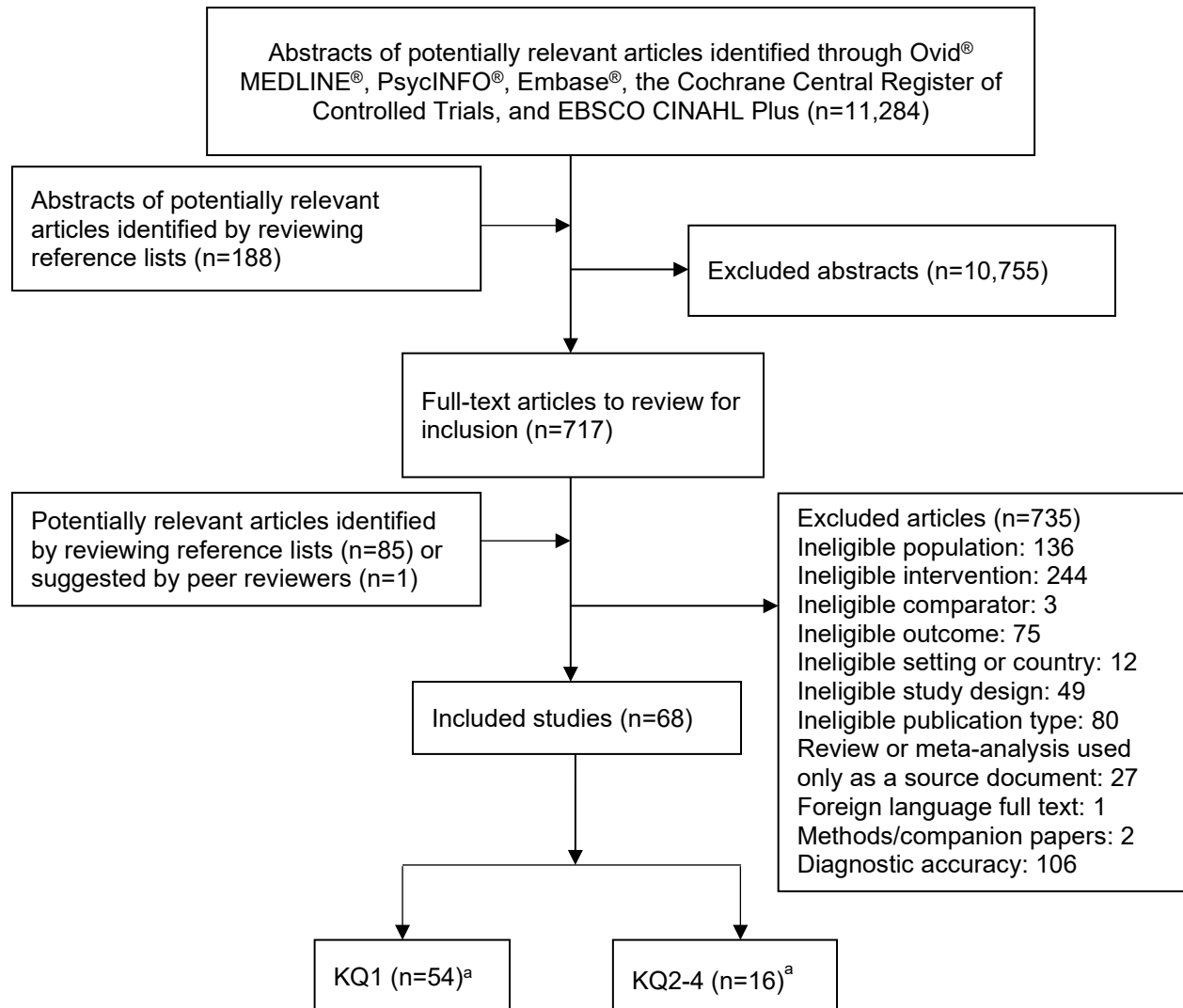
Studies rated **low risk of bias** are considered to have the least risk of bias, and their results are generally considered valid. “Low risk of bias” studies include clear descriptions of the population, setting, interventions, and comparison groups; a valid method for allocation of patients to treatment; low dropout rates and clear reporting of dropouts; appropriate means for preventing bias; and appropriate measurement of outcomes.

Studies rated **moderate risk of bias** are susceptible to some bias, though not enough to invalidate the results. These studies may not meet all the criteria for a rating of low risk of bias, but no flaw is likely to cause major bias. The study may be missing information, making it difficult to assess limitations and potential problems. The “medium risk of bias” category is broad, and studies with this rating will vary in their strengths and weaknesses. The results of some medium risk of bias studies are likely to be valid, while others may be only possibly valid.

Studies rated **high risk of bias** have significant flaws that imply biases of various types that may invalidate the results. They have a serious or “fatal” flaw in design, analysis, or reporting; large amounts of missing information; discrepancies in reporting; or serious problems in the delivery of the intervention. In general, observational studies that do not perform adjustment for potential confounders will be assessed as “high risk of bias.” This is because it is likely the results of these studies are at least as likely to reflect flaws in the study design as the true difference between the compared interventions. We will not exclude studies rated high risk of bias a priori, but high risk of bias studies will be considered to be less reliable than low or medium risk of bias studies when synthesizing the evidence, particularly if discrepancies between studies are present.

