

Supplement document S1. Search strategy

PubMed

(low back pain) AND ((exercise therapy) OR (cognitive behavior therapy[MeSH Terms]) OR (multidisciplinary biopsychosocial rehabilitation) OR (Psychosocial Support Systems[MeSH Terms]) OR (Occupational Therapy[MeSH Terms]) OR (Patient Education[MeSH Terms]) OR (Biofeedback[MeSH Terms]))

=1210 (04.03.2022.)

Ovid

(Journals@Ovid Full Text & Cochrane Central Register of Controlled Trials, CINAHAL + PsycINFO)

- 1 randomized controlled trial.pt.
- 2 controlled clinical trial.pt.
- 3 random*.ti,ab.
- 4 or/1-3
- 5 exp back pain/ or exp low back pain/
- 6 chronic low back pain.mp.
- 7 dorsalgia.mp.
- 8 lumbago.mp.
- 9 or/5-8
- 10 exp exercise therapy/ or exp motion therapy, continuous passive/ or exp muscle stretching exercises/ or exp plyometric exercise/ or exp resistance training/
- 11 exercise thera\$.mp.
- 12 10 or 11
- 13 Multidisciplinary Biopsychosocial Rehabilitation.mp. [mp=ti, ab, tx, ct, ot, sh, hw, kw]
- 14 exp social support/
- 15 exp occupational therapy/
- 16 exp Patient Education/
- 17 exp Behavior Therapy/
- 18 exp biofeedback, psychology/
- 19 or/13-18
- 20 4 and 9 8402
- 21 12 or 19
- 22 20 and 21 **1354 (04.03.2022.)**

Ovid

(EMBASE)

- 1 randomized controlled trial.pt.
- 2 controlled clinical trial.pt.
- 3 random*.ti,ab.
- 4 or/1-3
- 5 exp back pain/ or exp low back pain/
- 6 chronic low back pain.mp.
- 7 dorsalgia.mp.
- 8 lumbago.mp.
- 9 or/5-8
- 10 exp exercise therapy/ or exp motion therapy, continuous passive/ or exp muscle stretching exercises/ or exp plyometric exercise/ or exp resistance training/
- 11 exercise thera\$.mp.
- 12 10 or 11
- 13 Multidisciplinary Biopsychosocial Rehabilitation.mp. [mp=ti, ab, tx, ct, ot, sh, hw, kw]
- 14 exp social support/
- 15 exp occupational therapy/
- 16 exp Patient Education/
- 17 exp Behavior Therapy/
- 18 exp biofeedback, psychology/
- 19 or/13-18
- 20 4 and 9 8402
- 21 12 or 19
- 22 20 and 21 **1860 (04.03.2022.)**

PEDro

Therapy: fitness training

Problem: pain

Body part: Lumbar spine, sacroiliac joint or pelvis

Topic: chronic pain

Method: clinical trial

Match all search terms (AND)

= 195 (04.03.2022.)

Supplement document S2. Risk of Bias 2 Overall category explained

The overall risk of bias in our network meta-analysis was determined by an algorithm that considered the importance and level of bias across different domains, namely D1, D3, and D4. The risk of bias was classified into three categories: Low Bias (LB), Some Concerns (SC), and High Bias (HB). Domains D1, D3, and D4 were classified as most having the most impact on risk of bias in eligible studies. In the methodology of our analysis, we identified D1, D3, and D4 as the most impactful domains for the bias assessment due to their inherent attributes in study design and data management. We recognized D2 (Bias due to deviations from intended interventions) and D5 (Bias in selection of the reported result) as important but slightly less influential in determining the overall bias for several reasons. For D2, it's critical to acknowledge the complex nature of many interventions in medical research, especially those that span a long duration. In these contexts, minor deviations from the intended intervention protocol are somewhat inevitable. Further, blinding of caregivers is often impracticable due to the nature of the interventions. These factors decrease the relative weight of D2 in bias determination as deviations may occur without significantly compromising the reliability of the study results.

For D5, the assessment of bias in the selection of reported results can be challenging due to the lack of publicly available pre-study protocols, particularly for older studies. This limitation often restricts our ability to definitively determine if the re-reported outcomes were selected based on the results.

Despite the differential weighting of these domains, it is essential to stress that all were considered in our overall risk of bias assessment, however D1, D3, and D4 generally tend to carry more weight due to their more direct influence on study outcomes and results.

1. The studies were classified as having "Low Bias" if all domains were assessed as LB or if domains D2 and/or D5 were assessed as having some concerns, but all other domains were LB.
2. The classification "Some Concerns" was assigned if either D1, D3, or D4 were assessed as having some concerns or if all other domains were LB while D2 and/or D5 were rated as high bias.
3. A classification of "High Bias" was assigned under the following conditions: if either D1, D3, or D4 were rated as high bias, if D1, D3, or D4 were assessed as having some concerns and D2 and D5 were high bias, or under any other combination not fitting the previous categories.

