



# **Topic Brief: Compassion Centered Care**

**Date:** 4/10/2020

**Nomination Number: 0894** 

**Purpose:** This document summarizes information addressing a nomination submitted on 12/09/2019 through the Effective Health Care Website. This information was used to inform the Evidence-based Practice Center (EPC) Program decisions about whether to produce an evidence report on the topic, and if so, what type of evidence report would be most suitable.

**Issue:** Compassion centered healthcare focuses on improving alignment between clinical care and patients' unique needs with the goal of improving patient experience, engagement in care, and, ultimately, health outcomes. While multiple educational interventions to facilitate the delivery of compassion centered care have been attempted in recent years, it remains unclear which interventions are most effective.

#### Recommendation

The AHRQ Effective Healthcare EPC will not conduct a systematic review for this nomination because questions 1, 2 and 4 of the nomination are sufficiently answered by the existing systematic reviews. Question 3 should be sufficiently addressed by an upcoming AHRQ technical brief. We identified no systematic reviews and only one primary study that addressed question 5 of the nomination, indicating that there are not enough studies to enable a systematic review to address this question.

## **Key Findings**

Seven <sup>1-7</sup> systematic reviews evaluated a variety of educational interventions focused on clinician skills and behaviors to facilitate compassion centered care (question 1). Four other systematic reviews<sup>4,8-10</sup> assessed the effectiveness of interventions aimed at improving healthcare provider well-being and professional satisfaction and to reduce compassion fatigue (question 2). One inprocess AHRQ technical brief <sup>11</sup> will address strategies to facilitate patient- caregiver engagement and to improve patient care outcomes (question 3). Three systematic reviews <sup>12-14</sup> and in-process AHRQ systematic review<sup>15</sup> assessed psychosocial and other support interventions to improve patient caregiver well-being, quality of life, and self-efficacy (question 4). We found only one experimental study<sup>16</sup> which explored a range of interventions to facilitate compassion centered individualized care at the institutional level (question 5).

#### **Background**

Compassion and a patient centered approach are critical determinants of high-quality healthcare. Compassion can be defined as "the emotional response to another's pain or suffering involving an authentic desire to help"<sup>17</sup>. Compassionate care embodies understanding of the experience of others, the ability to express rather than suppress compassion, and a commitment to delivering care in a way customized to an individual's psychological and physical needs<sup>18</sup>. Numerous

studies acknowledged the positive influence of educational interventions to facilitate compassionate care on patient satisfaction and health outcomes. Many studies also identified the reciprocal response in healthcare providers whereby promoting compassion centered care also increases clinicians' professional satisfaction, improves well-being and reduces medical errors<sup>19-</sup>
<sup>22</sup>

Healthcare organizational factors were shown to have a powerful influence on the delivery of compassion centered care and may serve to either facilitate or inhibit patient centered care<sup>23</sup>. Excessive clinician workload, staff shortage, limited resources, lack of decision-making independence, administrative priorities focused on economic incentives and limited appreciation of healthcare provider engagement tend to inhibit compassion centered care<sup>24</sup>. On the other hand, organizational cultures that support clinicians and recognize and reward individual centered care promote compassionate care delivery<sup>25</sup>.

## **Nomination Summary**

This topic was nominated by a healthcare practitioner who is interested in exploring the scope and effectiveness of healthcare provider and organizational level interventions to facilitate compassion centered care delivery. In discussions with the nominator, we expanded the scope to also include educational interventions to facilitate compassion centered care among patient caregivers and interventions to support well-being and prevents burnout of clinicians and caregivers.

## Scope

- 1. For healthcare providers, what are the benefits and harms of interventions aimed at facilitating compassion centered care?
- 2. For healthcare providers, what are the benefits and harms of interventions to support healthcare provider well-being and professional satisfaction outcomes?
- 3. For patient caregivers, what are the benefits and harms of interventions to improve caregiving skills?
- 4. For patient caregivers, what are the benefits and harms of interventions to support caregiver well-being and quality-of-life outcomes?
- 5. On an organizational level, what are the benefits and harms of interventions to facilitate the delivery of compassion centered patient care?