Appendix B. Literature Flow Diagram

Figure B-1. Literature flow diagram



Abbreviations: KQ = Key Question

^a Two studies were identified for both KQ 1 and KQ 2-4

Appendix C. List of Included Studies

1. Agaronnik N, Pendo E, Lagu T, et al. Ensuring the reproductive rights of women with intellectual disability. *J Intellect Dev Disabil*. 2020;45(4):365-76. doi: 10.3109/13668250.2020.1762383. PMID: 35046755.
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Appendix D. List of Excluded Studies

Table D-1. Exclusion codes

Exclusion Code	Exclusion Reason
E1	Ineligible population
E2	Ineligible (or no) intervention
E3	Ineligible (or no) comparator
E4	Ineligible outcome
E5	Ineligible setting or country
E6	Ineligible study design
E7	Ineligible publication type
E8	Systematic review or meta-analysis used as source document for pearling
E9	Foreign language full text
E10	Methods/companion papers that do not report outcomes
DA	diagnostic accuracy

- Abdulla S, Spassiani NA. Experiences of healthcare professionals in cancer assessment and treatment for people with learning disabilities: a literature review. *Cancer Nurs.* 2021;20(2):28-34. doi: 10.7748/cnp.2021.e1654. Exclusion: E8
- Abells D, Kirkham YA, Ornstein MP. Review of gynecologic and reproductive care for women with developmental disabilities. *Curr Opin Obstet Gynecol.* 2016;28(5):350-8. doi: 10.1097/GCO.0000000000000299. PMID: 27379438. Exclusion: E7
- Agaronnik ND, El-Jawahri A, Iezzoni LI. Implications of physical access barriers for breast cancer diagnosis and treatment in women with mobility disability. *J Disabil Policy Stud.* 2022;33(1):46-54. doi: 10.1177/10442073211010124. PMID: 35875606. Exclusion: E2
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Appendix E. Evidence Tables

Please see the Excel file submitted with the report.

Appendix F. Risk of Bias and Quality Assessment Tables

Please see the Excel file submitted with the report.

Appendix G. Barriers and Facilitators, Key Question 1 – Tables by Clinical Preventive Service and Disability Type

Anxiety Disorder Screening

Table G-1. Screening for anxiety disorder in adults – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Person-level	<ul style="list-style-type: none"> • Difficulty identifying mood/emotions • Cultural or religious barriers to interventions/screening 	<ul style="list-style-type: none"> • Reassurance about PwD's emotions/feelings
Provider-level	<ul style="list-style-type: none"> • Belief that screening tools have limitations • Lack of awareness of screening tools 	<ul style="list-style-type: none"> • Belief that screening tools are useful • Commitment to health promotion • Good rapport with provider • Awareness of guidelines
Healthcare system	<ul style="list-style-type: none"> • Lack of screening tool 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Breast Cancer Screening

Table G-2. Breast cancer screening – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Assistance with finding PCP • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening not necessary/skeptical • Difficulty booking and attending appointments • Difficulty staying still • Distrust of the healthcare system • Fear of screening because of family history of breast cancer • Fear and/or embarrassment • Feeling dependent on others • Feeling vulnerable • Lacking health education • Not understanding the screening process • Pain or discomfort with screening • PwD not informed about insurance coverage • PwD time constraints • Treatment fatigue from disability/other comorbidities 	<ul style="list-style-type: none"> • PwD being health consciousness • PwD feeling in control • PwD understanding screening
Provider-level	<ul style="list-style-type: none"> • Lack of awareness of current guidelines • Lack of communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation • Negative attitude toward patient/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Education and/or knowledge about PwD • Explanation provided before screening procedure • Good rapport with provider • Listening to patients' needs • Provider adjusting screening procedures to accommodate patient's disability • Providing referrals • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of appropriate provider • Lacking insurance • No reminder to receive screening • Provider time constraints 	<ul style="list-style-type: none"> • Care continuity • Communication about disability needs • Reduction of cost to receive service • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible facility • Inaccessible mammography equipment 	<ul style="list-style-type: none"> • Accessible facility • Accessible mammography equipment • Familiar location
Policy-level	<ul style="list-style-type: none"> • Insurance not fully covering cost 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Table G-3. Breast cancer screening – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Decision-making delegate's refusal • Family/caregiver feeling overwhelmed • Family/caregiver lacking communication skills to accommodate disability • Family/caregiver lacking health knowledge • History of sexual assault • Lacking health education/promotion in community • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Family/caregiver being health conscious • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Difficulty staying still for the procedure • Distrusting of the healthcare system • Fear and/or embarrassment • Fear from having family history of breast cancer • Feeling vulnerable • Inability to give informed consent • Lacking health education • Not understanding screening process • Pain or discomfort with screening • PwD time constraints • Treatment fatigue from disability/other comorbidities 	<ul style="list-style-type: none"> • PwD being health conscious • PwD feeling in control • PwD having coping strategies • Having family history of cancer make PwD more receptive to screening • Learning cancer symptoms • Understanding screening
Provider-level	<ul style="list-style-type: none"> • Provider lacking awareness of current guidelines • Provider lacking communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation for screening • Negative attitude toward patient/ableism • No explanation before screening procedure • Not assessing need for decision-making delegate • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Allowing preparatory visits • Commitment to health promotion • Explanation provided before screening procedure • Good rapport with PwD • Knowledge of individual patient and preferences • Listening to PwD's needs • Measures to reduce pain during procedure • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Appointment time constraints • Lack of appropriate providers • Lack of care coordination • Lack of communication about disability needs • Lacking insurance 	<ul style="list-style-type: none"> • Allow sedation of PwD • Allowing alternative procedure • Bringing screening procedure to where PwD lives • Care continuity • Care coordination • Extra appointment time • Schedule female provider • Reduction of cost to receive service • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility • Sensory environment 	<ul style="list-style-type: none"> • Closer location
Accessible communication	<ul style="list-style-type: none"> • Lacking internet access • Literacy issues 	<ul style="list-style-type: none"> • Accessible communication methods
Policy-level	<ul style="list-style-type: none"> • Caregiver lacking decision-making authority 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Table G-4. Breast cancer screening – sensory disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening is not necessary • Difficulty with booking and attending appointments • Distrust of the healthcare system • Fear from having family history of breast cancer • Feeling vulnerable • Pain or discomfort of screening • Lacking health education 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Lack of communication skills to accommodate disability • Negative attitude toward PwD/ableism • No explanation before screening procedure 	<ul style="list-style-type: none"> • Explanation provided before screening procedure • Good rapport with PwD • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lacking insurance • No reminder to receive screening 	<ul style="list-style-type: none"> • Care continuity
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility 	<ul style="list-style-type: none"> • NA
Accessible communication	<ul style="list-style-type: none"> • Inaccessible communication method 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Table G-5. Breast cancer screening – serious mental illness disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • Reliable transportation • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing in faith as protection • Believing screening not necessary/skeptical • Difficulty with booking and attending appointments • Distrust of the healthcare system • Fear and/or embarrassment • Fear of screening because of family history of cancer • Feeling vulnerable • Lack of motivation • Lacking health education • Not understanding screening • Pain or discomfort with screening • Treatment fatigue from disability/comorbidities 	<ul style="list-style-type: none"> • Believing in faith as protection • Having physical symptoms of screening condition • PwD being health conscious
Provider-level	<ul style="list-style-type: none"> • Focus on acute needs • Lack of communication skills to accommodate disability • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation • Lack of rapport with provider • Lack of training to provide screening service • Negative attitude toward PwD/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Awareness of guidelines • Commitment to health promotion • Competency in providing screening service • Education and/or knowledge about PwD • Explanation provided before service • Good communication skills to accommodate disability • Good rapport with provider • Listening to PwD's needs • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of care coordination • Lack of communication about disability needs • Lack of resources • Lacking insurance • Long wait time for appointments • No reminder to receive screening • Overwhelming number of reminders • Appointment time constraint 	<ul style="list-style-type: none"> • Care continuity • Care coordination • Providing faster results • Reminder to receive screening • Scheduling female provider
Accessibility of facilities	<ul style="list-style-type: none"> • Aggravating sensory environment • Inaccessible facility 	<ul style="list-style-type: none"> • Familiar location
Policy-level	<ul style="list-style-type: none"> • Insurance not fully covering cost 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Table G-6. Breast cancer screening – multiple co-occurring disabilities

