

Appendix A: Search Strategies

KQ1: Adapted from the strategy used in [Decision aids for people facing health treatment or screening decisions](#). Stacey D, Bennett CL, Barry MJ, Col NF, Eden KB, Holmes-Rovner M, Llewellyn-Thomas H, Lyddiatt A, Légaré F, Thomson R. Cochrane Database Syst Rev. 2011 Oct 5;(10) with the addition of cancer and some publication types.

PubMed/ MEDLINE® (date run 10/2/2013, citations retrieved: 7008):
("Neoplasms"[Mesh] OR cancer OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous) AND (((choice behavior[MeSH:noexp] OR decision making[MeSH:noexp] OR decision support techniques[MeSH] OR educational technology [MeSH:noexp] OR (decision[tw] OR decisions[tw]) OR (choic*[tw] OR preference*[tw]) OR communication package[tw]) AND (health education[MeSH] OR Health Knowledge, Attitudes, Practice [MeSH:noexp] OR informed consent[tw] OR patient[tw] OR consumer[tw])) OR ((consumer* OR parent OR parents OR woman OR women OR man OR men OR personal OR interpersonal OR patient OR patients OR consumer OR personal OR individual OR nurse OR physician* OR clinician OR doctor OR "general practitioner" OR "gp") AND (participat* OR decision OR choice* OR preference)) OR "Decision Theory"[Mesh] OR "Decision Support Systems, Clinical"[Mesh] OR "Decision Making, Computer-Assisted"[Mesh] OR "shared decision" OR ("professional-patient" OR "provider-patient") AND (relation* OR communication)) OR (("health care" OR healthcare) AND (providers OR professional)) OR "informed decision" OR "informed choice" OR "decision support" OR choice OR ((patient or consumer) AND involvement)) AND (clinical trial[pt] OR randomized controlled trial[pt] OR random*[tw] OR (double[tw] AND blind*[tw]) OR double-blind method [MeSH:noexp]) limit 2008-

EMBASE® (run 10/17/13; citations retrieved: 945):

#11 AND #17 AND ([controlled clinical trial]/lim OR [randomized controlled trial]/lim) AND [humans]/lim AND [embase]/lim AND [2009-2014]/py

#17: 'choice behavior':ti OR 'choice behavior':ab OR 'decision making':ti OR 'decision making':ab OR 'decision support techniques':ti OR 'decision support techniques':ab OR 'educational technology':ti OR 'educational technology':ab OR 'communication package':ti OR 'communication package':ab OR 'health education':ti OR 'health education':ab OR 'health knowledge':ti OR 'health knowledge':ab OR 'health attitudes':ti OR 'health attitudes':ab OR 'health practice':ti OR 'health practice':ab OR ('patient'/exp OR patient OR 'consumer'/exp OR consumer* OR 'parent'/exp OR parent OR 'parents'/exp OR parents OR 'woman'/exp OR woman OR 'women'/exp OR women OR 'man'/exp OR man OR 'men'/exp OR men OR interpersonal OR personal OR individual OR 'nurse'/exp OR nurse OR physician* OR clinician OR 'doctor'/exp OR doctor OR 'general practitioner'/exp OR 'general practitioner' OR 'gp' AND (decision:ti OR decision:ab

OR choice:ti OR choice:ab OR preference:ti OR preference:ab OR participation:ti OR participation:ab)) OR 'decision theory'/exp OR 'decision theory':ti OR 'decision theory':ab OR 'decision support systems, clinical'/exp OR 'decision making, computer-assisted'/exp OR 'shared decision':ti OR 'shared decision':ab OR 'informed decision':ti OR 'informed decision':ab OR 'informed choice':ti OR 'informed choice':ab OR 'decision support'/exp OR 'decision support':ti OR 'decision support':ab OR ('patient'/exp OR patient OR 'consumer'/exp OR consumer AND involvement)

#11: #9 AND #10

#10: clinical AND trial OR randomized AND controlled AND trial OR random* OR (double AND blind*) OR 'double blind' AND ('method' OR 'method'/exp OR method)

#9: 'neoplasms'/exp OR neoplasms OR 'cancer'/exp OR cancer OR 'cancers'/exp OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous

Cochrane Central Register of Controlled Trials (run 10/2/13; citations retrieved: 1466)
(Neoplasm* OR cancer OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous) and (((choice behavior OR decision making OR decision support techniques OR educational technology OR (decision OR decisions) OR (choic* OR preference*) OR communication package) AND (health education OR Health Knowledge, Attitudes, Practice OR informed consent OR patient OR consumer)) OR ((consumer* OR parent OR parents OR woman OR women OR man OR men OR personal OR interpersonal OR patient OR patients OR consumer OR personal OR individual OR nurse OR physician* OR clinician OR doctor OR "general practitioner" OR "gp") AND (participat* OR decision OR choice* OR preference)) OR "Decision Theory" OR "Decision Support Systems, Clinical" OR "Decision Making, Computer-Assisted" OR "shared decision" OR ("professional-patient" OR "provider-patient") AND (relation* OR communication)) OR ("health care" OR healthcare) AND (provider OR professional)) OR "informed decision" OR "informed choice" OR "decision support" OR choice OR ((patient or consumer) AND involvement)) AND (clinical trial OR randomized controlled trial OR random* OR (double AND blind*) OR double-blind method) from 2008, in Cochrane Reviews (Reviews and Protocols), Other Reviews, Trials, Methods Studies, Technology Assessments, Economic Evaluations (Word variations have been searched)

Cumulative Index to Nursing and Allied Health Literature (CINAHL®) and PsycINFO
(run 10/2/13. 10/17/13; citations retrieved: CINAHL 692; PsycINFO 286)

S11: S2 AND S4 AND S10 Limiters – Published date 20090101-

S10: ((MH "Clinical Trials") OR (MH "Randomized Controlled Trials") OR "clinical trial") OR (clinical trial OR randomized controlled trial OR random* OR (double AND blind*) OR double-blind method) or (MH "Double-Blind Studies")

S4: ((MH "Decision Support Systems, Clinical") OR (MH "Decision Support Systems, Management") OR (MH "Decision Support Techniques") OR (MH "Decision-Making Support (Iowa NIC)") OR "decision support") OR ((((choice behavior OR decision making OR decision support techniques OR educational technology OR (decision OR decisions) OR (choic* OR preference*) OR communication package) AND (health education OR Health Knowledge, Attitudes, Practice OR informed consent OR patient OR consumer)) OR ((consumer* OR parent OR parents OR woman OR women OR

man OR men OR personal OR interpersonal OR patient OR patients OR consumer OR personal OR individual OR nurse OR physician* OR clinician OR doctor OR "general practitioner" OR "gp") AND (participat* OR decision OR choice* OR preference)) OR "Decision Theory" OR "Decision Support Systems, Clinical" OR "Decision Making, Computer-Assisted" OR "shared decision" OR (("professional-patient" OR "provider-patient") AND (relation* OR communication)) OR (("health care" OR healthcare) AND (provider OR professional)) OR "informed decision" OR "informed choice" OR "decision support" OR choice OR ((patient or consumer) AND involvement)))
S2: (MH "Neoplasms+") or cancer OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous

KQ2: adapted from Interventions for improving the adoption of shared decision making by healthcare professionals. [Légaré F, Ratté S, Stacey D, Kryworuchko J, Gravel K, Graham ID, Turcotte S. Cochrane Database Syst Rev. 2010 May 12;\(5\)](#) with the addition of cancer terms from KQ1 and the EPOC strategy for limiting publication types.