ET vs MBR for pain and disability in cLBP

Fig S1. PRISMA flow diagram

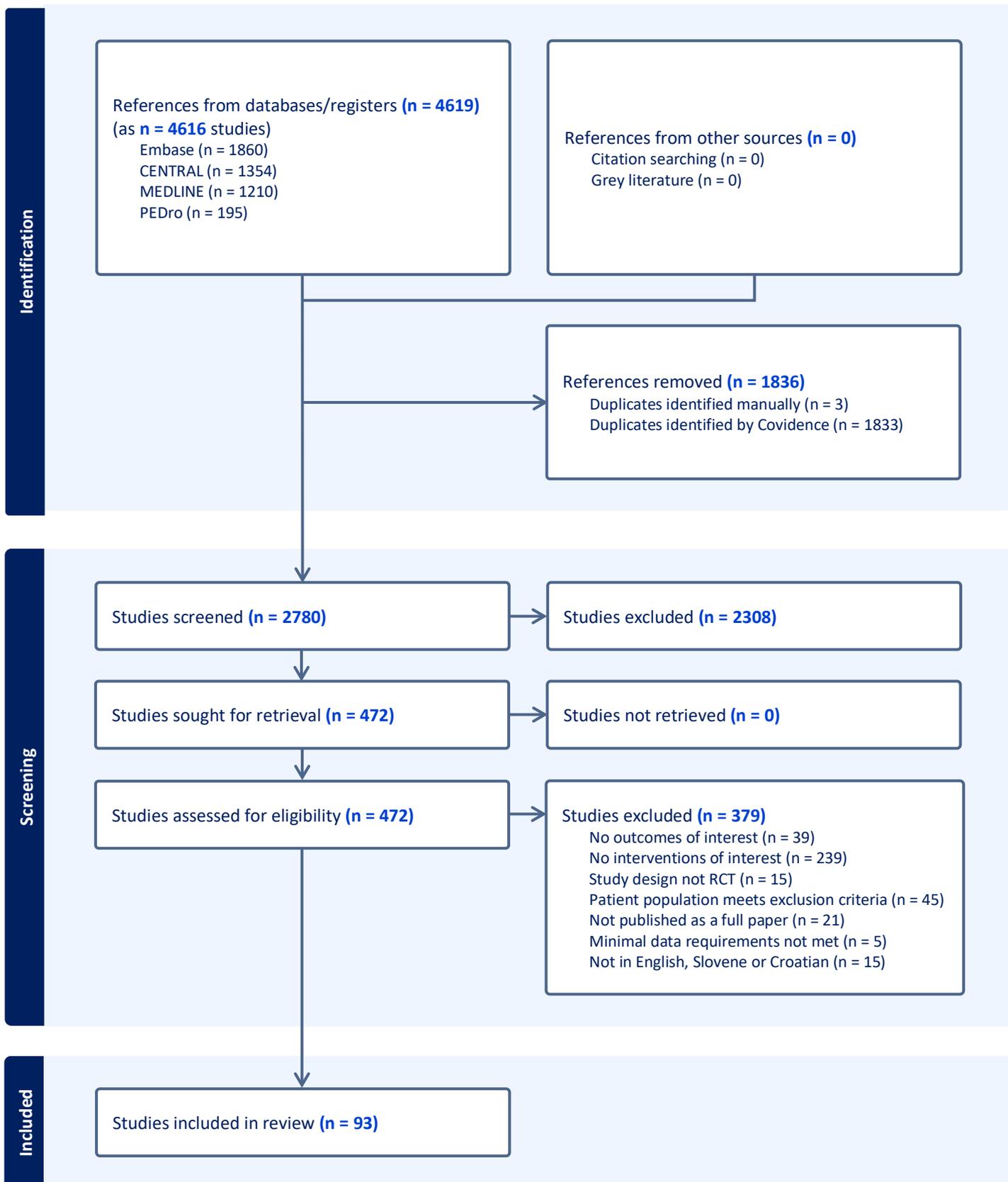


Table S1. Characteristics of included studies (k = 93)

Author, year	Pain outcomes	Disability outcomes	Comparison	# of participants
Ahmed 2021	VAS (0-10)	ODI	ET vs MBR vs UC	125
Almhdawi 2020	VAS (0-10)	ODI	ET vs MI	41
Alvani 2021	VAS (0-10)	ODI	ET vs MI	30
Barone Gibbs 2018	VAS (0-10)	ODI	MBR vs MI	27
Bodes Pardo 2018	VAS (0-10)	RMDQ	ET vs MBR	56
Borys 2015	VAS (0-10)	//	MBR vs MI	132
Costa 2009	VAS (0-10)	RMDQ	ET vs UC	154
Costantino 2014	//	RMDQ	ET vs MBR	54
Cruz-Diaz 2018	VAS (0-10)	RMDQ	ET vs MI	61
Cuesta-Vargas 2012	VAS (0-100)	RMDQ	ET vs UC	58
Darnall 2021	VAS (0-10)	//	MBR vs MI	218
Devasahayam 2014	VAS (0-10)	RMDQ	MBR vs UC	15
Donzelli 2006	VAS (0-10)	ODI	ET vs MBR	43
Dufour 2010	VAS (0-100)	RMDQ	ET vs MBR	272
Durmus 2014	VAS (0-10)	ODI	ET vs MBR	121
Frost 1995	VAS (0-100)	ODI	ET vs MI	71
Garcia 2018	VAS (0-10)	RMDQ	MI vs MBR	147
Gardner 2019	VAS (0-10)	QBPDs	ET vs MBR	75
Godfrey 2020	VAS (0-10)	RMDQ	MBR vs UC	217
Goldby 2006	VAS (0-100)	ODI	MI vs MBR	124
Hall 2011	VAS (0-10)	RMDQ	ET vs MI	160
Haufe 2017	VAS (0-10)	ODI	ET vs vs MI	55
Highland 2018	VAS (0-10)	RMDQ	ET vs vs MI	68
Jaromi 2012	VAS (0-100)	//	UC vs MBR	111
Jaromi 2018	VAS (0-100)	//	MBR vs MI	137
Jensen 2012	VAS (0-10)	RMDQ	ET vs MI	100
Kääpä 2006	VAS (0-10)	ODI	ET vs MBR	120
Kader 2012	MGPQ (0-78)	ODI	ET vs MBR	42
Kankaanpää 1999	VAS (0-100)	PDI	ET vs MI	54
Khan 2014	VAS (0-10)	RMDQ	UC vs MBR	54
Khodadad 2020	VAS (0-10)	//	ET vs UC vs MBR	52
Kim 2020	VAS (0-10)	ODI	ET vs MBR	48
Kim 2022	VAS (0-10)	RMDQ	ET vs MBR	35
Kofotolis 2006	VAS (0-10)	ODI	ET vs UC	86
Koldas Dogan 2008	VAS (0-100)	RMDQ	ET vs UC	55
Kumar 2009 A	VAS (0-10)	//	ET vs UC	102
Kumar 2009 B	VAS (0-10)	//	ET vs UC	30
Kuvacic 2018	VAS (0-10)	ODI	ET vs MI	30
Linden 2014	VAS (0-10)	//	MBR vs UC	103
Masharawi 2013	VAS (0-10)	RMDQ	ET vs MI	40
Mazloun 2018	VAS (0-10)	ODI	ET vs MI	56
McCaskey 2018	VAS (0-100)	ODI	ET vs UC	22
Michalsen 2021	VAS (0-100)	RMDQ	ET vs UC	182
Miyamoto 2013	VAS (0-10)	RMDQ	ET vs MI	86
Monticone 2013	VAS (0-10)	//	ET vs MBR	90