**Table 1.** Questions and PICOS (population, intervention, comparator, outcome, and setting)

	table in questions and rive to (population, intervention, comparator, editorne, and cetting)		
Questions	Interventions to facilitate compassion centered care for healthcare providers	Interventions to support healthcare provider well-being and satisfaction	
Population	Healthcare providers (physicians, nurses, medical assistants, other patient care staff)	s, Healthcare providers (physicians, nurses, medical assistants, other patient care staff)	
Interventions	Educational interventions to develop knowledge, skills and behaviors (e.g., training to improve verbal and nonverbal communication and reflective listening skills, etc.)	Interventions to reduce compassion fatigue and improve well-being (e.g., strategies to reduce stress, mindfulness education, resilience and self-compassion skills building, etc.)	
Comparators	Standard practice	Standard practice	

Questions	Interventions to facilitate compassion centered care for healthcare providers	Interventions to support healthcare provider well-being and satisfaction
Outcomes	Patient health outcomes:  Patient adherence to treatment Frequency of hospital admissions Hospital length of stay Frequency of Emergency Department visits Mortality  Patient satisfaction outcomes: Patient quality-of-life Patient perception of provider compassion Patient satisfaction with care  Provider skills related outcomes: Provider expression of compassion Provider patient communication skills Provider satisfaction outcomes: Provider professional quality-of-life Provider professional satisfaction	Provider well-being outcomes: Provider psychological health Provider subjective well-being Provider health related behaviors  Provider satisfaction outcomes: Provider quality-of-life Provider professional satisfaction  Provider skills related outcomes Provider expression of compassion Provider patient communication skills Provider emotion handling skills
Setting	Outpatient	Outpatient

Questions	Interventions to improve caregiving skills of patient caregivers	4. Interventions to support patient caregiver well-being and quality-of-life
Population	Patient caregivers	Patient caregivers
Interventions	Educational interventions to improve caregiving skills (e.g., education about the patient's disease process, education regarding disease specific daily care/symptom management, etc.)	<ul> <li>Educational interventions to enhance caregiver self-care skills (e.g., resilience skills training)</li> <li>Caregiver support interventions (e.g. caregiver peer support groups)</li> <li>Caregiver respite programs</li> </ul>
Comparators	No intervention	No intervention

Questions	Interventions to improve caregiving skills of patient caregivers	Interventions to support patient caregiver well-being and quality-of-life
Outcomes	Patient health outcomes:  Patient adherence to treatment Frequency of hospital admissions Hospital length of stay Frequency of Emergency Department visits Mortality  Patient satisfaction outcomes: Patient quality-of-life Patient perception of provider compassion Patient satisfaction with care  Caregiver satisfaction outcomes: Caregiver satisfaction outcomes: Caregiver satisfaction Caregiver satisfaction Caregiver self-efficacy in providing care	Caregiver well-being outcomes:
Setting	Outpatient	Outpatient

Questions	5. Organizational level interventions to facilitate the delivery of compassion centered care
Population	Healthcare organizations
Interventions	Interventions, policies and practices to facilitate compassion centered patient care on an organizational level, including:  Interventions to improve healthcare delivery Interventions to increase patient and caregiver engagement Patient centered long-term care planning
Comparators	Standard care

Questions	Organizational level interventions to facilitate the delivery of compassion centered care
Outcomes	Patient health outcomes:  Patient adherence to treatment Frequency of hospital admissions Hospital length of stay Frequency of Emergency Department visits Mortality
	Patient satisfaction outcomes:
	Provider satisfaction outcomes:
Setting	Outpatient

#### **Assessment Methods**

See Appendix A.

#### **Summary of Literature Findings**

For question 1 we identified seven systematic reviews<sup>1-7</sup> that evaluated a range of healthcare provider focused educational interventions to facilitate compassion centered care, including empathetic communication skills, motivational interviewing and addressing patient concerns and emotional responses.

For question 2 we located four systematic reviews<sup>4,8-10</sup> evaluating the effectiveness of interventions to support healthcare provider well-being and satisfaction. Two systematic reviews<sup>4,8</sup> assessed the effectiveness of narrative medicine and expressive arts interventions on fostering clinicians' wellness and professional satisfaction and reducing compassion fatigue. An additional systematic review<sup>3</sup> evaluated the effectiveness of yoga and mindfulness interventions, structured meditation, music therapy and development of resiliency skills to mitigate compassion fatigue among clinicians and community service workers. Finally, one systematic review<sup>5</sup> focused on stress reduction and relaxation-based interventions to counteract secondary traumatic stress and burnout among palliative healthcare professionals.