Category	Barriers	Facilitators
Provider-level	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Explanation provided before service
Healthcare system	<ul style="list-style-type: none"> • Lack of sedation during the procedure 	<ul style="list-style-type: none"> • NA
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible mammography equipment • Mobility issue 	<ul style="list-style-type: none"> • Accessible facility

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Cervical Cancer Screening

Table G-7. Cervical cancer screening – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Transportation issue 	<ul style="list-style-type: none"> • NA
Person-level	<ul style="list-style-type: none"> • Believing screening is not necessary/skeptical • Distrust of the healthcare system • Fear and/or embarrassment • Feeling dependent on others • Lacking health education • Not informed about insurance coverage • Pain or discomfort with screening • Time constraints 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Lack of knowledge about disability and providing care for PwD • Lack of provider recommendation • Lack of rapport with provider • Negative attitude toward patient/ableism • Not listening to person with disabilities 	<ul style="list-style-type: none"> • Assistance with dressing • Education and/or knowledge about PwD • Listening to PwD's needs • Mobility assistance • Understanding PwD's needs/ barriers
Healthcare system	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Longer appointments
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility 	<ul style="list-style-type: none"> • Accessible equipment • Familiar location

Abbreviations: NA = not applicable; PwD = people with a disability/person with a disability

Table G-8. Cervical cancer screening – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Abusive family/caregiver's presence prevent patient from responding honestly • History of sexual assault • Transportation issue 	<ul style="list-style-type: none"> • Allowing chaperone during appointment • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Distrust of the healthcare system • Fear and/or embarrassment • Inability to give informed consent • Lacking health education • Not understanding screening process • Pain or discomfort with screening 	<ul style="list-style-type: none"> • Having family history of cancer make PwD more receptive to screening • Learning cancer symptoms
Provider-level	<ul style="list-style-type: none"> • Difficulty communicating with person with IDD • Discomfort discussing sexuality • Lack of communication skills to accommodate disability • Lack of knowledge about disability providing care for PwD • Misconceptions about sexual activity and need for screening • Negative attitude toward PwD/ableism • No explanation before screening procedure 	<ul style="list-style-type: none"> • Accommodating disability • Commitment to health promotion • Encouraging patient control of screening process • Explanation provided before screening procedure • Good rapport with provider • Knowledge of individual patient/preferences • Listening to PwD's needs • Providing referrals
Healthcare system	<ul style="list-style-type: none"> • Lack of care coordination • Lacking insurance • Time constraints, provider 	<ul style="list-style-type: none"> • Scheduling female provider • Specialist referral • Sedation of PwD
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible facility 	<ul style="list-style-type: none"> • NA
Accessible communication	<ul style="list-style-type: none"> • Lacking internet access • Literacy issues 	<ul style="list-style-type: none"> • Accessible communication methods
Policy-level	<ul style="list-style-type: none"> • Caregiver lacking decision-making authority 	<ul style="list-style-type: none"> • Guidance documents

Abbreviations: IDD = intellectual/developmental disability; NA = not applicable; PwD = people with disabilities/person with a disability

Table G-9. Cervical cancer screening – sensory disability: barriers and facilitators

Category	Barriers	Facilitators
Provider-level	<ul style="list-style-type: none"> • No explanation provided before service 	<ul style="list-style-type: none"> • NA
Healthcare system	<ul style="list-style-type: none"> • No reminder to receive screening 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable

Table G-10. Cervical cancer screening – serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Transportation issue 	<ul style="list-style-type: none"> • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening not necessary/skeptical • Difficulty booking and attending appointments • Distrust of the healthcare system • Fear and/or embarrassment • Lack of motivation • Lacking health education • Not understanding screening process • Pain or discomfort with screening • Treatment-fatigue from disability/comorbidities 	<ul style="list-style-type: none"> • Having physical symptoms of screening condition • Health consciousness
Provider-level	<ul style="list-style-type: none"> • Focus on acute needs • Lack of knowledge about disability and providing care for PwD • Lack of rapport with provider • Lack of provider recommendation • Lack of training to provide screening service • Negative attitude toward PwD/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Awareness of guidelines • Commitment to health promotion • Competency in providing screening service • Education and/or knowledge about PwD • Explanation provided before service • Good communication skills to accommodate disability • Good rapport with provider • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of communication about disability needs • Lack of reminder to receive screening • Time constraints, provider • Long wait time for appointments • Overwhelming number of reminders 	<ul style="list-style-type: none"> • Care continuity • Care coordination • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Aggravating sensory environment 	<ul style="list-style-type: none"> • Familiar location