Author, year	Pain outcomes	Disability outcomes	Comparison	# of participants
Monticone 2014	VAS (0-10)	ODI	UC vs MBR	20
Monticone 2016	VAS (0-10)	ODI	UC vs MBR	150
Morone 2011	VAS (0-10)	ODI	MI vs MBR	70
Morone 2012	VAS (0-10)	ODI	MBR vs MI	50
Moseley 2002	VAS (0-10)	RMDQ	MI vs MBR	57
Nambi 2021	VAS (0-10)	//	ET vs UC	54
Narouei 2020	VAS (0-10)	ODI	ET vs UC	34
Nassif 2011	VAS (0-10)	RMDQ	MI vs MBR	75
Natour 2015	VAS (0-10)	RMDQ	ET vs MI	60
Nicholas 1991	PRC (0-5)	//	MBR vs UC	59
Okafor 2012	VAS (0-10)	//	ET vs UC	30
O'Keefe 2020	VAS (0-10)	ODI	MBR vs UC	194
Patti 2016	//	ODI	ET vs MI	38
Paungmali 2017	VAS (0-10)	//	ET vs vs MI	50
Petrozzi 2019	VAS (0-10)	RMDQ	UC vs MBR	108
Phattharasupharerk 2019	VAS (0-100)	RMDQ	ET vs MI	72
Pires 2015	VAS (0-100)	QBPDs	ET vs MBR	62
Polaski 2021	VAS (0-10)	RMDQ	MBR vs MI	38
Rabiei 2021	VAS (0-10)	RMDQ	ET vs MBR	73
Roche-Leboucher 2011	VAS (0-10)	//	ET vs MBR	132
Rydeard 2006	VAS (0-100)	RMDQ	ET vs Uc	39
De Sousa 2009	VAS (0-10)	RMDQ	MBR vs MI	52
Santos 2022	VAS (0-10)	RMDQ	ET vs MI	43
Saper 2009	VAS (0-10)	RMDQ	ET vs MI	30
Saper 2017	VAS (0-10)	RMDQ	ET vs MI	320
Schinhan 2016	VAS (0-10)	//	ET vs MI	30
Shamsi 2016	VAS (0-100)	ODI	ET vs UC	43
Shaughnessy 2004	//	RMDQ	ET vs MI	41
Sherman 2011	VAS (0-10)	RMDQ	ET vs MI	228
Tilbrook 2011	//	RMDQ	ET vs UC	299
Torstensen 1998	VAS (0-100)	ODI	ET vs UC	138
Tritilanunt 2001	VAS (0-10)	//	ET vs MBR	68
Turner 1990	MGPQ (0-78)	//	ET vs MBR vs MI	96
Valenza 2017	VAS (0-10)	RMDQ	ET vs MI	54
VanDerRoer 2008	VAS (0-10)	RMDQ	UC vs MBR	114
vanErp 2021	VAS (0-10)	QBPDs	UC vs MBR	25
VibeFersum 2013	VAS (0-10)	ODI	MBR vs UC	94
Vollenbroek-Hutten 2004	//	RMDQ	MI vs MBR	151
Walti 2015	VAS (0-10)	RMDQ	UC vs MBR	28
Waseem 2019	//	ODI	ET vs UC	108
Weifen 2013	VAS (0-100)	//	ET vs MI	188
Williams 2009	VAS (0-100)	ODI	ET vs MI	90
Williams 2018	VAS (0-10)	RMDQ	MBR vs MI	159
Yang 2021	VAS (0-100)	RMDQ	ET vs UC	39
Zadro 2019	VAS (0-10)	RMDQ	ET vs UC	60
Zhang 2014	VAS (0-10)	ODI	UC vs MBR	54

Author, year	Pain outcomes	Disability outcomes	Comparison	# of participants
Zheng 2022	VAS (0-10)	RMDQ	ET vs MBR	40
Zou 2019	VAS (0-10)	//	ET vs MI	43

Legend: VAS = visual analogue scale; PRC - Pain Rating Chart; ODI = Oswestry Disability Index; RMDQ = Roland – Morris Disability Questionnaire; QBPDS = Quebec Back Pain Disability Scale; PDI = Pain and Disability Index; DI = Disability Index; HFAQ - Hannover Functional Ability Questionnaire; MGPQ = McGill Pain Questionnaire

Table S2. Mean difference and standard error of pain outcomes

ID	MD	SE (MD)	Treatment 1	Treatment 2
Ahmed 2021 ¹	-1.6	2.57	ET	MBR-WR
Ahmed 2021 ¹	-1.8	2.68	ET	UC
Ahmed 2021 ¹	-0.2	2.52	MBR-WR	UC
Almhdawi 2020	-27.0	6.40	ET	MI
Alvani 2021	-14.6	6.06	ET	MI
Barone Gibbs 2018	4.0	8.30	MBR-ED	MI
Bodes Pardo 2018	18.0	4.33	ET	MBR-ED
Borys 2015	-15.0	2.82	MBR-ED	MI
Costa 2009	-10.0	4.35	ET	UC
Cruz-Diaz 2018	-28.0	3.22	ET	MI
Cuesta-Vargas 2012	-14.9	4.37	ET	UC
Darnall 2021	-10.7	3.60	MBR-BE	MI
Devasahayam 2014	10.0	12.23	MBR-BE	UC
Donzelli 2006	4.4	5.23	ET	MBR-ED
Dufour 2010	6.2	2.52	ET	MBR-ED
Durmus 2014	23.7	3.31	ET	MBR-ED
Frost 1995	-10.0	3.78	ET	MI
Garcia 2018	-8.6	4.58	MBR-ED	MI
Gardner 2019	23.0	4.16	ET	MBR-BE
Godfrey 2020	-5.0	3.39	MBR-BE	UC
Goldby 2006	-5.6	6.78	MBR-ED	MI
Hall 2011	-13.0	3.38	ET	MI
Haufe 2017	-16.0	6.20	ET	MI
Highland 2018	-11.9	4.94	ET	MI
Jaromi 2012	-1.3	0.80	MBR-ED	UC
Jaromi 2018	-41.8	1.37	MBR-ED	MI
Jensen 2012	-5.0	4.30	ET	MI
Kääpä 2006	1.0	4.48	ET	MBR-BE
Kader 2012	13.8	5.35	ET	MBR-ED
Kankaanpää 1999	-8.3	7.01	ET	MI
Khan 2014	-25.9	3.65	MBR-ED	UC
Khodadad 2020 ²	1.0	3.86	ET	MBR-BE
Khodadad 2020 ²	-25.0	5.36	MBR-BE	UC
Khodadad 2020 ²	-24.0	5.00	ET	UC
Kim 2020	3.7	4.64	ET	MBR-ED
Kim 2022	5.9	4.46	ET	MBR-ED
Kofotolis 2006	-2.0	1.12	ET	UC
Koldas Dogan 2008	-3.2	8.13	ET	UC
Kumar 2009 A	-12.2	1.54	ET	UC
Kumar 2009 B	-8.7	3.32	ET	UC
Kuvacic 2018	-12.0	2.15	ET	MI
Linden 2014	-10.4	3.81	MBR-BE	UC
Masharawi 2013	-22.0	3.90	ET	MI
Mazloum 2018	-22.5	4.06	ET	MI
McCaskey 2018	0.0	7.08	ET	UC
Michalsen 2021	-3.3	2.21	ET	UC