An in-process AHRQ technical brief <sup>11</sup> addressed question 3. This technical brief, anticipated to be published in 2020, focuses on strategies to facilitate patient, family and caregiver engagement. It will present the analytic framework and provide an evidence map of the existing literature on interventions to engage patients and their caregivers into shared decision-making and management of their chronic health conditions.

For question 4 we identified three Cochrane systematic reviews <sup>12-14</sup> and in-process AHRQ systematic review<sup>15</sup> exploring various interventions to support patient caregivers. One review<sup>13</sup> focused on telephone-based interventions to provide educational and psychosocial support to caregivers caring for patients with a broad range of chronic conditions. Another systematic review<sup>12</sup> explored the effectiveness of psychosocial support interventions targeted to caregivers of people living with cancer. The third systematic review evaluated supportive interventions for caregivers who care for neuro-oncologic patients<sup>14</sup>. An additional in-process AHRQ systematic review<sup>15</sup>, waiting to be published later this year, will evaluate a spectrum of care interventions to support well-being of caregivers of patients with dementia.

We did not find any systematic reviews to address question 5 of the nomination as the majority of studies evaluating interventions to facilitate compassion centered care on an institutional level were conducted in the inpatient setting. We identified only one experimental study<sup>16</sup> that assessed interventions focused on facilitating the delivery of compassionate care in the outpatient setting.

**Table 2.** Literature identified for each Question

Question	Systematic reviews (3/2016-3/2020)	Primary studies (3/2015-3/2020)
Question 1:	Total: 7 <sup>1-7</sup>	Not assessed
Interventions to	<ul> <li>Cochrane − 2<sup>6,7</sup></li> </ul>	
facilitate	<ul> <li>Other – 5<sup>1-5</sup></li> </ul>	
compassion		
centered care for		
healthcare providers		
Question 2:	Total: 4 <sup>4, 8-10</sup>	Not assessed
Interventions to	Other – 4 <sup>4, 8-10</sup>	
support healthcare		
provider well-being		
and satisfaction		
Question 3:	Total: 1 <sup>11</sup>	Not assessed
Interventions to	<ul> <li>AHRQ in-process tech brief – 1<sup>11</sup></li> </ul>	
improve caregiving		
skills for patient		
caregivers		
Question 4:	Total: 4 <sup>12-15</sup>	Not assessed
Interventions to	• Cochrane – 3 <sup>12-14</sup>	
support caregiver	<ul> <li>AHRQ in-process systematic</li> </ul>	
well-being and	review – 1 <sup>15</sup>	
quality-of-life		
Question 5:	Total: 0	Total: 1 <sup>16</sup>
Organizational		• RCT – 1 <sup>16</sup>
interventions to		
facilitate .		
compassion		
centered care		

See Appendix B for detailed assessments of all EPC selection criteria.

#### **Summary of Selection Criteria Assessment**

This is an important topic with potential for impact. We found a total of fourteen systematic reviews<sup>1-10, 12-14</sup>, one in-process technical brief, <sup>11</sup> and one in-process systematic review<sup>15</sup> which together address questions 1–4 of the nomination. There were too few studies to develop a new systematic review for question 5.

