

Supplement A. Search strategy and inclusion/exclusion criteria

Search strategy	paediatric* or pediatric* or child* or infant* or teen* or youth or adolescen*) AND (decision aid* or decision making or decision-making or decision support technique or decision coaching) AND (controlled trial or random allocation or clinical trial* or RCT or comparative study or evaluat* or pilot or feasibility or intervention).
Limits	English language, humans and original journal articles
Inclusion criteria	<ul style="list-style-type: none">• We included studies that evaluated a child patient/parent health decision-making intervention in the pediatric population, including interventions for parents of neonates, and for parents of soon-to-be-born children.• Shared decision-making interventions were defined as any intervention (e.g. decision aid, decision coaching method) targeting any, or all, of the essential elements of Makoul's definition of SDM.• We included interventions targeted at 1) healthcare professionals, 2) patients, 3) parents, or 4) a combination. We included any format of intervention evaluation (e.g. randomized control trials, before-after pilot studies).
Exclusion criteria	We excluded articles that were not published in a peer-reviewed journal, and studies published in a language other than English.

Supplement B. Acceptability, knowledge and decision-making instruments from included articles

		Feasibility		Knowledge			Psychometrically evaluated decision-making instruments
		Number of items	Response options	Number of items	Response options	Analysis	
1	Ahmed et al 2017	Parent: 20 items HCP: 9 items	Parent: 3-point scale HCP: 5-point scale	N/A	N/A	N/A	<ul style="list-style-type: none"> Control preferences scale – pediatric
2	Allingham et al 2018	Parent: 27 items HCP: 2 items	Parent: Various scales HCP: Open-ended + unknown	Subjective: 7 items Objective: 10 items	Subjective: 5-point scale Objective: 'yes'/'no'/'not sure	<ul style="list-style-type: none"> Total summation of correct responses Comparisons of means at time points 	<ul style="list-style-type: none"> Decision Regret Scale
3	Al Faleh et al 2011	Parent: 9 items	Parent: 5-point scale	Objective: 8 items	Objective: Did not report	<ul style="list-style-type: none"> Total summation of correct responses Comparisons of means at time points 	<ul style="list-style-type: none"> Decisional Conflict Scale
4	Bejarno et al 2015	Parent: 12 items HCP: 5 items	Parent: 5-point scale + open-ended for two items HCP: 5-point scale	Objective: 5 items	Objective: Multiple choice	<ul style="list-style-type: none"> Total summation of correct responses Comparisons of means at time points 	<ul style="list-style-type: none"> Decision Regret Scale SURE test
5	Brinkman et al 2013	N/A	N/A	Objective: 15 items	Objective: 'true'/'false'/'don't know' + multiple choice options for two items	<ul style="list-style-type: none"> Total summation of correct responses Comparisons of means between groups 	<ul style="list-style-type: none"> OPTION (involvement scale) Decisional Conflict Scale
6	Carlson et al 2017	Parent: Did not report	Parent: Did not report	N/A	N/A	N/A	

7	Clark-Pounder et al 2015	N/A	N/A	N/A	N/A	N/A	
8	Coexter et al 2017	Parent: 5 items	Parent: 3-point scale for 4 items + 4-point scale for 1 item	Objective: 10 items	Objective: 'true'/'false'/ open-ended	<ul style="list-style-type: none"> • Total summation of correct responses • Comparisons of means between groups 	<ul style="list-style-type: none"> • Decision self-efficacy scale • Decisional conflict scale - low literacy
9	Delaney et al 2017	HCP: interview	HCP: interview	N/A	N/A	N/A	
10	Feenstra et al 2015	Parent: 9 items Child: 9 items	Parent: 3-point scale for 8 items + 2-point scale for 1 item Child: 3-point scale for 8 items + 2-point scale for 1 item	N/A	N/A	N/A	<ul style="list-style-type: none"> • Dyadic OPTION scale • Decisional conflict scale - low literacy
11	Hess et al 2018	Parent: 6 items HCP: 3 items	Parent: 2-point scale for 5 items + 3-point scale for 1 item HCP: 2-point scales	Objective: 10 items	Objective: 'true'/'false'/'unsure'	<ul style="list-style-type: none"> • Total summation of correct responses • Comparisons of means between groups 	<ul style="list-style-type: none"> • Decisional Conflict Scale • OPTION (involvement scale)
12	Jackson 2011	N/A	N/A	Objective: Did not report	Objective: Multiple choice	<ul style="list-style-type: none"> • Total summation of correct responses • Comparisons of means at time points 	<ul style="list-style-type: none"> • Decisional Conflict Scale
13	Jackson 2010	Parent: 3 items + interview	Parent: 3-point scale + open-ended response	Objective: Did not report	Objective: Did not report	<ul style="list-style-type: none"> • Total summation of correct responses • Comparisons of means at time points 	<ul style="list-style-type: none"> • Decisional Conflict Scale
14	Johnston et al	Parent:	Parent:	Objective:	Objective:	• Total summation of	• Decisional Conflict Scale

	2009	Did not report	4-point scale	5 items	‘true’/‘false’/‘unsure’	correct responses • Comparisons of means at time points	
15	Ossebaard 2010	Parent: Did not report	Parent: Did not report	Subjective: Single item	Subjective: 10-point scale	• Did not report calculation of total score • Comparison of means at time points	• Decisional Conflict Scale
16	Parker et al 2018	N/A	N/A	N/A	N/A	N/A	• Decisional Conflict Scale
17	Robertson et al 2018	Parent: Interview HCP: Interview	Parent: Interview HCP: Interview	N/A	N/A	N/A	
18	Robertson et al 2019	Parent: 23 items Adolescent: 22 items	Parent: 2-10 point scale + 1 open-ended response Adolescent: 2-10 point scale + 1 open-ended response	Parent Objective: 17 items Subjective: 12 items Adolescent Objective: 13 items Subjective: 7 items	Objective: ‘Agree’, ‘disagree’, ‘unsure’ Subjective: 5-point scale	Objective • odds ratios via a logistic regression model Subjective • Wilcoxon signed rank tests	• Decisional Conflict Scale • Decision Regret Scale
19	Sajeev et al 2017	Parent: 9 items HCP: 34 items	Parent: 4-point scale HCP: 5-point scale	Subjective: 4 items	Subjective: 4-point scale	• Perceived improvement in understanding post-intervention	• Decision Regret Scale • Satisfaction with Decision Scale
20	Shirley et al 2015	Parent: 12 items	Parent: 5-point scale + 2 open-ended responses	Objective: 5 items	Objective: Multiple choice	• Total summation of correct responses • Comparisons of means	• SURE test

		HCP: 5 items	HCP: 5-point scale			at time points	
21	Shourie et 2013	N/A	N/A	Objective: 11 items	Objective: Multiple-choice	<ul style="list-style-type: none"> • Total summation of correct responses • Comparisons of means at time points 	<ul style="list-style-type: none"> • Decisional Conflict Scale
22	Westermann et al 2013	Parent: Did not report	Parent: Did not report	N/A	N/A	N/A	<ul style="list-style-type: none"> • Decisional Conflict Scale • Provider Decision Process Assessment Instrument
23	Wroe 2005	Parent: 3 items	Parent: 0 – 100	N/A	N/A	N/A	<ul style="list-style-type: none"> • Satisfaction with Decision Scale

Note. HCP=healthcare professional; N/A=not assess