PubMed/ MEDLINE® (date run 10/17/2013, citations retrieved: 2087):

Search (((((((shared decision*[tiab] or sharing decision*[tiab] or informed decision*[tiab] or informed choice*[tiab] or decision aid*[tiab] or ((share*[ti] or sharing*[ti] or informed*[ti]) and (decision*[ti] or deciding*[ti] or choice*[ti]))) OR (((decision making[mh:noexp] or decision support techniques[mh:noexp] or decision support systems, clinical[mh] or choice behaviour[mh:noexp] or decision making*[tiab] or decision support*[tiab] or choice behaviour*[tiab] or ((decision*[ti] or choice*[ti]) and (making*[ti] or support*[ti] or behaviour*[ti]))) AND (patient participation[mh] or patient participation*[tiab] or consumer participation*[tiab] or patient involvement*[tiab] or consumer involvement*[tiab] or "training intervention"[tw] or ((patient[ti] or patients[ti] or consumer*[ti]) and (involvement*[ti] or involving*[ti] or participation*[ti] or participating*[ti]))) OR (((decision making[mh:noexp] or decision support techniques[mh:noexp] or decision support systems, clinical[mh] or choice behaviour[mh:noexp] or decision making*[tiab] or decision support*[tiab] or choice behaviour*[tiab] or ((decision*[ti] or choice*[ti]) and (making*[ti] or support*[ti] or behaviour*[ti]))) AND (professional-patient relations[mh] or ((nurses[mh] or physicians[mh] or nurse*[ti] or physician*[ti] or clinician*[ti] or doctor*[ti] or general practitioner*[ti] or gps[ti] or health care professional*[ti] or healthcare professional*[ti] or health care provider*[ti] or healthcare provider*[ti] or resident*[ti]) and (patients[mh] or patient[ti] or consumer*[ti] or people*[ti]))) OR (((patient participation[mh] or patient participation*[tiab] or consumer participation*[tiab] or patient involvement*[tiab] or consumer involvement*[tiab] or "training intervention"[tw] or ((patient[ti] or patients[ti] or consumer*[ti]) and (involvement*[ti] or involving*[ti] or participation*[ti] or participating*[ti]))) AND (professional-patient relations[mh] or ((nurses[mh] or physicians[mh] or nurse*[ti] or physician*[ti] or clinician*[ti] or doctor*[ti] or general practitioner*[ti] or gps[ti] or health care professional*[ti] or healthcare professional*[ti] or health care provider*[ti] or healthcare provider*[ti] or resident*[ti]) and (patients[mh] or patient[ti] or consumer*[ti] or people*[ti])))))) AND (((((((((((((((((((((((intervention*[tw] or

(intervention*[tw] and (clinician*[tw] or collaborat*[tw] or community[tw] or complex[tw] or DESIGN*[tw] or doctor*[tw] or educational[tw] or family doctor*[tw] or family physician*[tw] or family practitioner*[tw] or financial[tw] or GP or general practice*[tw] or hospital[tw] or hospitals[tw] or impact*[tw] or improv*[tw] or individualize*[tw] or individualizing[tw] or interdisciplin*[tw] or multicomponent or multi-component or multidisciplin*[tw] or multi-disciplin*[tw] or multifacet*[tw] or multi-facet*[tw] or multimodal*[tw] or multi-modal*[tw] or personalize*[tw] or personalizing or pharmacies or pharmacist* or pharmacy or physician* or practitioner* or prescrib* or prescription*[tw] or primary care[tw] or professional*[tw] or provider*[tw] or regulatory[tw] or regulatory[tw] or tailor*[tw] or target*[tw] or team*[tw] or usual care[tw]))) OR ((pre-intervention*[tw] or preintervention*[tw] or "pre intervention*" [tw] or post-intervention*[tw] or postintervention*[tw] or "post intervention*" [tw]))) OR ((hospital or patient) and (study or studies or care or health or practitioner* or provider* or physician* or nurse* or nursing or doctor)) OR demonstration project*[tw] OR ((pre-post[tw] or "pre test*" [tw] or pretest*[tw] or posttest*[tw] or "post test*" [tw] or (pre[tw] and post[tw]))) OR ((pre-workshop[tw] or post-workshop[tw] or (before[tw] and workshop[tw]) or (after[tw] and workshop[tw]))) OR (trial[tw] or ((study[tw] and aim*[tw]) or "our study" [tw])) OR ((before[tw] and (after[tw] or during[tw]))) OR (("quasi-experiment*" or quasiexperiment* or "quasi random*" or quasirandom* or "quasi control*" or quasicontrol* or ((quasi or experimental) and (method or study or trial or design*)))) OR (("time series" and interrupt*)) OR ((time points[tw] and (over[tw] or multiple[tw] or three[tw] or four[tw] or five[tw] or six[tw] or seven[tw] or eight[tw] or nine[tw] or ten[tw] or eleven[tw] or twelve[tw] or month*[tw] or hour*[tw] or day[tw] or days[tw] or "more than" [tw]))) OR pilot[tw] OR "Pilot Projects"[Mesh]) OR ((clinical trial[pt] or controlled clinical trial[pt] or multicenter study[pt])) OR ((multicentre[tw] or multicenter[tw] or multi-centre[tw] or multi-center[tw])) OR (random*[tw] or controlled[tw]) OR ((control[tw] and (area[tw] or cohort*[tw] or compare*[tw] or condition[tw] or design[tw] or group[tw] or groups[tw] or grouping[tw] or intervention*[tw] or participant*[tw] or study[tw])) not (controlled clinical trial[pt] or randomized controlled trial[pt]))) NOT (((("comment on" or review[tw] or review [pt])) OR (("Animals"[Mesh] NOT "Humans"[Mesh])) OR ((rat[tw] or rats[tw] or cow[tw] or cows[tw] or chicken*[tw] or horse[tw] or horses[tw] or mice[tw] or mouse[tw] or bovine[tw] or animal*[tw]))) OR (clinical trial[pt:noexp] or randomized controlled trial[pt] or controlled clinical trial[pt] or evaluation studies[pt] or comparative study[pt] or intervention studies[mh] or evaluation studies[mh:noexp] or program evaluation[mh:noexp] or random allocation[mh] or random*[tiab] or double blind*[tiab] or controlled trial*[tiab] or clinical trial*[tiab] or pretest*[tiab] or pre test*[tiab] or posttest*[tiab] or post test*[tiab] or prepost*[tiab] or pre post*[tiab] or controlled before*[tiab] or "before and after" [tiab] or interrupted time*[tiab] or time serie*[tiab] or intervention*[tiab])) AND (("Neoplasms"[Mesh] OR cancer OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous))

This was NOTed with Legare's original search strategy through 2009 to reduce the number of citations that had to be re-screened.