#### References

- **1.** Durkin M, Gurbutt R, Carson J. Qualities, teaching, and measurement of compassion in nursing: A systematic review. Nurse Educ Today. 2018 Apr;63:50-8. doi: https://doi.org/10.1016/j.nedt.2018.01.025. PMID: 29407260
- **2.** Coffey A, Saab MM, Landers M, et al. The impact of compassionate care education on nurses: A mixed-method systematic review. J Adv Nurs. 2019 Nov;75(11):2340-51. doi: https://doi.org/10.1111/jan.14088. PMID: 31162701
- **3.** Patel S, Pelletier-Bui A, Smith S, et al. Curricula for empathy and compassion training in medical education: A systematic review. PLoS One. 2019;14(8):e0221412. doi: https://doi.org/10.1371/journal.pone.0221412. PMID: 31437225
- **4.** Milota MM, van Thiel G, van Delden JJM. Narrative medicine as a medical education tool: A systematic review. Med Teach. 2019 Jul;41(7):802-10. doi: https://doi.org/10.1080/0142159x.2019.1584274. PMID: 30983460
- **5.** Blomberg K, Griffiths P, Wengstrom Y, et al. Interventions for compassionate nursing care: A systematic review. Int J Nurs Stud. 2016 Oct;62:137-55. doi: https://doi.org/10.1016/j.ijnurstu.2016.07.009. PMID: 27494429
- **6.** Lakke SE, Meerman S. Does working alliance have an influence on pain and physical functioning in patients with chronic musculoskeletal pain; a systematic review. Journal of Compassionate Health Care. 2016 2016/01/15;3(1):1. doi: https://doi.org/10.1186/s40639-016-0018-7
- **7.** Moore P, Rivera S, Bravo G, et al. Communication skills training for healthcare professionals working with people who have cancer. Cochrane Database of Systematic Reviews. 2018 07/24;7. doi: https://doi.org/10.1002/14651858.CD003751.pub4
- **8.** Phillips CS, Becker H. Systematic Review: Expressive arts interventions to address psychosocial stress in healthcare workers. J Adv Nurs. 2019 Nov;75(11):2285-98. doi: https://doi.org/10.1111/jan.14043. PMID: 31074524
- **9.** Zanatta F, Maffoni M, Giardini A. Resilience in palliative healthcare professionals: a systematic review. Support Care Cancer. 2020 Mar;28(3):971-8. doi: https://doi.org/10.1007/s00520-019-05194-1. PMID: 31811483
- **10.** Cocker F, Joss N. Compassion Fatigue among Healthcare, Emergency and Community Service Workers: A Systematic Review. Int J Environ Res Public Health. 2016 Jun 22;13(6). doi: https://doi.org/10.3390/ijerph13060618. PMID: 27338436
- **11.** AHRQ. Strategies for Patient, Family and Caregiver Engagement: Technical Brief (In-Process). Agency for Healthcare Research and Quality (AHRQ). 2020. https://effectivehealthcare.ahrq.gov/products/family-engagement/protocol
- **12.** Treanor CJ, Santin O, Prue G, et al. Psychosocial interventions for informal caregivers of people living with cancer. Cochrane Database of Systematic Reviews. 2019(6). doi: https://doi.org/10.1002/14651858.CD009912.pub2. PMID: CD009912
- **13.** Corry M, Neenan K, Brabyn S, et al. Telephone interventions, delivered by healthcare professionals, for providing education and psychosocial support for informal caregivers of adults with diagnosed illnesses. Cochrane Database of Systematic Reviews. 2019(5). doi: https://doi.org/10.1002/14651858.CD012533.pub2. PMID: CD012533
- **14.** Boele FW, Rooney AG, Bulbeck H, et al. Interventions to help support caregivers of people with a brain or spinal cord tumour. Cochrane Database of Systematic Reviews. 2019(7). doi: https://doi.org/10.1002/14651858.CD012582.pub2. PMID: CD012582