ID	MD	SE (MD)	Treatment 1	Treatment 2
Miyamoto 2013	-21.0	4.96	ET	UC
Monticone 2013	22.7	2.38	ET	MBR-BE
Monticone 2014	0.0	7.07	MBR-BE	UC
Monticone 2016	-31.0	2.51	MBR-BE	UC
Morone 2011	-18.0	4.66	MBR-ED	MI
Morone 2012	-20.0	6.11	MBR-WR	MI
Moseley 2002	-12.3	5.35	MBR-ED	MI
Nambi 2021	-11.0	1.44	ET	UC
Narouei 2020	-11.0	5.35	ET	UC
Nassif 2011	-16.5	6.32	MBR-ED	MI
Natour 2015	-4.6	7.04	ET	UC
Nicholas 1991	-12.9	4.34	MBR-BE	UC
Okafor 2012	-15.7	4.40	ET	UC
O'Keefe 2020	-16.9	4.28	MBR-BE	UC
Paungmali 2017	-5.5	5.94	ET	MI
Petrozzi 2019	-1.0	3.89	MBR-BE	UC
Phattharasupharerk 2019	-39.5	4.88	ET	MI
Pires 2015	6.1	4.84	ET	MBR-ED
Polaski 2021	-8.5	5.33	MBR-WR	MI
Rabiei 2021	11.2	3.25	ET	MBR-ED
Roche-Leboucher 2011	5.0	3.99	ET	MBR-WR
Rydeard 2006	-15.6	4.74	ET	UC
De Sousa 2009	-14.1	7.36	MBR-BE	MI
Santos 2022	-14.6	5.07	ET	MI
Saper 2009	-27.0	5.94	ET	MI
Saper 2017	-4.9	3.06	ET	MI
Schinhan 2016	-16.4	5.68	ET	UC
Shamsi 2016	0.0	3.92	ET	UC
Sherman 2011	-1.0	3.76	ET	MI
Torstensen 1998	-1.8	4.55	ET	UC
Tritilanunt 2001	16.7	4.51	ET	MBR-ED
Turner 1990 ³	1.6	4.56	ET	MBR-BE
Turner 1990 ³	-6.0	4.73	MBR-BE	MI
Turner 1990 ³	-4.4	4.23	ET	MI
Valenza 2017	-14.0	5.17	ET	UC
Van Der Roer 2008	-1.0	4.53	MBR-BE	UC
Van Erp 2021	-2.0	10.66	MBR-BE	UC
VibeFersum 2013	-21.0	3.75	MBR-BE	UC
Walti 2015	-12.3	6.63	MBR-ED	UC
Weifen 2013	-9.0	0.71	ET	MI
Williams 2009	-8.5	4.64	ET	MI
Williams 2018	0.0	3.60	MBR-ED	MI
Yang 2021	-1.1	6.99	ET	UC
Zadro 2019	-6.0	6.07	ET	UC
Zhang 2014	-6.9	4.99	MBR-ED	UC
Zheng 2022	-1.0	4.30	ET	MBR-ED
Zou 2019	-19.8	3.38	ET	MI

Table S2. Standardized Mean difference and standard error of disability outcomes

ID	SMD	SE (SMD)	Treatment 1	Treatment 2
Ahmed 2021 ¹	0.054	0.224	ET	MBR-WR
Ahmed 2021 ¹	0.167	0.219	ET	UC
Ahmed 2021 ¹	0.113	0.216	MBR-WR	UC
Almhdawi 2020	-0.836	0.327	ET	MI
Alvani 2021	-0.684	0.377	ET	MI
Barone Gibbs 2018	-0.347	0.389	MBR-ED	MI
Bodes Pardo 2018	1.282	0.295	ET	MBR-ED
Costa 2009	-0.369	0.163	ET	UC
Costantino 2014	-0.453	0.276	ET	MBR-ED
Cruz-Diaz 2018	-2.159	0.323	ET	MI
Cuesta-Vargas 2012	-0.783	0.297	ET	UC
Devasahayam 2014	-2.035	0.679	MBR-BE	UC
Donzelli 2006	0.163	0.306	ET	MBR-ED
Dufour 2010	0.255	0.128	ET	MBR-ED
Durmus 2014	0.917	0.191	ET	MBR-ED
Frost 1995	-0.330	0.239	ET	MI
Garcia 2018	-0.295	0.166	MBR-ED	MI
Gardner 2019	0.700	0.238	ET	MBR-BE
Godfrey 2020	-0.218	0.143	MBR-BE	UC
Goldby 2006	0.168	0.200	MBR-ED	MI
Gupta 2019	-7.023	1.036	MBR-WR	UC
Hall 2011	-0.209	0.159	ET	MI
Haufe 2017	-0.429	0.273	ET	MI
Highland 2018	-0.489	0.246	ET	MI
Jensen 2012	0.019	0.215	ET	MI
Kääpä 2006	0.065	0.183	ET	MBR-BE
Kader 2012	0.048	0.309	ET	MBR-ED
Kankaanpää 1999	-0.009	0.274	ET	MI
Khan 2014	-1.956	0.335	MBR-ED	UC
Kim 2020	0.347	0.362	ET	MBR-ED
Kim 2022	0.582	0.341	ET	MBR-ED
Kofotolis 2006	-0.914	0.277	ET	UC
Koldas Dogan 2008	-0.729	0.345	ET	UC
Kuvacic 2018	-0.995	0.390	ET	MI
Masharawi 2013	-0.857	0.332	ET	MI
Mazloum 2018	-0.663	0.339	ET	MI
McCaskey 2018	-0.407	0.432	ET	UC
Michalsen 2021	0.110	0.171	ET	UC
Miyamoto 2013	-0.739	0.223	ET	MI
Monticone 2013	2.756	0.297	ET	MBR-BE
Monticone 2014	-1.858	0.553	MBR-BE	UC
Monticone 2016	-1.889	0.198	MBR-BE	UC
Morone 2011	-0.014	0.243	MBR-ED	UC
Morone 2012	-0.376	0.286	MBR-WR	MI
Moseley 2002	-0.633	0.293	MBR-ED	MI
Narouei 2020	-0.826	0.371	ET	UC

ID	SMD	SE (SMD)	Treatment 1	Treatment 2
Nassif 2011	-0.201	0.259	MBR-ED	MI
Natour 2015	-0.373	0.261	ET	UC
O'Keefe 2020	-0.825	0.183	MBR-BE	UC
Patti 2016	-0.296	0.326	ET	MI
Petrozzi 2019	-0.088	0.194	MBR-BE	UC
Phattharasupharek 2019	-0.581	0.241	ET	MI
Pires 2015	0.460	0.271	ET	MBR-ED
Polaski 2021	-0.746	0.337	MBR-WR	MI
Rabiei 2021	0.560	0.239	ET	MBR-ED
Rydeard 2006	-0.768	0.334	ET	UC
De Sousa 2009	-0.509	0.282	MBR-BE	UC
Santos 2022	-3.678	0.649	ET	MI
Saper 2009	-0.924	0.387	ET	MI
Saper 2017	-0.215	0.157	ET	MI
Shamsi 2016	-0.440	0.309	ET	UC
Shaughnessy 2004	-1.363	0.350	ET	MI
Sherman 2011	-0.252	0.188	ET	MI
Tilbrook 2011	-0.399	0.121	ET	UC
Torstensen 1998	-0.053	0.170	ET	UC
Valenza 2017	-0.826	0.284	ET	MI
Van Der Roer 2008	0.000	0.208	MBR-BE	UC
VanErp 2021	-0.346	0.404	MBR-BE	UC
VibeFersum 2013	-1.466	0.234	MBR-BE	UC
Vollenbroek-Hutten 2004	-0.398	0.165	MBR-ED	MI
Walti 2015	-0.695	0.398	MBR-ED	UC
Waseem 2019	-1.277	0.212	ET	UC
Williams 2009	-0.284	0.228	ET	MI
Williams 2018	-0.298	0.180	MBR-ED	MI
Yang 2021	0.063	0.320	ET	UC
Zadro 2019	-0.333	0.260	ET	UC
Zhang 2014	-0.420	0.289	MBR-ED	UC
Zheng 2022	-0.259	0.318	ET	MBR-ED