EMBASE® (run 10/17/13; citations retrieved: 782):

#14: #8 AND #9 AND #12 AND [humans]/lim AND [embase]/lim AND [article]/lim

#13: #8 AND #9 AND #12

#12: #10 OR #11

#11: random* OR 'double blind' OR 'controlled trial'/exp OR 'controlled trial' OR 'clinical trial'/exp OR 'clinical trial' OR pretest* OR 'pre test' OR posttest* OR 'post test' OR prepost* OR pre AND post* OR controlled AND before* OR 'before and after' OR 'interrupted time' OR 'time series'/exp OR 'time series' OR intervention*

#10: 'clinical trial'/exp OR 'clinical trial' OR 'randomized controlled trial'/exp OR 'randomized controlled trial' OR 'controlled clinical trial'/exp OR 'controlled clinical trial' OR 'evaluation'/exp OR 'evaluation' OR 'evaluation studies'/exp OR 'evaluation studies' OR 'comparative study'/exp OR 'comparative study' OR intervention AND studies OR 'evaluation'/exp OR 'evaluation' OR 'evaluation studies'/exp OR 'evaluation studies' OR 'program evaluation'/exp OR 'program evaluation' OR 'random allocation'/exp OR 'random allocation'

#9: 'neoplasms' OR 'neoplasms'/exp OR neoplasms OR 'cancer' OR 'cancer'/exp OR cancer OR 'cancers' OR 'cancers'/exp

OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous

#8: #1 OR #5 OR #6 OR #7

#7: #3 AND #4

#6: #2 AND #4

#5: #2 AND #3

#4: 'patient'/exp OR patient AND participation OR 'patient'/exp

OR patient AND participation* OR 'consumer'/exp

OR consumer AND participation* OR 'patient'/exp

OR patient AND involvement* OR 'consumer'/exp

OR consumer AND involvement* OR 'training'/exp OR training AND intervention OR

('patient'/exp OR patient OR 'patients'/exp OR patients OR consumer* AND

(involvement* OR involving* AND participation* OR participating*))

#3: professional OR patient AND relations OR ('nurses'/exp

OR nurses OR 'physicians'/exp

OR physicians OR nurse* OR physician* OR clinician* OR doctor* OR general AND practitioner* OR gps OR 'health'/exp

OR health AND care AND professional* OR 'healthcare'/exp

OR healthcare AND professional* OR 'health'/exp

OR health AND care AND provider* OR 'healthcare'/exp OR healthcare AND

provider* OR resident* AND ('patients'/exp OR patients OR 'patient'/exp

OR patient OR consumer* OR people*))

#2: decision AND making OR decision AND support AND techniques OR decision AND

support AND systems, AND clinical OR choice AND ('behaviour' OR 'behaviour'/exp

OR behaviour)

OR decision AND making* OR decision AND support* OR choice AND behaviour* OR

(decision* OR choice* AND (making* OR support* OR behaviour*))

#1:

shared AND decision* OR sharing AND decision* OR informed AND decision* OR informed

AND choice* OR decision AND aid* OR (share* OR sharing* OR informed* AND

(decision* OR deciding*))

Cochrane Central Register of Controlled Trials (run 10/17/13; citations retrieved: 664)

(((((shared decision* or sharing decision* or informed decision* or informed choice* or decision aid* or ((share* or sharing* or informed*) and (decision* or deciding* or choice*)))))) OR (((decision making or decision support techniques or decision support systems, clinical or choice behaviour or decision making* or decision support* or choice behaviour* or ((decision* or choice*) and (making* or support* or behaviour*)))) AND (patient participation or patient participation* or consumer participation* or patient involvement* or consumer involvement* or "training intervention" or ((patient or patients or consumer*) and (involvement* or involving* or participation* or participating*)))) OR (((decision making or decision support techniques or decision support systems, clinical or choice behaviour or decision making* or decision support* or choice behaviour* or ((decision* or choice*) and (making* or support* or behaviour*)))) AND (professional-patient relations or ((nurses or physicians or nurse* or physician* or clinician* or doctor* or general practitioner* or gps or health care professional* or healthcare professional* or health care provider* or healthcare provider* or resident*) and (patients or patient or consumer* or people*)))) OR (((patient participation or patient participation* or consumer participation* or patient involvement* or consumer involvement* or "training intervention" or ((patient or patients or consumer*) and (involvement* or involving* or participation* or participating*)))) AND (professional-patient relations or ((nurses or physicians or nurse* or physician* or clinician* or doctor* or general practitioner* or gps or health care professional* or healthcare professional* or health care provider* or healthcare provider* or resident*) and (patients or patient or consumer* or people*)))) AND (((((((((((((((((((intervention* or (intervention* and (clinician* or collaborat* or community or complex or DESIGN* or doctor* or educational or family doctor* or family physician* or family practitioner* or financial or GP or general practice* or hospital or hospitals or impact* or improv* or individualize* or individualizing or interdisciplin* or multicomponent or multi-component or multidisciplin* or multi-disciplin* or multifacet* or multi-facet* or multimodal* or multi-modal* or personalize* or personalizing or pharmacies or pharmacist* or pharmacy or physician* or practitioner* or prescrib* or prescription* or primary care or professional* or provider* or regulatory or regulatory or tailor* or target* or team* or usual care)))) OR ((pre-intervention* or preintervention* or "pre intervention*" or post-intervention* or postintervention* or "post intervention*")) OR ((hospital or patient) and (study or studies or care or health or practitioner* or provider* or physician* or nurse* or nursing or doctor))) OR demonstration project*) OR ((pre-post or "pre test*" or pretest* or posttest* or "post test*" or (pre and post))) OR ((pre-workshop or post-workshop or (before and workshop) or (after and workshop))) OR (trial or ((study and aim*) or "our study")) OR ((before and (after or during))) OR (("quasi-experiment*" or quasiexperiment* or "quasi random*" or quasirandom* or "quasi control*" or quasicontrol* or ((quasi or experimental) and (method or study or trial or design*)))) OR (("time series" and interrupt*)) OR ((time points and (over or multiple or three or four or five or six or seven or eight or nine or ten or eleven or twelve or month* or hour* or day or days or "more than")))) OR pilot) OR "Pilot Projects") OR ((clinical trial or controlled clinical trial or multicenter study)) OR ((multicentre or multicenter or multi-centre or multi-center)) OR (random* or controlled)) OR ((control and (area or cohort* or compare* or condition or design or group or groups or grouping or intervention* or participant* or study)) not (controlled clinical trial or randomized

controlled trial)))) NOT (((("comment on" or review or review)) OR (("Animals" NOT "Humans")))) OR ((rat or rats or cow or cows or chicken* or horse or horses or mice or mouse or bovine or animal*)))) OR (clinical trial or randomized controlled trial or controlled clinical trial or evaluation studies or comparative study or intervention studies or evaluation studies or program evaluation or random allocation or random* or double blind* or controlled trial* or clinical trial* or pretest* or pre test* or posttest* or post test* or prepost* or pre post* or controlled before* or "before and after" or interrupted time* or time serie* or intervention*)) AND (("Neoplasms" OR cancer OR cancers OR neoplasm* OR malignan* OR premalignan* OR precancerous))

NOT KQ1 strategy to bring down the numbers.

