Appendix E4. Studies or results missing from meta-analysis

Record ID	outcome domain no	Study ID	No. randomised	Meta-analysis from which study is missing	Population-specific outcome	Main reason for missingness (studies coded as (a) were included in the MA, so do not appear here)	Specific reason result is missing from MA
R036-S	1	Davodabady 2021	82	Pain	periprocedural pain intensity	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - statistician matching of analyses confirmed that the results are not possible (e.g. recalculating SDs from reported statistics)
R037-S	1	de Oliveira 2017	20	Pain	pain overall	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R039-S	1	Dehghanmehr 2018	60	Pain	periprocedural distress	(c) missing result or data uninterpretable/has errors/cannot be verified	Results judged to be uninterpretable: (1) two different measures are reported for same results (described as 'Observational Scale of Behavioural Distress-Revised (OSBD-R)' and in two places "obsessive-compulsive behavioural observational scale") without referencing a publication from which to confirm the measure, (2) description of what is measured is therefore unclear, i.e.. could be emotional functioning or pain (the latter being what the 'Observational Scale of Behavioural Distress-Revised'), and (3) the reporting of results (headers say SD+/-mean).
R045-S	1	Duymaz 2020	50	Pain	pain severity on defecation	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R057-S	1	Gol 2021	60	Pain	postoperative pain intensity - late acute	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - statistician matching of analyses confirmed that the results are not possible (e.g. recalculating SDs from reported statistics)
R084-S	1	Kapikiran 2021	120	Pain	postoperative pain intensity - late acute [72 hrs]	(b) data required for meta-analysis not reported and could not be calculated or imputed	missing_sd
R083-S	1	Kapikiran 2022	156	Pain	postoperative pain intensity [timeframe NR]	(b) data required for meta-analysis not reported and could not be calculated or imputed	n_mean_sum_squares
R087-S	1	Kardan 2020	120	Pain	postprocedural back pain intensity - early acute	(c) missing result or data uninterpretable/has errors/cannot be verified	Both arms have means & SDs of 0 at baseline; intervention group mean and SD at follow up is 0. Does not contribute.
R010-S	2	Alinia-najjar 2020	52	Sleep	sleep satisfaction	(b) data required for meta-analysis not reported and could not be calculated or imputed	n_min_med_max
R016-S	2	Aydin 2021	76	Sleep	sleep quality overall	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R054-S	2	Ghanbari 2022	64	Sleep	sleep quality overall	(c) missing result or data uninterpretable/has errors/cannot be verified	(1) The numbers in the sham column for sleep quality have been copied for the pre-intervention and immediately post-intervention. There's no way to tell from the text whether these values are for pre- or immediately post. (2) This may be a transcription error but the nature of results reported makes this sufficiently concerning that we judged results should not be used.
R138-S	2	Sayari 2021.1	90	Sleep	sleep quality overall	(b) data required for meta-analysis not reported and could not be calculated or imputed	Sleep quality reported in Sayari 2021.2_#1053 - abstract only. "Sleep quality with VAS and Pittsburgh on first and second day after intervention wasn't significantly different in the treatment groups compared with the control and the placebo groups and in the control group than the placebo group (P>0.05).
R028-S	3	Brygge 2001	40	Fatigue	severity of fatigue	(c) missing result or data uninterpretable/has errors/cannot be verified	No quantitative results for SF-36. "In general, almost all the parameters in both groups improved throughout the study. The active group improved significantly on the dimensions: physical function, (lack of) physical limitations, and vitality, whereas the placebo group only improved on (lack of) physical limitations. Three dimensions showed group inequalities after and, in part, before treatment, but when improvements i.e. before±after differences were compared, no significant differences between the two groups was detected on any of the eight scales."
R135-S	3	Sajadi 2020b	68	Fatigue	fatigue severity overall	(c) missing result or data uninterpretable/has errors/cannot be verified	(1) The numbers in the control column for energy/fatigue have been copied for the pre-intervention and post-intervention. There's no way to tell from the text whether these values are for pre- or post. (2) This has also occurred for the role disorder due to emotional problems subscale.