- **15.** AHRQ. Care Interventions for People With Dementia (PWD) and Their Caregivers (In-Process). Agency for Healthcare Research and Quality (AHRQ). 2020. https://effectivehealthcare.ahrq.gov/products/care-interventions-pwd/protocol
- **16.** Gould LJ, Griffiths P, Barker HR, et al. Compassionate care intervention for hospital nursing teams caring for older people: a pilot cluster randomised controlled trial. BMJ Open. 2018 Feb 22;8(2):e018563. doi: https://doi.org/10.1136/bmjopen-2017-018563. PMID: 29472258
- **17.** Goetz JL, Keltner D, Simon-Thomas E. Compassion: an evolutionary analysis and empirical review. Psychol Bull. 2010;136(3):351-74. doi: https://doi.org/10.1037/a0018807. PMID: 20438142
- **18.** Trzeciak S, Roberts BW, Mazzarelli AJ. Compassionomics: Hypothesis and experimental approach. Med Hypotheses. 2017 Sep;107:92-7. doi: https://doi.org/10.1016/j.mehy.2017.08.015. PMID: 28915973
- **19.** Tierney S, Seers K, Reeve J, et al. Appraising the situation: a framework for understanding compassionate care. Journal of Compassionate Health Care. 2017 2017/01/11;4(1):1. doi: https://doi.org/10.1186/s40639-016-0030-y
- **20.** Howard R, Kirkley C, Baylis N. Personal resilience in psychiatrists: systematic review. BJPsych Bull. 2019 Mar 11:209-15. doi: https://doi.org/10.1192/bjb.2019.12. PMID: 30855001
- **21.** Zhang YY, Zhang C, Han XR, et al. Determinants of compassion satisfaction, compassion fatigue and burn out in nursing: A correlative meta-analysis. Medicine (Baltimore). 2018 Jun;97(26):e11086. doi: https://doi.org/10.1097/md.00000000011086. PMID: 29952947
- **22.** Salmond E, Salmond S, Ames M, et al. Experiences of compassion fatigue in direct care nurses: a qualitative systematic review. JBI Database System Rev Implement Rep. 2019 May;17(5):682-753. doi: https://doi.org/10.11124/jbisrir-2017-003818. PMID: 31091199
- **23.** Moffatt-Bruce SDN, M. C.: Steinberg, B.: Holliday, S.: Klatt, M. Interventions to Reduce Burnout and Improve Resilience: Impact on a Health System's Outcomes. Clin Obstet Gynecol. 2019 Sep;62(3):432-43. doi: https://doi.org/10.1097/grf.0000000000000458. PMID: 31107254
- **24.** Gilligan MC, Osterberg LG, Rider EA, et al. Views of institutional leaders on maintaining humanism in today's practice. Patient Educ Couns. 2019 Oct;102(10):1911-6. doi: https://doi.org/10.1016/j.pec.2019.04.025. PMID: 31097330
- **25.** Gleichgerrcht E, Decety J. Empathy in clinical practice: how individual dispositions, gender, and experience moderate empathic concern, burnout, and emotional distress in physicians. PLoS One. 2013;8(4):e61526. doi: https://doi.org/10.1371/journal.pone.0061526. PMID: 23620760
- **26.** Tierney S, Seers K, Reeve J, et al. Measuring compassionate care: views of healthcare staff. Nurs Manag (Harrow). 2016 Dec 1;23(8):22-6. doi: https://doi.org/10.7748/nm.2016.e1536. PMID: 27905233

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

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# **Appendix A: Methods**

We assessed nomination for priority for a systematic review or other AHRQ Effective Health Care report with a hierarchical process using established selection criteria. Assessment of each criteria determined the need to evaluate the next. See Appendix B for a detailed description of the criteria.

## **Appropriateness and Importance**

We assessed the nomination for appropriateness and importance.

## Desirability of New Review/Absence of Duplication

We searched for high-quality, completed or in-process evidence reviews published in the last three years on March 10, 2020 and repeated our search April 8, 2020 based on updated nomination questions from these sources:

- AHRQ: Evidence reports and technology assessments
  - AHRQ Evidence Reports\_https://www.ahrq.gov/research/findings/evidence-based-reports/index.html
  - o EHC Program https://effectivehealthcare.ahrq.gov/
  - US Preventive Services Task Force https://www.uspreventiveservicestaskforce.org/
  - o AHRQ Technology Assessment Program https://www.ahrq.gov/research/findings/ta/index.html
- US Department of Veterans Affairs Products publications
  - o Evidence Synthesis Program https://www.hsrd.research.va.gov/publications/esp/
  - o VA/Department of Defense Evidence-Based Clinical Practice Guideline Program https://www.healthquality.va.gov/
- Cochrane Systematic Reviews https://www.cochranelibrary.com/
- PROSPERO Database (international prospective register of systematic reviews and protocols) http://www.crd.york.ac.uk/prospero/
- PubMed https://www.ncbi.nlm.nih.gov/pubmed/
- Epistemonikos https://www.epistemonikos.org/
- Health System Evidence https://www.healthsystemsevidence.org/
- PDQ Evidence https://www.pdq-evidence.org/

## Impact of a New Evidence Review

The impact of a new evidence review was qualitatively assessed by analyzing the current standard of care, the existence of potential knowledge gaps, and practice variation. We considered whether it was possible for this review to influence the current state of practice through various dissemination pathways (practice recommendation, clinical guidelines, etc.).

#### **Feasibility of New Evidence Review**

We conducted a comprehensive literature search in PubMed for the past five years (March 2015 through March 2020) for each of the nomination questions. We reviewed all identified titles and abstracts for inclusion and classified any identified studies by question and study design to estimate the size and scope of a potential evidence review.