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Colorectal Cancer Screening

Table G-11. Colorectal cancer screening – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Lacking support/advocacy • Transportation issue 	<ul style="list-style-type: none"> • NA
Person-level	<ul style="list-style-type: none"> • Fear and/or embarrassment • Feeling dependent on others • Not understanding screening process • Socioeconomic barriers (e.g. fixed income, inadequate insurance) 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Lack of provider recommendation • Not listening to PwD's needs • Negative attitude toward PwD/ableism 	<ul style="list-style-type: none"> • NA
Healthcare system	<ul style="list-style-type: none"> • Long wait time for appointments 	<ul style="list-style-type: none"> • NA
Accessibility of facilities	<ul style="list-style-type: none"> • Inaccessible equipment • Inaccessible facility • Inaccessible test preparation process 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Table G-12. Colorectal cancer screening – serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Transportation issues 	<ul style="list-style-type: none"> • Supportive family/caregiver
Person-level	<ul style="list-style-type: none"> • Believing screening not necessary/skeptical • Difficulty booking and attending appointments • Distrust of the healthcare system • Fear and/or embarrassment • Lack of motivation • Lacking health education • Not understanding screening process • PwD time constraints • Treatment-fatigue from disability/comorbidities 	<ul style="list-style-type: none"> • Having physical symptoms of screening condition • Health consciousness
Provider-level	<ul style="list-style-type: none"> • Focus on acute needs • Lack of knowledge about disability and providing care for PwD • Lack of training to provide screening service • Lack of provider recommendation • Lack of rapport with provider • Negative attitude toward PwD/ableism • No explanation before screening procedure • Not listening to PwD's needs 	<ul style="list-style-type: none"> • Awareness of guidelines • Commitment to health promotion • Competency in providing screening service • Education and/or knowledge about PwD • Explanation provided before service • Good communication skills to accommodate disability • Good rapport with provider • Understanding PwD's needs and barriers
Healthcare system	<ul style="list-style-type: none"> • Lack of communication about disability needs • Lack of reminder to receive screening • Overwhelming number of reminders • Time constraints, provider 	<ul style="list-style-type: none"> • Care continuity • Care coordination • Reminder to receive screening
Accessibility of facilities	<ul style="list-style-type: none"> • Aggravating sensory environment 	<ul style="list-style-type: none"> • Familiar location

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Depression Screening

Table G-13. Screening for depression risk in adults – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Person-level	<ul style="list-style-type: none"> • Cultural or religious barriers to interventions/screening • Difficulty identifying mood/emotions 	<ul style="list-style-type: none"> • Reassurance about PwD's emotions/feelings
Provider-level	<ul style="list-style-type: none"> • Belief that screening tools have limitations • Lack of awareness of screening tools 	<ul style="list-style-type: none"> • Awareness of guidelines • Belief that screening tools are useful • Commitment to health promotion • Good rapport with provider
Healthcare system	<ul style="list-style-type: none"> • Lack of screening tool 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Table G-14. Screening for depression risk in adults – sensory disability: barriers and facilitators

Category	Barriers	Facilitators
Person-level	<ul style="list-style-type: none"> • Fear and/or embarrassment • Distrust of the healthcare system 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Lack of knowledge about disability and providing care for PwD • Lack of training to provide screening service 	<ul style="list-style-type: none"> • NA
Healthcare system	<ul style="list-style-type: none"> • Wait time for appointments 	<ul style="list-style-type: none"> • NA
Policy-level	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Guidance documents

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Screening for HIV Infection

Table G-15. Screening for HIV infection – sensory disability: barriers and facilitators

Category	Barriers	Facilitators
Healthcare system	<ul style="list-style-type: none"> • Breach of confidentiality when using interpreters, adults and adolescents 	<ul style="list-style-type: none"> • NA
Accessible communication	<ul style="list-style-type: none"> • Inaccessible communication due to lack of interpreter 	<ul style="list-style-type: none"> • NA

Abbreviations: NA = not applicable

Unhealthy Alcohol Use Screening

Table G-16. Unhealthy alcohol use screening – cognitive/intellectual/developmental disability: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • Conflicting response between PwD and family/caregiver 	<ul style="list-style-type: none"> • Additional information gained from home visit • Family/caregiver increase accuracy of response
Person-level	<ul style="list-style-type: none"> • Cognitive impairment interferes with screening • Lack of confidence in answering screening questions • Fear and/or embarrassment 	<ul style="list-style-type: none"> • Belief that screening tools are useful • PwD being health consciousness
Provider-level	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Belief that screening tools are useful, provider • Commitment to health promotion • Explanation provided before service • Good rapport with provider
Healthcare system	<ul style="list-style-type: none"> • Lack of screening tool • Time constraints, provider 	<ul style="list-style-type: none"> • NA
Accessible communication	<ul style="list-style-type: none"> • Inaccessible communication methods 	<ul style="list-style-type: none"> • Accessible communication methods

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Interventions To Prevent Falls in Community-Dwelling Adults

Table G-17. Falls prevention in community-dwelling adults – cognitive/intellectual/developmental disability:^a barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Group setting increases PwD's motivation
Provider-level	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Knowledge of individual patient and preferences
Healthcare system	<ul style="list-style-type: none"> • Lack of resources • Lack of care coordination 	<ul style="list-style-type: none"> • Bringing service to PwD • Providing faster results • Care continuity

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

^aFrom a single study in people with dementia

Behavioral Counseling To Promote Healthy Diet and Physical Activity To Prevent Cardiovascular Disease

Table G-18. Cardiovascular screening, diet, and exercise – serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Person-level	<ul style="list-style-type: none"> Lack of motivation Booking and attending appointments 	<ul style="list-style-type: none"> NA
Healthcare system	<ul style="list-style-type: none"> Time constraints, provider 	<ul style="list-style-type: none"> Screening in a primary care setting