Cumulative Index to Nursing and Allied Health Literature (CINAHL®) and PsycINFO (10/17/13; citations retrieved: CINAHL 692; PsycINFO 286)

S34: S27 AND S33

S33: S28 OR S29 OR S30 OR S31 OR S32

S32: clinical trial or randomized controlled trial or controlled clinical trial or evaluation studies or comparative study or intervention studies or evaluation studies or program evaluation or random allocation or random* or double blind* or controlled trial* or clinical trial* or pretest* or pre test* or posttest* or post test* or prepost* or pre post* or controlled before* or "before and after" or interrupted time* or time serie* or intervention*

S31: (MH "Program Evaluation")

S30: (MH "Evaluation Research")

S29: (MH "Experimental Studies")

S28: (MH "Randomized Controlled Trials") OR (MH "Clinical Trials")

S27: S3 AND S26

S26: (S23 OR S24 OR S25)

S25: S12 AND S22

S24: S8 AND S22

S23: S8 AND S12

S22: (S13 OR S21)

S21: S19 AND S20

S20: S14 OR S15 OR S16

S19: (S17 OR S18)

S18: patient or consumer* or people*

S17: (MH "Patients")

S16: nurse* or physician* or clinician* or doctor* or general practitioner* or gps or health care professional* or healthcare professional* or health care provider* or healthcare provider* or resident*

S15: (MH "Physicians")

S14: (MH "Nurses")

S13: (MH "Professional-Patient Relations") OR (MH "Professional-Client Relations") OR (MH "Physician-Patient Relations") OR (MH "Nurse-Patient Relations")

S12: (S9 OR S10 OR S11)

S11: ((patient or patients or consumer*) and (involvement* or involving* or participation* or participating*))

S10: or patient participation* or consumer participation* or patient involvement* or
consumer involvement* or training intervention
S9: (MH "Consumer Participation")
S8: S5 OR S6 OR S7
S7: choice behaviour or decision making* or decision support* or choice behaviour* or
((decision* or choice*) and (making* or support* or behaviour*))
S6: (MH "Decision Support Techniques+") OR (MH "Decision Support Systems,
Clinical")
S5: (MH "Decision Making")
S4: shared decision* or sharing decision* or informed decision* or informed choice* or
decision aid* or ((share* or sharing* or informed*) and (decision* or deciding* or
choice*))
S3: S1 OR S2
S2: Neoplasms OR cancer OR cancers OR neoplasm* OR malignan* OR premalignan*
OR precancerous
S1: (MH "Neoplasms+")

Appendix B: Meta-Analysis Model

Analysis model: Hierarchical random effects meta-regression model

We assumed a normal distribution at the between and within-study levels:

$$y_{ij} \sim N(d_{ij}, \sigma_{ij}^2)$$

where y_{ij} and σ_{ij}^2 are the observed study-level mean response and sampling variance in study i and arm j ; d_{ij} is the unobserved true mean response.

We used a linear form on d_{ij} to account for decision aid effects and their modification by predictors. For example for a single predictor write

$$d_{ij} = \beta_{0,i} + \beta_{1,i}x_{DA,ij} + \beta_{2,i}x_{pred,ij} + \gamma_i x_{DA,ij} x_{pred,ij}$$

where the x variables are binary indicators of whether a condition is fulfilled and $pred$ stands for predictor. x_{DA} records the presence of a DA and x_{pred} indicates whether a study accounts for the predictors of interest listed in **Tables 2, 3 and 4** in the main text.

We repeated the meta-regression individually for each predictor of interest. We also added terms for population group (high risk population, cancer population) and examined interactions between populations and predictors. To obtain SMDs, we scaled y_{ij} and σ_{ij}^2 with the pooled standard deviation in study i .

We used a Bayesian framework for the meta-analysis and assigned the following priors to model coefficients:

$$\beta_{0,i} \sim N(0, 0.01)$$

$$\beta_{1,i} \sim N(B_{1,i}, \tau_{B_{1,i}}^2)$$

$$B_{1,i} \sim N(0, 0.01)$$

$$\tau_{B_{1,i}} \sim U(0.001, 2)$$

$$\beta_{2,i} \sim N(0, 0.01)$$

$$\gamma_i \sim N(\Gamma_i, \theta_{\Gamma_i}^2)$$

$$\Gamma_i \sim N(0, 0.01)$$

$$\theta_{\Gamma_i} \sim U(0.001, 2)$$

In sensitivity analyses we increased the variance in the prior distributions (results summarized in the text but not shown in detail).

Appendix C: Description of Discrepancies with the 2014 Cochrane Systematic Review

The most recent update of the Cochrane Systematic Review is searched the literature through June 2012, and included 115 trials in all healthcare conditions. Of these, 47 are in people facing decisions related to screening, diagnosis, or treatment of no worse than early cancer.

Considering cancer and non-cancer conditions, the authors of the Cochrane Review concluded that there is high-quality evidence that decision aids compared to usual care improve people's knowledge regarding options, and reduce their decisional conflict related to feeling uninformed and unclear about their personal values; that there is moderate-quality evidence that decision aids compared to usual care stimulate people to take a more active role in decision making, and improve accurate risk perceptions when probabilities are included in decision aids, compared to not being included; and that there is low-quality evidence that decision aids improve congruence between the chosen option and the patient's values.

Regarding randomized evidence, the Cochrane systematic review and the current work have included mostly overlapping sets of studies. Of the 115 trials in the Cochrane review, 47 are in patients facing screening, diagnostic or treatment decisions in early cancer. We have included 67 trials. Overall:

- 41 trials are included in both the Cochrane review and this work,
- 6 trials are included in the Cochrane review but are excluded from our work, because the intervention was not judged to be a decision aid, using our operationalization of the inclusion criteria (e.g., we did not find a description that the intervention included even implicit elicitation of values), and
- 26 trials are included in our work but not in the Cochrane review. Of these, 10 were published after the last search of the Cochrane review (June 2012), 14 were in the excluded studies list, and 2 were not mentioned in the included/excluded lists of the Cochrane review.

We verified our decisions for the 32 trials in which our decisions for eligibility were at odds with those of the Cochrane reviewers. We concluded that the most plausible explanation for the disagreements is in the operationalization of the eligibility criteria.

Sensitivity analysis

The conclusions in our main report would remain qualitatively the same if we were to consider only the 41 trials included in the Cochrane review.

Indicatively, we list the main results for the three meta-analyses including only the subset of our studies that were included in the Cochrane report.

Knowledge about the condition or the available options

In total, 23 trials (7736 participants) would be included in the main analysis. Overall, using decision aids resulted in higher knowledge scores (standardized mean difference or SMD = 0.19, 95% credible interval [CrI]: 0.09, 0.29) compared to not using them. (An SMD of 0.20-0.30 can be considered a moderate effect.) The effect was 0.25, 95% CrI: 0.11, 0.38) among people at average risk of cancer, 0.22 (95% CrI: 0.03, 0.39) among those at high risk, and 0.05 (95% CrI: -0.19, 0.29) among patients with early cancer. However, the observed effects were not different beyond what can be explained by chance. There was no evidence for effect modification by the delivery format or content of the DA or other attributes, or by methodological characteristics of the studies. There were indications for relatively large between-study heterogeneity.