R010-S	4	Alinia-najjar 2020	52	Emotional functioning/mental health	periprocedural pain-related anxiety	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R017-S	4	Azima 2015	68	Emotional functioning/mental health	anxiety symptom severity	(c) missing result or data uninterpretable/has errors/cannot be verified	For STAI (anxiety), there are problems with the reporting (errors and scale scores [trait & anxiety] appear to have been combined, which is not valid) such that we judged that data should not be included for meta-analysis. It is unclear whether the authors summed up the two subscale scores, but this seems highly likely since the mean anxiety scores reported are around 90-100.
R036-S	4	Davodabady 2021	82	Emotional functioning/mental health	periprocedural anxiety	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - statistician matching of analyses confirmed that the results are not possible (e.g. recalculating SDs from reported statistics)
R066-S	4	Heidari 2017	90	Emotional functioning/mental health	preprocedural anxiety	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R118-S	4	Ozdelikara 2017	60	Emotional functioning/mental health	mental distress severity	(b) data required for meta-analysis not reported and could not be calculated or imputed	n_mean_sum_squares
R129-S	4	Ramezanibadr 2018	150	Emotional functioning/mental health	preprocedural anxiety	(b) data required for meta-analysis not reported and could not be calculated or imputed	missing_sd A reasonable imputation of the SD could not be found in this case.
R143-S	4	Shahsavari 2017	80	Emotional functioning/mental health	preprocedural anxiety	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R150-S	4	Şimşek 2022	58	Emotional functioning/mental health	mental distress symptom severity	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
R161-S	4	Tsay 2008	62	Emotional functioning/mental health	postoperative anxiety - late acute [120 hrs]	(b) data required for meta-analysis not reported and could not be calculated or imputed	missing_sd A reasonable imputation of the SD could not be found in this case.
R172-S	4	Wyatt 2021	197	Emotional functioning/mental health	depression symptoms	(c) missing result or data uninterpretable/has errors/cannot be verified	PROMIS depression preferred, but this measure (and PROMIS anxiety) only measured at week 12 and results cannot be used because of group switches/reporting of combined data.
R011-S	5	Alsharaway 2021	35	HR-QoL	overall HR-QoL	(c) missing result or data uninterpretable/has errors/cannot be verified	(1) unable to verify which group is reported in which column - no summary statistics in text to assist with this (2) post-intervention scores for each group show worsening impact of CAT, however interpretation in discussion is of improvement
R028-S	5	Brygge 2001	40	HR-QoL	overall HR-QoL	(c) missing result or data uninterpretable/has errors/cannot be verified	No quantitative results reported for SF-36. "In general, almost all the parameters in both groups improved throughout the study. The active group improved significantly on the dimensions: physical function, (lack of) physical limitations, and vitality, whereas the placebo group only improved on (lack of) physical limitations. Three dimensions showed group inequalities after and, in part, before treatment, but when improvements i.e. before±after differences, were compared, no significant differences between the two groups was detected on any of the eight scales."
R050-S	5	Elbasan 2018	52	HR-QoL	overall HR-QoL	(b) data required for meta-analysis not reported and could not be calculated or imputed	Missing result (HRQoL [CHQ-PF50] reported in conference abstract as within-group direction and p-value only)
R068-S	5	Hodgson 2000	12	HR-QoL	overall HR-QoL	(c) missing result or data uninterpretable/has errors/cannot be verified	Major error in items administered in study.

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30	R118-S	5	Ozdelikara 2017	60	HR-QoL	overall HR-QoL	(b) data required for meta-analysis not reported and could not be calculated or imputed	n_mean_sum_squares
31	R120-S	5	Ozkan 2017	60	HR-QoL	overall HR-QoL	(c) missing result or data uninterpretable/has errors/cannot be verified	(1) The numbers from pre- to post- are identical (to the decimal place) for median and 25th and 75th centile (as is case for other outcomes), (2) major or multiple errors in the data, with substantial impact on results.