Abbreviations: NA = not applicable

Sexually Transmitted Infection Prevention

Table G-19. Sexually transmitted infection prevention – physical disability: barriers and facilitators

Category	Barriers	Facilitators
Person-level	<ul style="list-style-type: none"> Disability makes intervention more difficult to use 	<ul style="list-style-type: none"> NA

Abbreviations: NA = not applicable

Table G-20. Sexually transmitted infection prevention –serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> High-risk behaviors within community group 	<ul style="list-style-type: none"> Education/support in community groups Education/information from peers Providing support/advocacy
Person-level	<ul style="list-style-type: none"> Cultural or religious barriers to interventions Difficulty adhering to health-promoting behaviors due to mental illness Socioeconomic barriers 	<ul style="list-style-type: none"> NA
Provider-level	<ul style="list-style-type: none"> Belief that screening service is out of specific provider's scope of practice Discomfort discussing sexuality Fear of misconception of intervention's intent Focus on acute care Lack of knowledge about disability and providing care for PwD Lack of training to provide screening service Misconceptions about sexual activity and need for screening Respect of patient's boundary for discussing personal matter 	<ul style="list-style-type: none"> Aligning screening with PwD's goals/concerns Belief that screening is related to significant clinical issues Collaboration with community groups to promote prevention services Commitment to health promotion Competency in providing screening Knowledge of cultural norm and adapt role to gain patient's trust Knowledge of individual PwD and preferences Providing referrals Providing screening service during acute care Receiving training to deliver screening service Younger provider more comfortable discussing sexuality and provide related service

Category	Barriers	Facilitators
Healthcare system	<ul style="list-style-type: none"> • Lack of resources for health service delivery (not further defined) • Lack of care continuity 	<ul style="list-style-type: none"> • Additional resources to deliver/follow-up screening service • Allowing training with patients as "billable" service • Clinic setting norms, expectations, and boundaries for patient behavior • Commitment to health promotion • Insurance coverage • Integration of screening service training with existing provider training • Scheduling female provider
Accessible communication	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Intervention tailored to prevent aggravating depression • Professionalized communication methods

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Table G-20. Sexually transmitted infection prevention – serious mental illness: barriers and facilitators

Category	Barriers	Facilitators
Environment-level	<ul style="list-style-type: none"> • High-risk behaviors within community group 	<ul style="list-style-type: none"> • Education/support in community groups • Education/information from peers • Providing support/advocacy
Person-level	<ul style="list-style-type: none"> • Cultural or religious barriers to interventions • Difficulty adhering to health-promoting behaviors due to mental illness • Socioeconomic barriers 	<ul style="list-style-type: none"> • NA
Provider-level	<ul style="list-style-type: none"> • Belief that screening service is out of specific provider's scope of practice • Discomfort discussing sexuality • Fear of misconception of intervention's intent • Focus on acute care • Lack of knowledge about disability and providing care for PwD • Lack of training to provide screening service • Misconceptions about sexual activity and need for screening • Respect of patient's boundary for discussing personal matter 	<ul style="list-style-type: none"> • Aligning screening with PwD's goals/concerns • Belief that screening is related to significant clinical issues • Collaboration with community groups to promote prevention services • Commitment to health promotion • Competency in providing screening • Knowledge of cultural norm and adapt role to gain patient's trust • Knowledge of individual PwD and preferences • Providing referrals • Providing screening service during acute care • Receiving training to deliver screening service • Younger provider more comfortable discussing sexuality and provide related service
Healthcare system	<ul style="list-style-type: none"> • Lack of resources for health service delivery (not further defined) • Lack of care continuity 	<ul style="list-style-type: none"> • Additional resources to deliver/follow-up screening service • Allowing training with patients as "billable" service • Clinic setting norms, expectations, and boundaries for patient behavior • Commitment to health promotion • Insurance coverage • Integration of screening service training with existing provider training • Scheduling female provider
Accessible communication	<ul style="list-style-type: none"> • NA 	<ul style="list-style-type: none"> • Intervention tailored to prevent aggravating depression • Professionalized communication methods

Abbreviations: NA = not applicable; PwD = people with disabilities/person with a disability

Appendix H. Supplemental Tables on Barriers and Facilitators, Key Question 1

Table H-1. Studies reporting barrier and facilitator general categories, by clinical preventive service and type of disability

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability	Physical Disability	Cognitive Disability ^a	Cognitive Disability ^a	Sensory Disability	Sensory Disability	SMI Disability	SMI Disability	Multiple Disabilities	Multiple Disabilities
		<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>
Anxiety disorder screening for adults (n=1)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	Goodarzi 2018	Goodarzi 2018	--	--	--	--	--	--
	Provider	--	--	Goodarzi 2018	Goodarzi 2018	--	--	--	--	--	--
	Healthcare system	--	--	Goodarzi 2018	--	--	--	--	--	--	--
	Accessibility - HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Breast cancer screening (n=36)	Environment	Angus 2012 Barr 2008 Kilic 2019 Mele 2005 Suzuki 2013 Todd 2011 Verger 2005	Barr 2008 Peters 2016 Suzuki 2013	Arana Chicas 2020 Armin 2022 Barr 2008 Bates 2019 Greenwood 2014 McIlpatrick 2011 Sullivan 2004 Swaine 2013 Taggart 2011 Willis 2015	Arana Chicas 2020 Armin 2022 Barr 2008 Greenwood 2014 Sullivan 2004 Swaine 2013 Taggart 2011 Truesdale- Kennedy 2011 Willis 2015 Willis 2016	Barr 2008 Mele 2005	Barr 2008	Barr 2008 Clifton 2016 Miller 2007 Verger 2005	Barr 2008 Clifton 2016 Miller 2007	--	--