Decisional conflict

In total, 18 trials (4176 participants) would be included in the main analysis. Overall, using decision aids resulted in lower decisional conflict scores (weighted mean difference = -0.10, 95% credible interval [CrI]: -0.19, -0.01) compared to not using them. The effect was -0.16, 95% CrI: -0.32, 0.01) among people at average risk of cancer, -0.12 (95% CrI: -0.31, 0.04) among those at high risk, and -0.03 (95% CrI: -0.18, 0.13) among patients with early cancer. The observed effects were not statistically significantly different (their differences could be explained by chance alone). The observed effects were not different beyond what can be explained by chance. There was no evidence for effect modification by the delivery format or content of the DA or other attributes, or by methodological characteristics of the studies. There were indications for relatively large between-study heterogeneity.

Anxiety

In total, 8 trials (1959 participants) would be included in the main analysis. Overall, using decision aids resulted in higher anxiety, as measured by the state anxiety scale of the State-Trait Anxiety Inventory (weighted mean difference = 0.16, 95% credible interval [CrI]: -1.43, 1.29) compared to not using them. There were indications for relatively large between-study heterogeneity. Because there were fewer than 10 studies, we did not run meta-regression analyses by the delivery format or content of the DA or other attributes, or by methodological characteristics of the studies. There were indications for relatively large between-study heterogeneity (see Methods section).

Appendix D: Table of Study Characteristics

First Author, Year (PMID)	Population/body system and decision type Decision Aid ID*	Country of trial	N enrolled	Age (mean)	Gender/ Ethnicity	Education: > 50% completed high school (yes/no)	Arm	Values clearly explicit (yes/no)	Probabilities (generic/personalized)	Interactive materials
Screening										
Breast										
Mathieu (2007) 17954796	3	Australia	734	70.35	NR	unclear	DA booklet/Control usual care	yes/no	generic/none	no/NA
	3	Australia	412	41.8	NR	yes	DA website/control	yes/no	generic/none	yes/NA
Colorectal										
Trevena (2008) 18573775	11	Australia	314	59 [median between 55-64 which contains 66% of the population]	NR	no	DA booklet/Control guidelines	yes/no	generic/none	no/no
Smith (2010) 20978060	11	Australia	572	NR	men 50%, women 50%	yes	DA booklet, video, question prompt list/DA booklet, video/Control booklet	yes/yes/no	personalized/personalized/generic	no/no/no
Schroy (2010) 20484090	9	USA	666	< 65 [86% of the population was under 65]	men 40%; white 34%, African American 63%, Asian 1%, other 2%	yes	DA computer individualized/DA computer/Control education on another topic	yes/yes/no	personalized/generic/none	yes/yes/NA
Pignone (2000) 11085838	8	USA	651	62.7	white 90%	yes	DA video/Control video on another topic	no/no	none/none	no/no
Griffith (2008) 18218084	8	USA	120	54	white 71%, African American 24%	yes	DA 5 options video/DA 2 options video	no/no	generic/generic	no/no
Miller (2011) 21565651	8	USA	264	57.8	African American 73%	yes	DA Computer/Control education on another topic	no/no	generic/none	yes/NA
Dolan (2002) 11958495		USA	97	66.1	white 98%	yes	DA booklet and consultation/Control interview	yes/no	generic/none	consultation/consultation
Ruffin (2007) 17689600		USA	174	57	white 53%, African American 47%	yes	DA computer/Control computer	yes/no	generic/none	yes/no
Prostate										
Volk (2008) 18760888	20	USA	525	55.6	white 47%, African American 36%, 8% Hispanic; other 9%	yes	DA video/DA audio	yes/no	generic/generic	yes/no
Taylor (2013) 23896732	10	USA	1879	56.9	white 56%; African American 40%; other 4%	yes	DA computer/DA booklet/Control usual care	yes/yes/no	generic/generic/none	yes/no/NA
Williams (2013) 23357414	10	USA	543	54.9	white 30%, Black 61%, Other 9%	yes	DA booklet/Control usual care booklet	yes/no	generic/generic	no/no
Stephens (2008) 19025266	7	USA	400	54.9	African American 50%	yes	DA booklet/Control usual care	no/no	generic/none	no/NA
Myers (2005) 16173330	6	USA	242	52	African American 100%	yes	DA booklet and consultation/Control booklet	yes/no	none/none	consultation/no

Myers (2011) 20619576	6	USA	313	56.5	white 56%	yes	DA booklet and consultation/ Control usual care	yes/no	generic/none	consultation/ no
Frosch (2008) 18299490	5	USA	611	58.7	white 86%, African American 3%, Hispanic 5%, Asian 4%, other 2%	yes	DA chronic disease trajectory/DA traditional/DA combination/ Control	yes/yes/no/no	generic/generi c/generic/non e	yes/no/yes/n o
Frosch (2003) 14521639	4, 5	USA	226	62	white 91%, Asian/Pacific Islander 3.5%, Hispanic, 3.5%, other 2%	yes	DA computer/DA video	no/no	generic/generi c	no/no
Volk (1999) 10418541	4	USA	160	59	white 61%, African American 19%, Mexican American 16%, other 4%	yes	DA videotape and utility assessment/DA videotape/ Control no intervention	no/no/no	generic/generi c/none	no/no/NA
Partin (2004) 15242468	2, 4	USA	1,152	68.4	white 95%	yes	DA video/DA booklet/Control	no/no/no	generic/generi c/none	no/no/NA
Gattellari (2003) 12790313	1	Australia	248	54	NR	yes	DA booklet/Control pamphlet	yes/no	generic/none	no/no
Gattellari (2005) 15911190	1	Australia	421	58.1	NR	yes	DA video/DA booklet/Control leaflet	yes/no/no	generic/generi c/none	no/no/no
Watson (2006) 16875796		UK	1960	60 [median between 50-70 which contains 61% of the population]	white 96%	yes	DA booklet/Control usual care	no/no	generic/none	no/NA
Ilic (2008) 18373146		Australia	161	58.5	NR	yes	DA booklet/DA video/DA computer	no/no/no	none/none/no ne	no/no/yes
Holt (2009) 19718941		USA	49	56	African American 100%	yes	DA booklet and consultation spiritual/DA booklet and consultation secular	no/no	generic/generi c	consultation/ consultation
Allen (2010) 20716619		USA	829	>45 [all]	white 89%	yes	DA computer/Control usual care	yes/no	generic/none	yes/NA
Evans (2010) 20693148		UK	514	55 [median between 50-59 which contains 64% of the population]	white 98%	yes	DA computer/DA booklet/Control 1 and 2 usual care	yes/no/no	generic/generi c/none/none	yes/no/no/no
Chan (2011) 21237611		USA	321	60.9	100% Hispanic	no	DA video, booklet, and in- person education/Control education on another topic	yes/no	generic/none	consultation/ NA
Lepore (2012) 22825933		USA	490	62 [median between 55-70 which contains 49% of the population]	African American 100%	yes	DA booklet and consultation/ Control education on another topic	yes/no	personalized/ none	consultation/ NA
Sheridan (2012) 23148458		USA	130	57.5	white 55%	yes	DA video and coaching/Control education on another topic	yes/no	generic/none	consultation/ NA
Salkeld (2013) no PMID		Australia	1447	NR	NR	NR	DA computer/Control education	no/no	generic/none	yes/no