Feasibility Search Compassionate Care – Question 1		
PubMed Searched on April 8th, 2020		
KQ1 Educational Interventions for Healthcare Providers	((("Education, Professional"[Mesh]) OR "education" [Subheading])) OR ((education[Title/Abstract] OR training[Title/Abstract]))	
AND		
Compassion Centered Care	((compassion[Title/Abstract] OR compassionate[Title/Abstract])) AND care[Title/Abstract]	
Published in the last 5 years English	Filters activated: published in the last 5 years, English.	
604		
SR N=16 https://www.ncbi.nlm.nih.gov/sites/mync bi/r.relevo.1/collections/59498102/publi c/	systematic[sb]	
RCT N=98 https://www.ncbi.nlm.nih.gov/sites/mync bi/r.relevo.1/collections/59498115/publi c/	((((((((((((((((((((((((((((((((((((((	
Observational N=1 https://www.ncbi.nlm.nih.gov/pubmed/2 8683799	"Observational Study" [Publication Type]	
Other (none of the above) N=489 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498129/public/		

Feasibility Search Compassionate Care – Question 2		
PubMed Searched on April 8th, 2020		
KQ2 Direct Interventions for Compassion Fatigue, etc. in Healthcare Providers	(("Attitude of Health Personnel"[Mesh]) OR "Occupational Stress"[Mesh]))) OR ((stress[Title/Abstract] OR burnout[Title/Abstract] OR fatigue[Title/Abstract]))	
AND		
Compassion Centered Care	((compassion[Title/Abstract] OR compassionate[Title/Abstract])) AND care[Title/Abstract]	
Published in the last 5 years English	Filters activated: published in the last 5 years, English.	
1196		

SR N=26 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498180/public/	systematic[sb]
RCT N=168 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498187/public/	((((((((((((((((((((((((((((((((((((((
Observational N=5 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498195/public/	"Observational Study" [Publication Type]
Other N=997 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498201/public/	

Feasibility Search Compassionate Care – Question 3		
PubMed Searched on April 8th, 2020		
KQ3 Educational Interventions for Caregiving Skills	("Health Education"[Mesh]) OR "caregiving skills"[Title/Abstract]	
AND		
Compassion Centered Care	((compassion[Title/Abstract] OR compassionate[Title/Abstract])) AND care[Title/Abstract]	
Published in the last 5 years English	Filters activated: published in the last 5 years, English.	
N=25		
SR N=0	systematic[sb]	
RCT N=9 https://www.ncbi.nlm.nih.gov/sites/myncb i/r.relevo.1/collections/59498231/public/	(((((((((groups[tiab])) OR (trial[tiab])) OR (randomly[tiab])) OR (drug therapy[sh])) OR (placebo[tiab])) OR (randomized[tiab])) OR (controlled clinical trial[pt])) OR (randomized controlled trial[pt])	
Observational N=0	"Observational Study" [Publication Type]	
Other N=16 https://www.ncbi.nlm.nih.gov/sites/myncb i/r.relevo.1/collections/59498240/public/		

Feasibility Search Compassionate Care – Question 4		
PubMed Searched on April 8th, 2020		

KQ4 Direct Interventions for Caregivers	(("Caregivers"[Mesh]) OR "Family"[Mesh]) OR "Spouses"[Mesh]	
AND		
Compassion Centered Care	((compassion[Title/Abstract] OR compassionate[Title/Abstract])) AND care[Title/Abstract]	
Published in the last 5 years English	Filters activated: published in the last 5 years, English.	
N=141		
SR N=9 https://www.ncbi.nlm.nih.gov/sites/mync bi/r.relevo.1/collections/59498248/publi c/	systematic[sb]	
RCT N=25 https://www.ncbi.nlm.nih.gov/sites/mync bi/r.relevo.1/collections/59498257/publi c/	((((((((((((((((((((((((((((((((((((((	
Observational N=1 <a href="https://www.ncbi.nlm.nih.gov/pubmed/3">https://www.ncbi.nlm.nih.gov/pubmed/3</a> <a href="https://www.ncbi.nlm.nih.gov/pubmed/3">0462717</a>	"Observational Study" [Publication Type]	
Other N=107 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498275/public/		
Feasibility Search Compassionate Care – Question 5		
PubMed Searched on April 8th, 2020		
KQ5 Interventions Aimed at Healthcare Systems	"Delivery of Health Care"[Mesh] OR "Learning Health System"[Mesh]	
AND		
Compassion Centered Care	((compassion[Title/Abstract] OR compassionate[Title/Abstract])) AND care[Title/Abstract]	
Published in the last 5 years English	Filters activated: published in the last 5 years, English.	
541		
SR N=14 https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498292/public/	systematic[sb]	
RCT N=86 https://www.ncbi.nlm.nih.gov/sites/mync bi/r.relevo.1/collections/59498300/publi c/	((((((((((((((((((((((((((((((((((((((	