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability ^a <i>Barrier</i>	Cognitive Disability ^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
	Person	Barr 2008 Kilic 2019 Magasi 2019 Mele 2005 Nosek 1997 Persaud 2000 Poulos 2011 Shah 2022 Stillman 2014 Suzuki 2013 Todd 2011	Barr 2008 Poulos 2011 Suzuki 2013	Arana Chicas 2020 Armin 2022 Barr 2008 Bates 2019 Greenwood 2014 McIlfatrick 2011 Reidy 2018 Sullivan 2004 Swaine 2013 Sykes 2022 Taggart 2011 Truesdale- Kennedy 2011 Willis 2015 Willis 2016	Arana Chicas 2020 Armin 2022 Barr 2008 Greenwood 2014 Sykes 2022 Wilkinson 2011	Barr 2008 Mele 2005	--	Barr 2008 Clifton 2016 Kahn 2005 Miller 2007	Clifton 2016 Kahn 2005	--	--
	Provider	Angus 2012 Barr 2008 Kilic 2019 Magasi 2019 Nosek 1997 Persaud 2000 Peters 2016 Shah 2022 Stillman 2014 Stillman 2017 Suzuki 2013 Todd 2011 Verger 2005	Barr 2008 Jarman 2012 Kilic 2019 Mele 2005 Nandam 2018 Peters 2016 Poulos 2011 Shah 2022 Suzuki 2013 Todd 2011 Verger 2005	Arana Chicas 2020 Armin 2022 Barr 2008 Bates 2019 Greenwood 2014 McIlfatrick 2011 Sullivan 2004 Swaine 2013 Wilkinson 2011 Willis 2015 Willis 2016	Arana Chicas 2020 Armin 2022 Barr 2008 Greenwood 2014 Swaine 2013 Sykes 2022 Taggart 2011 Wilkinson 2011	Barr 2008 Mele 2005	Barr 2008 Jarman 2012 Mele 2005	Barr 2008 Clifton 2016 Miller 2007 Rockson 2016 Verger 2005	Barr 2008 Clifton 2016 Kahn 2005 Miller 2007 Verger 2005	--	Jarman 2012
	Healthcare system	Barr 2008 Mele 2005 Suzuki 2013 Verger 2005	Barr 2008 Peters 2016 Poulos 2011 Suzuki 2013 Todd 2011	Armin 2022 Greenwood 2014 Sullivan 2004 Willis 2015 Willis 2016	Arana Chicas 2020 Barr 2008 Greenwood 2014 Sullivan 2004 Sykes 2022 Willis 2015	Barr 2008 Mele 2005	Barr 2008	Barr 2008 Clifton 2016 Kahn 2005 Miller 2007 Verger 2005	Barr 2008 Clifton 2016 Kahn 2005 Miller 2007	Arana Chicas 2020	--

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability ^a <i>Barrier</i>	Cognitive Disability ^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
	Accessibility- HCF	Angus 2012 Barr 2008 Kilic 2019 Magasi 2019 Mele 2005 Nandam 2018 Nosek 1997 Peters 2016 Poulos 2011 Shah 2022 Stillman 2017 Todd 2011 Welch Saleeby 2016	Jarman 2012 Kilic 2019 Nandam 2018 Peters 2016 Poulos 2011 Shah 2022 Todd 2011 Verger 2005 Welch Saleeby 2016	Armin 2022 Barr 2008 Sullivan 2004 Taggart 2011 Willis 2016	Sullivan 2004	Barr 2008 Mele 2005 Welch Saleeby 2016	--	Barr 2008 Clifton 2016	Clifton 2016	Arana Chicas 2020 Bates 2019 McIlfatrick 2011	Jarman 2012 Verger 2005
	Accessible communication	--	--	Armin 2022 Willis 2015	Arana Chicas 2020 Armin 2022 Greenwood 2014 Taggart 2011 Truesdale- Kennedy 2011 Wilkinson 2011 Willis 2015	Barr 2008 Mele 2005 Welch Saleeby 2016	--	--	--	--	--
	Policy	Suzuki 2013	--	Armin 2022	--	--	--	Kahn 2005	--	--	--
Cervical cancer screening (n=19)	Environment	Angus 2012 Kilic 2019	--	Agaronnik 2020 Armin 2022	Armin 2022 Broughton 2000 Swaine 2013	--	--	Clifton 2016 Miller 2007	Clifton 2016	--	--
	Person	Kilic 2019 Nosek 1997 Persaud 2000 Shah 2022	--	Armin 2022 Broughton 2000 Lloyd 2014 Swaine 2013 Sykes 2022	Armin 2022 Sykes 2022	--	--	Clifton 2016 Miller 2007	Clifton 2016	--	--

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability ^a <i>Barrier</i>	Cognitive Disability ^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
	Provider	Angus 2012 Kilic 2019 Nosek 1997 Shah 2022 Stillman 2014 Stillman 2017	Halcomb 2019 Kilic 2019 Shah 2022	Agaronnik 2020 Armin 2022 Broughton 2000 Lloyd 2014 Swaine 2013 Sykes 2022 Wood 2007	Agaronnik 2020 Armin 2022 Broughton 2000 Lloyd 2014 Sykes 2022 Wood 2007	Fang 2016	--	Clifton 2016 Miller 2007 Rockson 2016	Clifton 2016 Miller 2007	--	--
	Healthcare system	--	Halcomb 2019	Agaronnik 2020 Armin 2022 Lloyd 2014 Swaine 2013 Wood 2007	Agaronnik 2020 Broughton 2000 Sykes 2022	Fang 2016	--	Clifton 2016 Miller 2007	Clifton 2016 Miller 2007	--	--
	Accessibility-HCF	Kilic 2019 Nosek 1997 Persaud 2000 Shah 2022 Stillman 2017	Halcomb 2019 Kilic 2019 Shah 2022	Armin 2022	--	--	--	Clifton 2016	Clifton 2016	--	--
	Accessible communication	--	--	Armin 2022 Lloyd 2014 Wood 2007	Armin 2022	--	--	--	--	--	--
	Policy	--	--	Armin 2022	Wood 2007	--	--	--	--	--	--
Colorectal cancer screening (n=6)	Environment	Angus 2012 Solenberg 2021	--	--	--	--	--	Clifton 2016	Clifton 2016	--	--
	Person	Solenberg 2021	--	--	--	--	--	Clifton 2016	Clifton 2016	--	--
	Provider	Angus 2012 Stillman 2014 Stillman 2017	--	--	--	--	--	Clifton 2016 Rockson 2016	Clifton 2016	--	--
	Healthcare system	Solenberg 2021	--	--	--	--	--	Clifton 2016	Clifton 2016	--	--
	Accessibility-HCF	Solenberg 2021 Stillman 2014 Stillman 2017	--	--	--	--	--	Clifton 2016	Clifton 2016	--	--