Wilkes (2013) 23835818		USA	581	63	white 82%, African American 8%, Hispanic 8%, Asian 5%, other 7%	yes	DA computer for patients/DA computer for physicians/Control booklet	no/no/no	generic/personalized/generic	yes/yes/no
High risk, but no cancer										
Breast - preventive treatment										
Fagerlin (2011) 21442198	21	USA	1197	61.7	white 97.5%, Black 0.4%, Asian/Pacific Islander 1.7%, Hispanic 0.4%	yes	DA computer/Control waiting list/Control no intervention	yes/no/no	personalized/none/none	yes/NA/NA
Schwartz (2009) 19210013	17	USA	214	44	white 93%; Jewish 49%	yes	DA computer and booklet/Control usual care booklet	yes/no	personalized/none	yes/NA
Ozanne (2007) 17319855		USA	30	44.4	NR	yes	DA computer and consultation/Control consultation	no/no	personalized/personalized	yes and consultation/consultation/consultation/NA
van Roosmalen (2004) 15310772		Netherlands	88	39.5	NR	unclear	DA brochure and video plus counseling/Control usual care	yes/no	generic/generic	consultation/NA
Breast - testing for genetic mutation										
Lerman (1997) 8998184		USA	578	39 [median between 35 and 49 which contains 58% of the population]	white 71%, African American 27%, other 2%	yes	DA education and counseling/DA education/Control wait list	no/no/no	personalized/personalized/none	consultation/consultation/NA
Green (2001) 11562929		USA	72	44	white 98%, African American 2%	yes	DA computer/DA counselor/Control baseline knowledge	no/no/no	generic/personalized/none	yes/consultation/NA
Green (2004) 15280342		USA	211	44.5	white 93%	yes	DA computer/DA counselor	no/no	generic/personalized	yes/consultation
Miller (2005) 16377604		USA	492	46.32	white 89%, African American 5%. Native American 2%, Asian 1%, Hispanic 1%, other 2%	yes	DA telephone education and packet/Control usual care	yes/no	personalized/generic	consultation/consultation
Albada (2012) 22394647		Netherlands	197	41.4	NR	yes	DA computer/Control usual care	no/no	generic/none	yes/NA
Breast/Ovarian - testing for genetic mutation										
Wakefield (2008) 17333332	13	Australia	145	47.7	NR	yes	DA booklet/Control usual care booklet	yes/no	personalized/none	no/no
Wakefield (2008) 18613319	13	Australia	148	48.7	NR	yes	DA booklet/Control usual care booklet	yes/no	personalized/none	no/no
Colorectal - testing for genetic mutation										

Wakefield (2008) 18618513	13	Australia	153	50.4	NR	yes	DA booklet/Control usual care booklet	yes/no	personalized/ none	no/no
	Ovarian - preventive treatment									
Tiller (2006) 16855125		Australia	131	48.6	NR	yes	DA booklet/Control booklet	yes/no	generic/generi c	no/no
	Early cancer									
	Breast									
Goel (2001) 11206942		Canada	136	57.5	NR	yes	DA audiotape, workbook/Control pamphlet	yes/no	generic/none	no/no
Whelan (2004) 12697850	12	USA and Canada	176	51.4	NR	no	DA decision board/Control usual care	no/no	generic/none	consultation/ NA
Whelan (2003) 15280341	12	Canada	201	58.1	NR	yes	DA decision board/Control usual care	no/no	generic/none	consultation/ NA
Jibaja-Weiss (2011) 20609546	20	USA	138	51	white 16%, African American 38%, Hispanic 45%, Asian American 1%	no	DA computer/Control usual care	yes/no	generic/none	yes/NA
Street (1995) 8635032		USA	60	59.1	white 92%	yes	DA computer/Control booklet	no/no	none/none	yes/no
Vodermaier (2009) 19209172		Germany	152	55.2	NR	yes	DA decision board/Control usual care	no/no	generic/none	consultation/ NA
Peele (2005) 15951457	22	USA	432	NR	white 80%	yes	DA computer/Control pamphlet	no/no	personalized/ none	consultation/ consultation
Lam (2013) 23835709		China	276	55.7	Chinese 100%	yes	DA booklet/Control usual care	yes/no	generic/none	no/NA
Davison (2002) 12464832		Canada	736	58.3	NR	yes	DA computer/Control no intervention	no/no	personalized/ none	yes/NA
Maslin (1998) no PMID		UK	100	52.1	NR	NR	DA video/Control usual care	no/no	personalized/ none	yes/NA
	Cervical									
McCaffery (2010) 20179125	15	Australia	330	>30 [65% of the population was older than 30]	NR	yes	DA informed consent/Control HPV triage/Control repeat testing	yes/no/no	generic/none/ none	no/NA/NA
	Colorectal									
Manne (2010) 20142594		USA	213	46.3	white 90%; men 55%	yes	DA computer/Control education	no/no	generic/generi c	yes/consultat ion
	Prostate									
Berry (2013) 22153756	19	USA	508	63 [median age]	white 85%	yes	DA computer/Control usual care	yes/no	generic/none	yes/no
Davison (1997) 9190093		Canada	60	68	NR	no	DA booklet and consultation/ Control booklet	no/no	generic/none	consultation/ no
Auvinen (2004) 14678367		Other (Finland)	210	72	NR	NR	DA booklet and consultation/ Control usual care	yes/no	generic/none	consultation/ consultation
Davison (2007) 17876177		Canada	324	62.4	NR	no	DA video and booklet individualized/DA video and	yes/no	personalized/ none	yes/no

Mishel (2009) 19819096	USA	259	62.5	white 71.5%, African American 28.5%	yes	booklet generic DA booklet, video, and consultation/DA booklet, video, and consultation for both patient and primary support person/ Control booklet	yes/yes/no	none/none/none	consultation/consultation/NA
Diefenbach (2012) 22246148	USA	91	61.93	white 59%, African American 27%, Hispanic, Asian, other 14%	yes	DA tailored Web site/DA generic Web site/Control usual care	no/no/no	generic/generic/generic	yes/yes/NA
Feldman-Stewart (2012) 22287534	Canada	156	65 [median between 60-99 which contains 47% of the population]	NR	yes	DA computer/DA computer with values exercise	yes/no	generic/generic	yes/not clear
Hacking (2013) 22570252	UK	123	66.2	white 100%	yes	DA coaching/Control usual care	yes/no	none/none	consultation/NA
van Tol-Geerdink (2013) 22882966	Netherlands	240	64	NR	unclear	DA consultation/Control usual care	no/no	generic/none	consultation/NA
Sawka (2012) 22753906	Canada	74	45.8	men 16%	yes	DA computer/Control usual care	no/no	generic/none	yes/NA