Observational N=2 https://www.ncbi.nlm.nih.gov/sites/mync bi/r.relevo.1/collections/59498303/publi c/	"Observational Study" [Publication Type]
Other N=439 <a href="https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498308/public/">https://www.ncbi.nlm.nih.gov/sites/myncbi/r.relevo.1/collections/59498308/public/</a>	

**Appendix B. Selection Criteria Assessment** 

Appendix B. Selection Criteria Asse	
Selection Criteria	Assessment
1. Appropriateness	
1a. Does the nomination represent a health care	Yes
drug, intervention, device, technology, or health	
care system/setting available (or soon to be	
available) in the U.S.?	Vaa
1b. Is the nomination a request for an evidence report?	Yes
1c. Is the focus on effectiveness or comparative	Yes
effectiveness?	165
1d. Is the nomination focus supported by a logic	Yes
model or biologic plausibility? Is it consistent or	100
coherent with what is known about the topic?	
2. Importance	
2a. Represents a significant disease burden; large	Compassion centered care is a critical component
proportion of the population	of high-quality healthcare and is associated with
	improved patient care outcomes, reduced rates of
	medical errors and higher patient satisfaction <sup>18</sup> .
	Clinician focused interventions to facilitate
	compassion centered care were also
	demonstrated to improve professional satisfaction,
	reduce burnout and improve retention of
	healthcare staff <sup>26</sup> .
2b. Is of high public interest; affects health care	Yes, because compassion focused individual
decision making, outcomes, or costs for a large	centered care is particularly important in delivering
proportion of the US population or for a vulnerable	care to people with chronic health conditions and
population	has been associated with improved patient outcomes and reduced healthcare utilization and
	costs.
2c. Incorporates issues around both clinical	Yes
benefits and potential clinical harms	103
2d. Represents high costs due to common use,	Yes. Evidence suggests that compassion focused
high unit costs, or high associated costs to	healthcare results in better patient care outcomes,
consumers, to patients, to health care systems, or	reduced healthcare utilization and lower rates of
to payers	burnout for healthcare providers.
Desirability of a New Evidence	
Review/Absence of Duplication	
3. A recent high-quality systematic review or other	
evidence review is not available on this topic	1 pertaining to educational interventions to
	facilitate the development of clinicians' skills and
	behaviors to provide compassion centered care.
	Four systematic reviews <sup>4,8-10</sup> answered question 2
	related to strategies to promote healthcare
	provider well-being and satisfaction. One in-
	process AHRQ technical brief <sup>11</sup> will address question 3 of the nomination. For question 4, we
	identified three systematic reviews <sup>12-14</sup> and
	another in-process AHRQ systematic review <sup>15</sup>
	that evaluated approaches to support caregiver
	well-being, quality of life and satisfaction
	outcomes. Finally, there was only one
	experimental study <sup>16</sup> that addressed question 5
	regarding organizational level interventions to
	promote compassion centered care.
Impact of a New Evidence Review	

4a. Is the standard of care unclear (guidelines not available or guidelines inconsistent, indicating an information gap that may be addressed by a new evidence review)?	Yes. There is a paucity of literature pertaining to institutional level interventions to facilitate compassion centered patient care which demonstrates the lack of evidence to guide healthcare organization leaders' decisions regarding strategies to promote compassion centered care.
4b. Is there practice variation (guideline inconsistent with current practice, indicating a potential implementation gap and not best addressed by a new evidence review)?	Yes. Currently, there are no established guidelines or consensus practice regarding compassion centered care delivery.
5. Primary Research	
5. Effectively utilizes existing research and knowledge by considering: - Adequacy (type and volume) of research for conducting a systematic review - Newly available evidence (particularly for updates or new technologies)	We found no systematic reviews and only one primary study <sup>16</sup> related to question 5. This indicates that currently there is no sufficient literature base to develop new evidence product to address question 5 of the nomination.  We additionally searched <i>ClinicalTrials.gov</i> however did not identify any relevant ongoing or completed clinical trials

Abbreviations: AHRQ=Agency for Healthcare Research and Quality.