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability	Physical Disability	Cognitive Disability ^a	Cognitive Disability ^a	Sensory Disability	Sensory Disability	SMI Disability	SMI Disability	Multiple Disabilities	Multiple Disabilities
		<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>	<i>Barrier</i>	<i>Facilitator</i>
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Depression screening for adults (n=3)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	Goodarzi 2018	Goodarzi 2018	Nollett 2019 Nollett 2020	--	--	--	--	--
	Provider	--	--	Goodarzi 2018	Goodarzi 2018	Nollett 2019 Nollett 2020	--	--	--	--	--
	Healthcare system	--	--	Goodarzi 2018	--	Nollett 2020	--	--	--	--	--
	Accessibility-HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	Nollett 2019	--	--	--	--
HIV infection screening (n=1)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	--	--	--	--	--	--	--	--
	Provider	--	--	--	--	--	--	--	--	--	--
	Healthcare system	--	--	--	--	Bat-Chava 2005	--	--	--	--	--
	Accessibility-HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	Bat-Chava 2005	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Unhealthy alcohol use screening (n=2)	Environment	--	--	Randall James 2015	Randall James 2015 Thake 2015	--	--	--	--	--	--
	Person	--	--	Randall James 2015 Thake 2015	Randall James 2015	--	--	--	--	--	--

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability	Physical Disability	Cognitive Disability ^a	Cognitive Disability ^a	Sensory Disability	Sensory Disability	SMI Disability	SMI Disability	Multiple Disabilities	Multiple Disabilities
		Barrier	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier	Facilitator	Barrier	Facilitator
	Provider	--	--	--	Randall James 2015 Thake 2015	--	--	--	--	--	--
	Healthcare system	--	--	Thake 2015	--	--	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	Randall James 2015	Randall James 2015	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Falls prevention in community- dwelling older adults (n=1)	Environment	--	--	--	Burgon 2019	--	--	--	--	--	--
	Person	--	--	--	--	--	--	--	--	--	--
	Provider	--	--	--	Burgon 2019	--	--	--	--	--	--
	Healthcare system	--	--	Burgon 2019	Burgon 2019	--	--	--	--	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
Healthy diet and physical activity for CVD prevention (n=1)	Environment	--	--	--	--	--	--	--	--	--	--
	Person	--	--	--	--	--	--	Pitman 2011	--	--	--
	Provider	--	--	--	--	--	--	--	--	--	--
	Healthcare system	--	--	--	--	--	--	Pitman 2011	Pitman 2011	--	--
	Accessibility- HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	--	--	--
	Policy	--	--	--	--	--	--	--	--	--	--
		--	--	--	--	--	--	--	--	--	--

USPSTF Clinical Preventive Service	Barrier/ Facilitator Category	Physical Disability <i>Barrier</i>	Physical Disability <i>Facilitator</i>	Cognitive Disability^a <i>Barrier</i>	Cognitive Disability^a <i>Facilitator</i>	Sensory Disability <i>Barrier</i>	Sensory Disability <i>Facilitator</i>	SMI Disability <i>Barrier</i>	SMI Disability <i>Facilitator</i>	Multiple Disabilities <i>Barrier</i>	Multiple Disabilities <i>Facilitator</i>
Behavioral counseling to prevent STIs (n=3)	Environment	--	--	--	--	--	--	Encandela 2003	Encandela 2003	--	--
	Person	Becker 1997	--	--	--	--	--	Agenor 2013 Encandela 2003	--	--	--
	Provider	--	--	--	--	--	--	Agenor 2013 Encandela 2003	Agenor 2013 Encandela 2003	--	--
	Healthcare system	--	--	--	--	--	--	Encandela 2003	Agenor 2013 Encandela 2003	--	--
	Accessibility-HCF	--	--	--	--	--	--	--	--	--	--
	Accessible communication	--	--	--	--	--	--	--	Encandela 2003	--	--
	Policy	--	--	--	--	--	--	--	--	--	--

Abbreviations: CVD=cardiovascular disease; HCF= healthcare facility; SMI = serious mental illness; STI = sexually transmitted infection; USPSTF=United States Preventive Services Task Force

^a Cognitive, intellectual, and/or developmental disabilities – alone or in combination

Table H-2. Commonly reported barriers and facilitators by clinical preventive service type^a

Barrier/ Facilitator CATEGORY	Barriers and Facilitators	Anxiety Disorder Screening	Breast Cancer Screening	Cervical Cancer Screening	Colorectal Cancer Screening	Depression Screening	HIV Infection Screening	Unhealthy Alcohol Use Screening	Falls Prevention	CVD Prevention	Counseling To Prevent STIs
BARRIER Environment	Lacking support/advocacy	--	√	--	√	--	--	--	--	--	--
	Transportation issue	--	√	√	√	--	--	--	--	--	--
BARRIER Person	Belief screening not necessary/ skeptical	--	√	√	√	--	--	--	--	--	--
	Cultural or religious barriers to intervention	√	--	--	--	√	--	--	--	--	√
	Difficulty booking and attending appointments	--	√	√	√	--	--	--	--	√	--
	Distrust of healthcare system	--	√	√	√	√	--	--	--	--	--
	Fear and/or embarrassment	√	√	√	√	√	--	--	--	--	--
	Feeling dependent on others	--	√	√	√	--	--	--	--	--	--
	Inability to give informed consent	--	√	√	--	--	--	--	--	--	--
	Lacking motivation	--	√	√	√	--	--	--	--	√	--
	Lacking health education	--	√	√	√	--	--	--	--	--	--
	Not informed about insurance coverage	--	√	√	--	--	--	--	--	--	--
	Not understanding screening process	--	√	√	√	--	--	--	--	--	--
	Pain or discomfort with screening	--	√	√	--	--	--	--	--	--	--
	Socioeconomic barriers	--	--	--	√	--	--	--	--	--	√
	Time constraints	--	√	√	√	--	--	--	--	--	--
	Treatment-fatigue from disability/ comorbidities	--	√	√	√	--	--	--	--	--	--