Legend (S1 & S2): MD = mean difference; SMD = standardized mean difference; SE (MD) = standard error of mean difference; SE (SMD) = standard error of standardized mean difference; ¹ = three-arm study Ahmed, 2021; ² = three-arm study Khodadad 2020; ³ = three-arm study Turner 1990

Note 1: Difference is calculated as Treatment 1 – Treatment 2

Note 2: Mean difference is on a scale of 0 – 100 (VAS pain)

Fig S2. Risk of Bias 2 visualization (part 1)

	Risk of bias domains					Overall
	D1	D2	D3	D4	D5	
Ahmed 2021						
Almhdawi 2020						
Alvani 2021						
Barone Gibbs 2018						
Bodes Pardo 2018						
Borys 2015						
Costa 2009						
Costantino 2014						
Cruz-Diaz 2018						
Cuesta-Vargas 2012						
Darnall 2021						
Devasahayam 2014						
Donzelli 2006						
Dufour 2010						
Durmus 2014						
Frost 1995						
Garcia 2018						
Gardner 2019						
Godfrey 2020						
Goldby 2006						

Fig S3. Risk of Bias 2 visualization (part 2)

Hall 2011						
Haufe 2017						
Highland 2018						
Jaromi 2012						
Jaromi 2018						
Jensen 2012						
Kääpä 2006						
Kader 2012						
Kankaanpää 1999						
Khan 2014						
Khodadad 2020						
Kim 2020						
Kim 2022						
Kofotolis 2006						
Koldas Dogan 2008						
Kumar 2009 A						
Kumar 2009 B						
Kuvacic 2018						
Linden 2014						
Masharawi 2013						
Mazloun 2018						
McCaskey 2018						
Michalsen 2021						
Miyamoto 2013						
Monticone 2013						

Fig S4. Risk of Bias 2 visualization (part 3)

Morone 2012						
Moseley 2002						
Nambi 2021						
Narouei 2020						
Nassif 2011						
Natour 2015						
Nicholas 1991						
Okafor 2012						
O'Keefe 2020						
Patti 2016						
Paungmali 2017						
Petrozzi 2019						
Phattharasupharek 2019						
Pires 2015						
Polaski 2021						
Rabiei 2021						
Roche-Leboucher 2011						
Rydeard 2006						
De Sousa 2009						
Santos 2022						
Saper 2009						
Saper 2017						
Schinhan 2016						
Shamsi 2016						

Fig S5. Risk of Bias 2 visualization (part 4)

Shaughnessy 2004						
Sherman 2011						
Tilbrook 2011						
Torstensen 1998						
Tritilanunt 2001						
Turner 1990						
Valenza 2017						
VanDerRoer 2008						
vanErp 2021						
VibeFersum 2013						
Vollenbroek-Hutten 2004						
Walti 2015						
Waseem 2019						
Weifen 2013						
Williams 2009						
Williams 2018						
Yang 2021						
Zadro 2019						
Zhang 2014						
Zheng 2022						
Zou 2019						

Domains:

D1: Bias arising from the randomization process.
 D2: Bias due to deviations from intended intervention.
 D3: Bias due to missing outcome data.
 D4: Bias in measurement of the outcome.
 D5: Bias in selection of the reported result.

Judgement

High
 Some concerns
 Low

Frequentist Network meta-analysis of pain outcomes

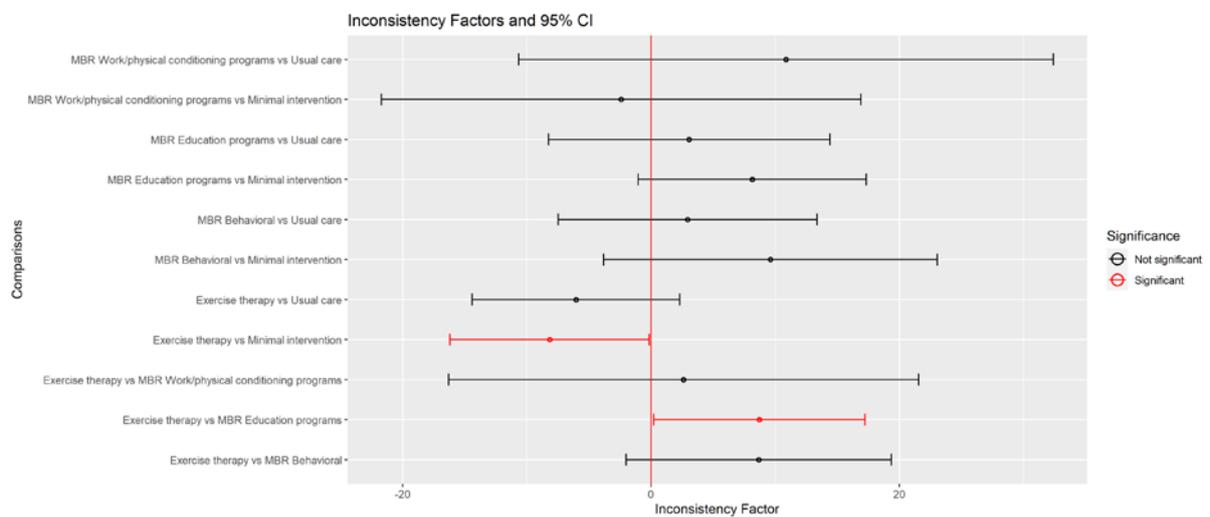
Table S3. Between, within and total homogeneity / consistency

	Q	Df	p-value
Total	920.85	85	<0.001
Within designs	628.07	74	<0.001
Between designs	292.78	11	<0.001

Table S4. Q statistic under the assumption of a full design-by-treatment interaction random effects model

	Q	Df	p-value	τ	τ^2
Between designs	14.39	11	0.212	9.359	87.590

Fig S6. Local inconsistency assessment using inconsistency factors and 95% CI



Frequentist Network meta-analysis of short-term disability outcomes

Table S5. Between, within and total homogeneity / consistency

	Q	Df	p-value
Total	316.89	70	<0.001
Within designs	282.52	65	<0.001
Between designs	34.37	5	<0.001

Table S6. Q statistic under the assumption of a full design-by-treatment interaction random effects model