Table 1B – Key Question 2

First Author (date) PMID	Population/body system and decision type Country of trial	N physicians enrolled	Provider Age (mean)	Provider gender distribution	Patient age	Arm	Timing of intervention
Screening							
Prostate							
Gattellari (2005) 15824055	Australia	277	50 [median between 45 and 54 which contains 40.8% of the population]	men 75%	NR	4 month combination of peer and informational packets/ Control wait list	Outside consultation
Feng (2013) 23835817	USA	120	43	NR	NR	Computer education/ Computer education plus active patients/ Control booklet	Web-based, outside consultation/Web-based plus patient exposure/NA
Colorectal							
Lin (2013) 23381524	USA	502	NR	NR	NR	Distribution of 16 DSTs of which colorectal cancer screening D	the aids were primarily distributed at the point of care

Appendix E: List of Included Studies

Key Question	References
1	1-81
2	82-84

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Appendix F: List of Excluded Studies

Reason	Citations
KQ1 - Not a DST	1-118
KQ1 - Not an RCT	119-169
KQ2 - No comparative aspect	170-176
KQ2 - Not about promoting DST use	177-245
Duplicate information	246-249
Full text not in English	250-260
Hypothetical choice/scenario	261-265
No outcomes of interest	266-269
< 10 in arm	270
Wrong publication type (protocol or no primary data) Note: 2 abstracts in this section share a single citation	271-336
Wrong population	337-354

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10.097/IGC.0b013e318235bd21. PMID:
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Appendix G: Quality Grade Tables

Key Question 1 First Author, Year (PMID)	Population/body system and decision type Decision Aid ID*	Risk of Bias due to Inadequate Randomized Sequence Generation	Risk of Bias due to Inadequate Allocation Concealment	Risk of Bias due to Inadequate Outcome Assessor Blinding	Risk of Bias due to Attrition Rate Above 20%
Screening					
Breast					
Mathieu (2007) 17954796	3	Yes	Yes	No	No
Colorectal					
Trevena (2008) 18573775	11	Unclear	Yes	Yes	Unclear
Smith (2010) 20978060	11	Yes	Yes	No	Yes
Schroy (2010) 20484090	9	Unclear	Unclear	No	Unclear
Pignone (2000) 11085838	8	Yes	Yes	Yes	No
Griffith (2008) 18218084	8	Yes	Yes	Unclear	No
Miller (2011) 21565651	8	Yes	Unclear	Unclear	No
Dolan (2002) 11958495		Yes	No	No	No
Ruffin (2007) 17689600		Yes	Yes	Yes	No
Prostate					
Volk (2008) 18760888	20	Yes	Unclear	No	Yes
Taylor (2013) 23896732	10	Yes	Unclear	Unclear	Unclear
Williams (2013) 23357414	10	Unclear	Unclear	No	No
Stephens (2008) 19025266	7	Unclear	Yes	Yes	No
Myers (2005) 16173330	6	Unclear	Unclear	No	No
Myers (2011) 20619576	6	Unclear	Yes	No	Unclear
Frosch (2008) 18299490	5	Yes	Yes	No	No
Frosch (2003) 14521639	4, 5	Yes	Yes	No	Unclear
Volk (1999) 10418541	4	No	No	Yes	No
Partin (2004) 15242468	2, 4	Yes	Yes	Yes	No
Gattellari (2003) 12790313	1	Yes	Unclear	No	Unclear
Gattellari (2005) 15911190	1	Yes	Yes	No	No
Watson (2006) 16875796		Yes	Yes	Unclear	Unclear
Ilic (2008) 18373146		Yes	Yes	No	No
Holt (2009) 19718941		Unclear	Unclear	No	Unclear

Allen (2010) 20716619		Yes	Unclear	Unclear	Unclear
Evans (2010) 20693148		Yes	Yes	No	Yes
Chan (2011) 21237611		Yes	Unclear	Unclear	No
Lepore (2012) 22825933		Yes	Yes	Unclear	No
Sheridan (2012) 23148458		Yes	Yes	No	Unclear
Salkeld (2013) no PMID		Unclear	Unclear	No	Unclear
Wilkes (2013) 23835818		Yes	Yes	No	No

High risk, but no cancer

Breast - preventive treatment					
Fagerlin (2011) 21442198	21	Yes	Yes	Unclear	Unclear
Schwartz (2009) 19210013	17	No	No	Unclear	Unclear
Ozanne (2007) 17319855		Unclear	Unclear	Unclear	No
van Roosmalen (2004) 15310772		Yes	Unclear	No	Unclear

Breast - testing for genetic mutation					
Lerman (1997) 8998184		Unclear	Unclear	No	Unclear
Green (2001) 11562929		Yes	Yes	No	No
Green (2004) 15280342		Unclear	Unclear	No	No
Miller (2005) 16377604		Unclear	Unclear	No	No
Albada (2012) 22394647		Yes	Yes	Unclear	Unclear

Breast/Ovarian - testing for genetic mutation					
Wakefield (2008) 17333332	13	Unclear	Yes	Yes	No
Wakefield (2008) 18613319	13	Unclear	Unclear	No	Yes

Colorectal - testing for genetic mutation					
Wakefield (2008) 18618513	13	Unclear	Unclear	No	Yes

Ovarian - preventive treatment					
Tiller (2006) 16855125		Unclear	Unclear	Yes	No

Early cancer

Breast					
Goel (2001) 11206942		Yes	Yes	No	No
Whelan (2004) 12697850	12	Unclear	Unclear	Yes	Yes
Whelan (2003)	12	Yes	Yes	No	No

15280341					
Jibaja-Weiss (2011) 20609546	20	Yes	Unclear	No	No
Street (1995) 8635032		Unclear	Unclear	Unclear	No
Vodermaier (2009) 19209172		Yes	Unclear	No	Unclear
Peele (2005) 15951457	22	Unclear	Unclear	Unclear	Unclear
Lam (2013) 23835709		Yes	Yes	Yes	Unclear
Davison (2002) 12464832		Yes	Yes	Yes	Unclear
Maslin (1998) no PMID		Unclear	Unclear	Unclear	No

Cervical

McCaffery (2010) 20179125	15	Yes	Unclear	Unclear	Unclear
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Colorectal

Manne (2010) 20142594		Unclear	Unclear	Unclear	Unclear
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Prostate

Berry (2013) 22153756	19	Yes	Unclear	Unclear	Unclear
Davison (1997) 9190093		Unclear	Unclear	Unclear	No
Auvinen (2004) 14678367		Yes	Yes	No	No
Davison (2007) 17876177		Unclear	Yes	Unclear	Unclear
Mishel (2009) 19819096		Unclear	Unclear	Unclear	Unclear
Diefenbach (2012) 22246148		Unclear	Unclear	No	Unclear
Feldman-Stewart (2012) 22287534		Yes	Yes	Unclear	Unclear
Hacking (2013) 22570252		Yes	Yes	No	Unclear
van Tol-Geerdink (2013) 22882966		Unclear	Unclear	Unclear	No
Sawka (2012) 22753906		Yes	Yes	Unclear	No

Key Question 2

First Author, Year (PMID)	Population/body system and decision type Decision Aid ID*	Risk of Bias due to Inadequate Randomized Sequence Generation	Risk of Bias due to Inadequate Allocation Concealment	Risk of Bias due to Inadequate Outcome Assessor Blinding	Risk of Bias due to Attrition Rate Above 20%
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Screening

Colorectal

Lin (2013) 23381524		NA	NA	NA	NA
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Prostate

Gattellari (2005) 15824055		NA	NA	NA	NA
Feng (2013) 23835817		NA	NA	NA	NA

*NA = Studies from KQ2 were not randomized controlled trial and the Quality Grade did not apply.