Barrier/ Facilitator CATEGORY	Barriers and Facilitators	Anxiety Disorder Screening	Breast Cancer Screening	Cervical Cancer Screening	Colorectal Cancer Screening	Depression Screening	HIV Infection Screening	Unhealthy Alcohol Use Screening	Falls Prevention	CVD Prevention	Counseling To Prevent STIs
BARRIER Provider	Discomfort discussing sexuality	--	--	√	--	--	--	--	--	--	√
	Focus on acute needs	--	√	√	√	--	--	--	--	--	√
	Lack of communication skills to accommodate disability	--	√	√	--	--	--	--	--	--	--
	Lack of knowledge about disability and providing care for PwD	--	√	√	√	√	--	--	--	--	√
	Lack of provider recommendation	--	√	√	√	--	--	--	--	--	--
	Lack of rapport with provider	--	√	√	√	--	--	--	--	--	--
	Lack of training to provide screening service	--	√	√	√	√	--	--	--	--	√
	Misconception about sexual activity and need for screening	--	--	√	--	--	--	--	--	--	√
	Negative attitude toward PwD/ ableism	--	√	√	√	--	--	--	--	--	--
	No explanation before screening procedure	--	√	√	√	--	--	--	--	--	--
	Not listening to PwD's needs	--	√	√	√	--	--	--	--	--	--
BARRIER Healthcare system	Lack of care coordination	--	√	√	√	--	--	--	√	--	--
	Lack of communication about disability needs	--	√	√	√	--	--	--	--	--	--
	Lack of reminder to receive screening	--	√	√	√	--	--	--	--	--	--
	Lacking resources	--	√	√	√	--	--	--	√	--	--
	Lack of screening tool	√	--	--	--	√	--	√	--	--	--

Barrier/ Facilitator CATEGORY	Barriers and Facilitators	Anxiety Disorder Screening	Breast Cancer Screening	Cervical Cancer Screening	Colorectal Cancer Screening	Depression Screening	HIV Infection Screening	Unhealthy Alcohol Use Screening	Falls Prevention	CVD Prevention	Counseling To Prevent STIs
	Lacking insurance	--	√	√	--	--	--	--	--	--	--
	Long wait for appointments	--	√	√	√	√	--	--	--	--	--
	Provider time constraints	--	√	√	√	--	--	√	--	√	--
BARRIER Accessibility of health facility	Aggravating sensory environment	--	√	√	√	--	--	--	--	--	--
	Inaccessible equipment	--	√	√	√	--	--	--	--	--	--
	Inaccessible facility	--	√	√	√	--	--	--	--	--	--
BARRIER Accessible communication	Literacy issue	--	√	√	--	--	--	--	--	--	--
	Inaccessible communication methods	--	√	--	--	--	√	√	--	--	--
FACILITATOR Environment	Supportive family/caregiver	--	√	√	√	--	--	--	--	--	--
FACILITATOR Person	Health consciousness	--	√	√	√	--	--	√	--	--	--
FACILITATOR Provider	Accommodating disability	--	√	√	--	--	--	--	--	--	--
	Awareness of guidelines	√	√	√	√	√	--	--	--	--	--
	Belief that screening tools are useful	√	--	--	--	√	--	√	--	--	--
	Commitment to health promotion	√	√	√	√	√	--	√	--	--	√
	Competency in providing screening service	--	√	√	√	--	--	--	--	--	√
	Education and/or knowledge about PwD	--	√	√	√	--	--	--	--	--	--
	Explanation provided before service	--	√	√	√	--	--	√	--	--	--

Barrier/ Facilitator CATEGORY	Barriers and Facilitators	Anxiety Disorder Screening	Breast Cancer Screening	Cervical Cancer Screening	Colorectal Cancer Screening	Depression Screening	HIV Infection Screening	Unhealthy Alcohol Use Screening	Falls Prevention	CVD Prevention	Counseling To Prevent STIs
	Good rapport with provider	√	√	√	√	√	--	√	--	--	--
	Knowledge of individual PwD and preferences	--	√	√	--	--	--	--	√	--	√
	Listening to PwD's needs	--	√	√	--	--	--	--	--	--	--
	Providing referrals	--	√	√	--	--	--	--	--	--	√
	Understanding PwD's needs and barriers	--	√	√	√	--	--	--	--	--	--
FACILITATOR Healthcare system	Bringing service to PwD	--	√	--	--	--	--	--	√	--	--
	Care continuity	--	√	√	√	--	--	--	√	--	--
	Care coordination	--	√	√	√	--	--	--	--	--	--
	Longer appointment time	--	√	√	--	--	--	--	--	--	--
	Reminder to receive screening	--	√	√	√	--	--	--	--	--	--
	Scheduling female provider	--	√	√	--	--	--	--	--	--	√
	Sedation of PwD	--	√	√	--	--	--	--	--	--	--
FACILITATOR Accessibility of health facility	Accessible equipment	--	√	√	--	--	--	--	--	--	--
	Familiar location	--	√	√	√	--	--	--	--	--	--
FACILITATOR Accessible communication	Accessible communication methods	--	√	√	--	--	--	√	--	--	--
FACILITATOR Policy	Guidance documents	--	--	√	--	√	--	--	--	--	--

Abbreviations: CVD = cardiovascular disease; PwD = people with disabilities; STI = sexually transmitted infection.

^a Listed barriers and facilitators were reported by at least two unique studies and for at least two included clinical preventive services.

√ = Barrier/facilitator reported

Appendix I. Appendix References

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