	Q	Df	p-value	τ	τ^2
Between designs	9.53	5	0.090	0.443	0.196

Fig S7. Local inconsistency assessment using inconsistency factors and 95% CI

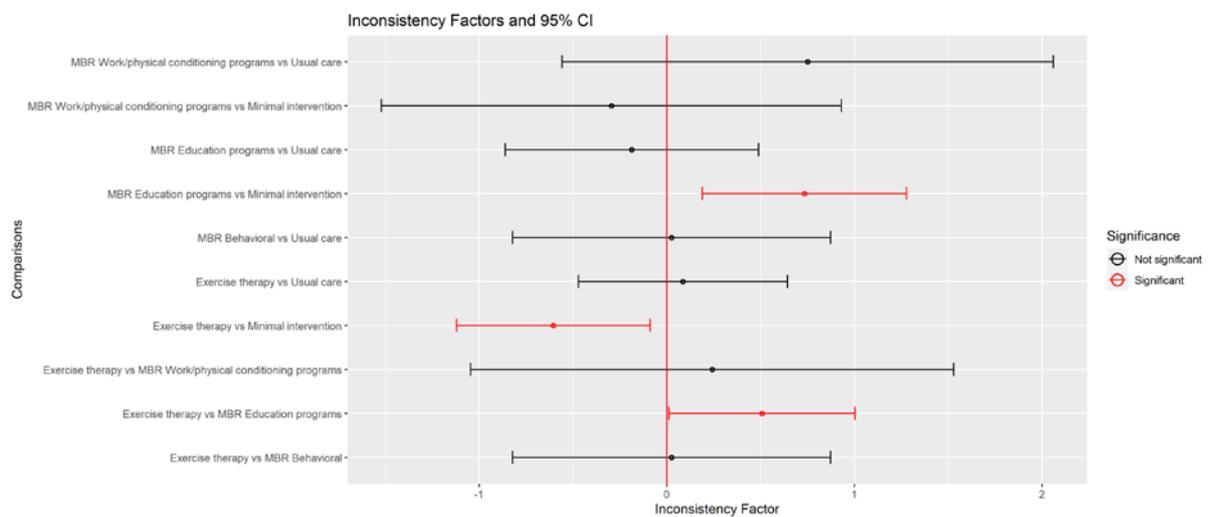


Fig S8. Funnel plot for NMA of pain outcomes

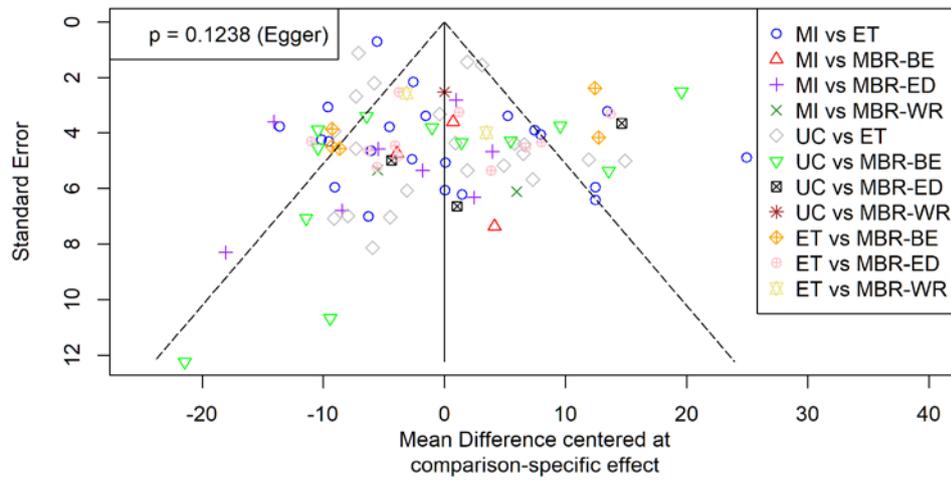
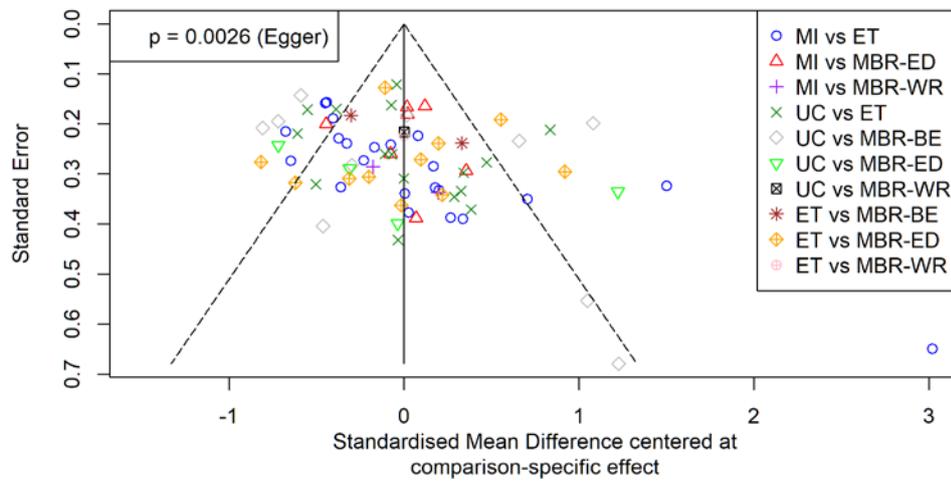