Appendix H: Detailed Strength of Evidence Assessment Table

Key Question or Population	Outcome	Comparison	Risk of Bias for the evidence-base	Consistency	Precision	Directness	Overall Rating	Key Findings and Comments
<i>Key question 1</i>								
All facing decisions in no worse than early cancer	Knowledge about the condition or the options	Using vs. not using DAs	Low to moderate	Mostly consistent	Mostly precise	Direct	High	- 37 trials (12385) patients in analysis - SMD: 0.23 (0.06, 0.36) - Outcome is a surrogate of decisional quality (as concept)
		Between DAs, according to delivery formats*	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
		Between DAs, according to their content**	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide. - Difference in SMD for DAs presenting generic probabilities vs not: 0.21 (0.02, 0.44), may be confounded by knowledge questionnaire content
		Between DAs, according to other attributes***	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
Congruence of choice and values, informed choices, accurate risk perception		Using vs. not using DAs	Low to moderate (few studies report results)	Mostly consistent	Imprecise	Direct	Low	- 11 trials (4455 patients) for congruence/informed choices; 8 trials (2316) patients for risk perception For all listed outcomes: - No quantitative synthesis - Using DAs better than not using in most studies - Outcomes are surrogates of decisional quality (as concept) - Magnitude of clinically important effects unclear
		Between DAs, by formats, contents or other attributes	Low	Undefined	Imprecise	Undefined	Not rated	- [see above for number of trials and patients] - Not feasible to assess because of limited number of trials
Decisional conflict scale		Using vs. not using DAs	Low to moderate	Mostly consistent	Mostly precise	Direct	Moderate	- 27 trials (7820 patients) in analysis - WMD: -0.22 (-0.38, 0.05) - Clinically important difference unclear; indications that the observed WMD is small
		Between DAs, according to delivery formats*	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
		Between DAs, according to their content**	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide.

Key Question or Population	Outcome	Comparison	Risk of Bias for the evidence-base	Consistency	Precision	Directness	Overall Rating	Key Findings and Comments
<i>Key question 1</i>								
		Between DAs, according to other attributes***	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
	Proportion undecided	Using vs. not using DAs	Low to moderate	Consistent	Imprecise	Direct	Low	- 4 trials (2483 patients) - All trials show statistically significant results that the proportion undecided is lower in DAs
		Between DAs, by formats, contents or other attributes	Low	Undefined (sparse data)	Imprecise	Undefined	Not rated	- [see above for number of trials and patients] - Not feasible to assess because of limited number of trials per outcome definition
	Communication with provider, participation in decisionmaking, satisfaction with decisionmaking, actual/ intended choices	Using vs. not using DAs	Low to moderate (relatively few studies report results)	Somewhat consistent or undefined, depending on outcome	Imprecise	Direct	Insufficient	- 1 trial (256 patients) for communication; 8 (2173) for participation in decisionmaking; 4 (1131) for patient satisfaction; 48 trials for actual/intended choices For all listed outcomes: - No quantitative synthesis - Outcomes are surrogates of decisional quality (as concept) - Magnitude of clinically important effects unclear
		Between DAs, by formats, contents or other attributes	Low	Undefined (sparse data)	Imprecise	Undefined	Not rated	- [see above for number of trials and patients] - Not feasible to assess because of limited number of trials per outcome definition
	Anxiety	Using vs. not using DAs	Low to moderate	Somewhat inconsistent (large between-study SD)	Imprecise	Direct	Low to moderate	- 14 trials (2898 patients) in analysis - STAI WMD: -0.11 (-0.98, 0.79) - Clinically important difference unclear; indications that the observed WMD is small
		Between DAs, according to delivery formats*	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
		Between DAs, according to their content**	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide.
		Between DAs, according to other attributes***	Low to moderate	Mostly consistent	Imprecise	Indirect (based on hierarchical regression)	Low	- [see above for number of trials and patients] - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
	Depression, emotional distress, decision regret, quality of life	Using vs. not using DAs	Low to moderate (relatively few studies report results)	Somewhat consistent or undefined, depending on outcome	Imprecise	Direct	Low	- 7 trials (937 patients) for decision regret, 4 (777) for quality of life, 17 (not all analyzable) for depression For all listed outcomes: - No quantitative synthesis - Outcomes are surrogates of decisional quality

Key Question or Population	Outcome	Comparison	Risk of Bias for the evidence-base	Consistency	Precision	Directness	Overall Rating	Key Findings and Comments
<i>Key question 1</i>								
		Between DAs, by formats, contents or other attributes	Low	Undefined	Imprecise	Undefined	Not rated	(as concept) - Magnitude of clinically important effects unclear - No indication for difference in - [see above for number of trials and patients] - Not feasible to assess because of limited number of trials on the same outcome definition
	Resource use, length of consultation, costs, litigation rates	Using vs. not using DAs	Unclear	Undefined	Imprecise	Undefined	Not rated	- 1 trial (314 patients) for resource use, 3 (417) for length of consultation, no trials on litigation rates - Not feasible to assess because of limited number of trials or no evidence
		Between DAs, by formats, contents or other attributes	Unclear	Undefined	Imprecise	Undefined	Not rated	- [as above]
Separately for populations at average risk of cancer, high risk of cancer or with early cancer	Knowledge, decisional conflict, anxiety	Using vs. not using DAs, (evidence for differential effects by population group)	Moderate	Generally in agreement with respective outcome	Imprecise	Indirect (based on hierarchical regression)	Low	- 37 trials (12385) patients in analysis for knowledge, 27 (7820) for decisional conflict, 14 (2898) for anxiety - No statistical evidence for a difference between DAs with and without attributes; however 95% CrI are wide
	All other outcomes	Using vs. not using DAs, (evidence for differential effects by population group)	Unclear	Undefined	Imprecise	Undefined	Not rated	- Not feasible to assess because of limited number of trials or no evidence
<i>Key question 2</i>								
<i>All providers or prospective participants</i>	All aforementioned outcomes	Using vs. not using interventions to promote use of DAs	Low	Undefined	Imprecise	Direct	Not rated	- 3 cluster randomized trials with 5, 120, 220 clusters. - No empirical data for most aforementioned outcomes; or from at most one study - This question was used to contextualize the first key question: The overall goal is to promote shared decisionmaking; promotion through DA use is not the only approach.

* Audiovisual material, software or website, printed material, in-person education, option grid, decision board.

** Explicit values clarification, probability of outcomes (generic), probability of outcomes (personalized), others' opinions, coaching in decisionmaking (human mediated), guidance in decision making (non-human-mediated), decision analytic model

*** Developed based on theory, needing a human to deliver, having both explicit clarification of values and presenting personalized probabilities of outcomes, being personalized to patient, tailored to target population, used by patient and provider, used by patient only, includes human for logistical support, includes support group, includes patient navigator.