32	R169-S	5	Wilkinson 2006	20	HR-QoL	overall HR-QoL	(b) data required for meta-analysis not reported and could not be calculated or imputed	p-value only, no summary statistics or change scores
33	R028-S	6	Brygge 2001	40	Physical function	physical functioning	(c) missing result or data uninterpretable/has errors/cannot be verified	No quantitative results reported for SF-36. "In general, almost all the parameters in both groups improved throughout the study. The active group improved significantly on the dimensions: physical function, (lack of) physical limitations, and vitality, whereas the placebo group only improved on (lack of) physical limitations. Three dimensions showed group inequalities after and, in part, before treatment, but when improvements i.e. before±after differences, were compared, no significant differences between the two groups was detected on any of the eight scales."
34	R037-S	6	de Oliveira 2017	20	Physical function	physical functioning	(c) missing result or data uninterpretable/has errors/cannot be verified	Unclear formulation of results (multiple errors in reported formula); reporting average of % change from baseline
35	R118-S	6	Ozdelikara 2017	60	Physical function	function	(b) data required for meta-analysis not reported and could not be calculated or imputed	n_mean_sum_squares
36	R120-S	6	Ozkan 2017	60	Physical function	physical functioning	(c) missing result or data uninterpretable/has errors/cannot be verified	(1) The numbers from pre- to post- are identical (to the decimal place) for median and 25th and 75th centile (as is case for other outcomes), (2) major or multiple errors in the data, with substantial impact on results.
37	R028-S	7	Brygge 2001	40	Global symptoms	asthma symptoms	(b) data required for meta-analysis not reported and could not be calculated or imputed	p-value only, no summary statistics or change scores
38	R045-S	7	Duymaz 2020	50	Global symptoms	constipation symptoms	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
39	R054-S	7	Ghanbari 2022	64	Global symptoms	restless legs syndrome severity	(c) missing result or data uninterpretable/has errors/cannot be verified	(1) The numbers in the sham column for sleep quality have been copied for the pre-intervention and immediately post-intervention. There's no way to tell from the text whether these values are for pre- or immediately post. (2) This may be a transcription error but the nature of results reported makes this sufficiently concerning that we judged results should not be used.
40	R086-S	7	Karatas 2021	45	Global symptoms	infantile colic symptoms	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
41	R114-S	7	Norheim 2023	20	Global symptoms	rhinosinusitis symptoms	(b) data required for meta-analysis not reported and could not be calculated or imputed	missing_sd A reasonable imputation of the SD could not be found in this case.
42	R118-S	7	Ozdelikara 2017	60	Global symptoms	overall cancer symptoms	(b) data required for meta-analysis not reported and could not be calculated or imputed	n_mean_sum_squares
43	R133-S	7	Ross 2002	26	Global symptoms	symptom severity overall	(c) missing result or data uninterpretable/has errors/cannot be verified	No result reported for this outcome.
44	R142-S	7	Shahriari 2021	90	Global symptoms	pruritus severity	(c) missing result or data uninterpretable/has errors/cannot be verified	Very large SMD - implausible sized SMDs and spot checking extremes (SMDs of 3 and ~20) indicated problems with the data
45	R170-S	7	Williamson 2002	80	Global symptoms	menopause symptom severity	(c) missing result or data uninterpretable/has errors/cannot be verified	Our preferred outcome was 'WHQ vasomotor symptoms' subscale. No quantitative data were reported for our preferred measure or the other measure eligible for the Global symptoms domain (WHQ - somatic symptoms subscale). Authors report: "A similar pattern of changes was seen in most other symptom subscores (somatic symptoms, vasomotor symptoms, memory/concentration, sleep problems, menstrual symptoms and feelings of attractiveness) (i.e. fall from baseline to sixth treatment with no further change, data not presented). There were no group differences. Only the scores for sexual behaviour showed a different pattern, with little evidence of change in either group."