Fig S9. Funnel plot for NMA of disability outcomes



Bayesian Network Meta-Analysis of PAIN outcome

Fig S10. Node-splitting analysis of inconsistency for pain outcome

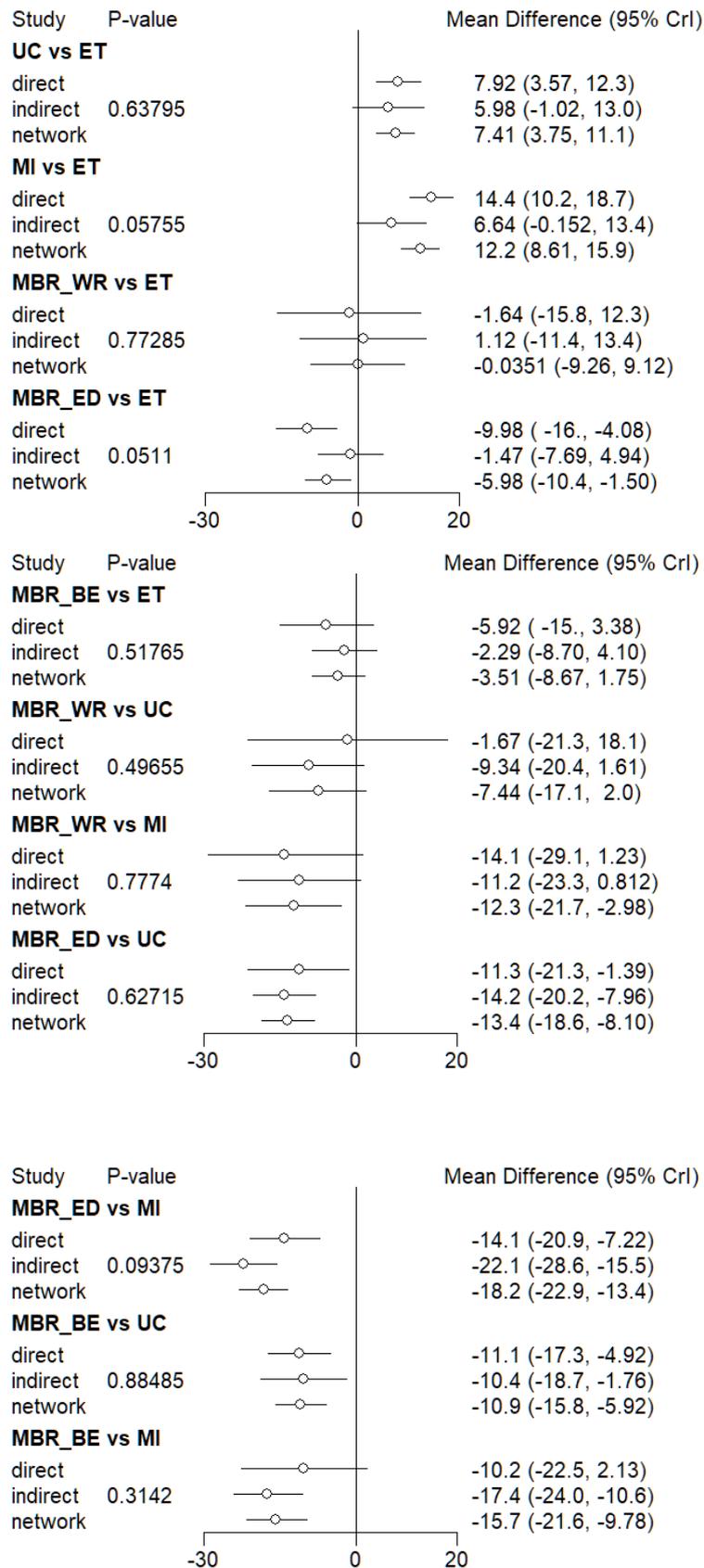


Figure S11. Probability rankings (pain outcome)

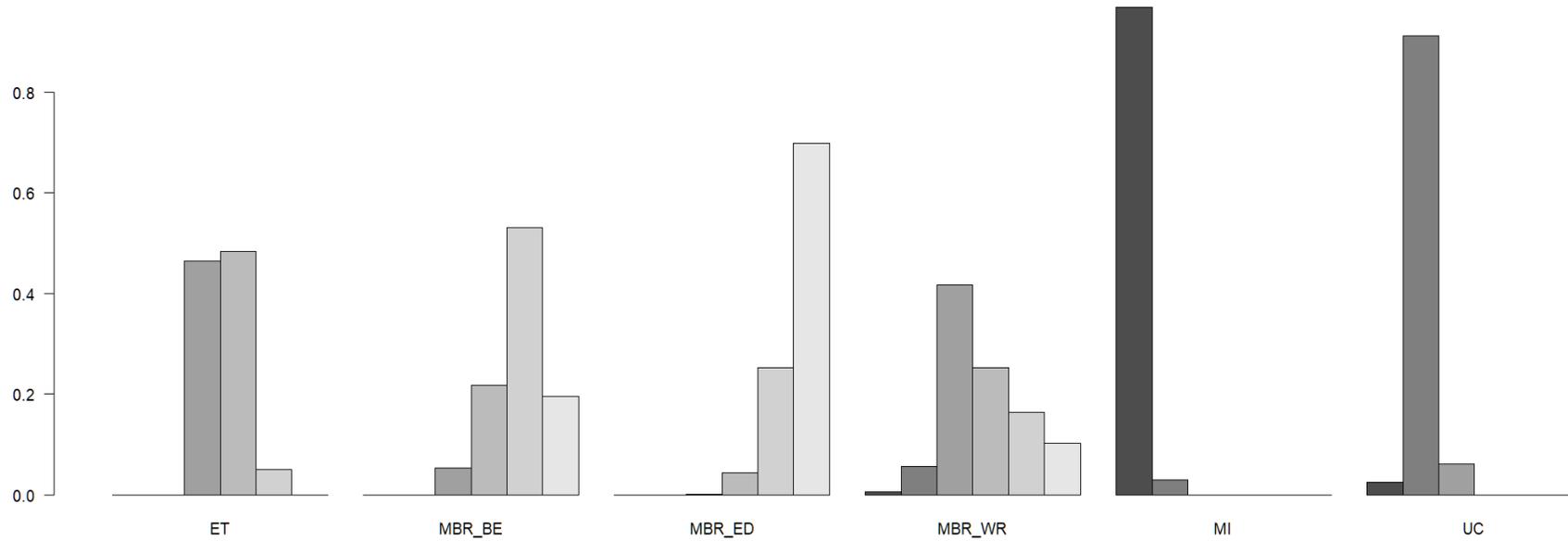
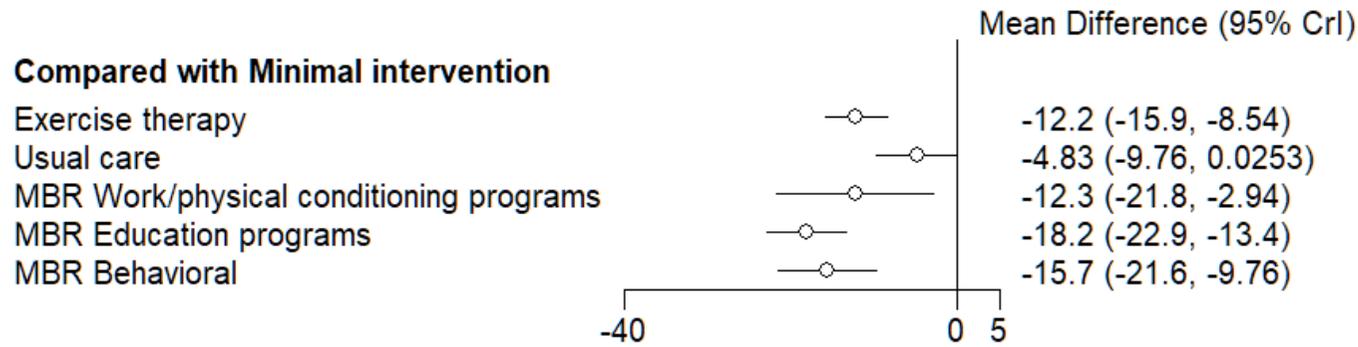


Figure S12. Forest plot of all treatment groups vs Minimal intervention (pain outcome)



Bayesian Network Meta-Analysis of DISABILITY outcome

Fig S13. Node-splitting analysis of inconsistency for disability outcome

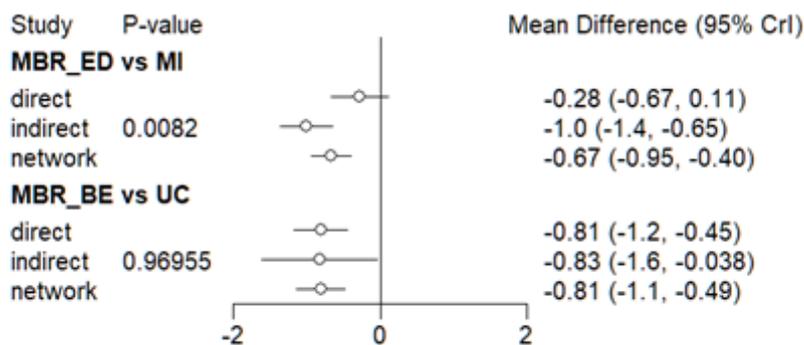
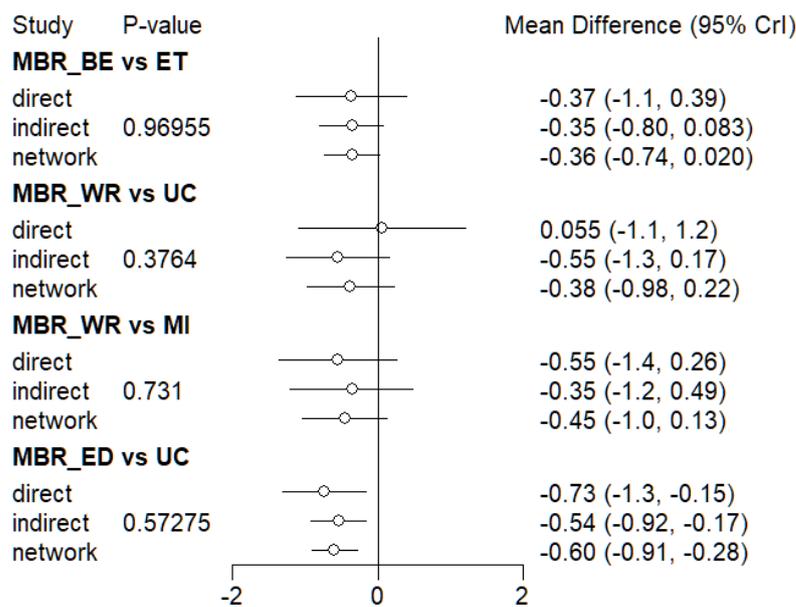
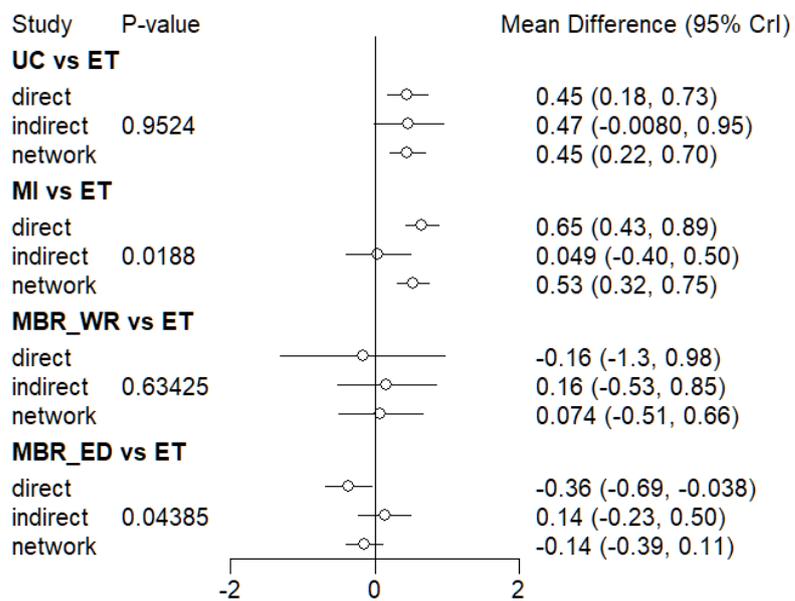


Figure S14. Probability rankings (disability outcome)

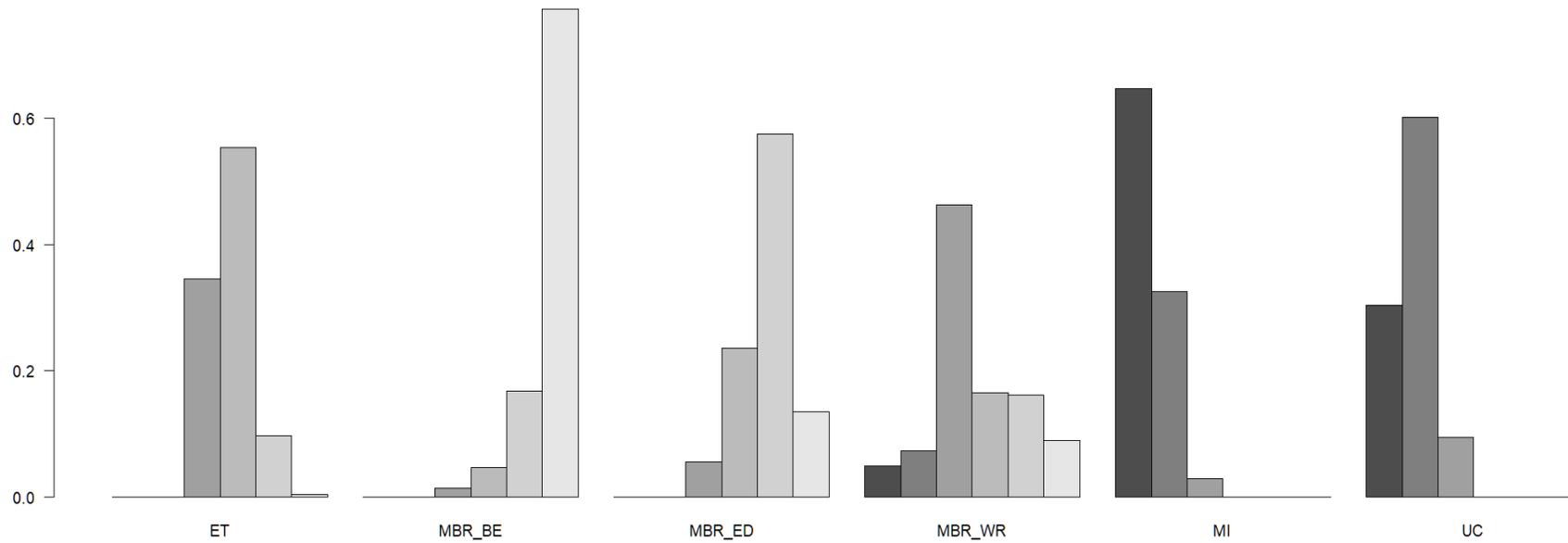


Figure S15. Forest plot of all treatment groups vs Minimal intervention (disability outcome)

