

SUPPLEMENTAL MATERIALS

Search Strategy

Ovid

Database(s): **Ovid MEDLINE(R) 1946 to Present and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) Daily, EBM Reviews - Cochrane Central Register of Controlled Trials** January 2020, **EBM Reviews - Cochrane Database of Systematic Reviews** 2005 to February 27, 2021, **Embase** 1974 to 2021 February 28

Search Strategy:

#	Searches
1	exp Ultrasonography/
2	(ultrasoun* or ultrason* or sonograph* or sonoanatom*).mp.
3	1 or 2
4	exp Nerve Block/
5	(block or anesth* or anaesth*).mp.
6	"Anesthetics, Local"/
7	or/4-6
8	exp Back Pain/
9	3 and 7 and 8
10	exp Cervical Vertebrae/dg, ir
11	exp Lumbar Vertebrae/dg, ir
12	exp Thoracic Vertebrae/dg, ir
13	("medial branch" or facet* or zygapophysial or "dorsal ram*" or (low* adj back)).mp.
14	((cervical or neck or lumbar or lumbosacr* or thoracic) adj1 (joint* or vertebra* or vertebra* or spine or spinal)).ti.
15	((c1 or c2 or c3 or c4 or c5 or c6 or c7) adj1 (joint* or vertebra* or vertebra* or spine or spinal)).mp.
16	(thoracic adj1 (joint* or vertebra* or vertebra* or spine or spinal)).mp.
17	((t1 or t2 or t3 or t4 or t5 or t6 or t7 or t8 or t9 or t10 or t11 or t12) adj1 (joint* or vertebra* or vertebra* or spine or spinal)).mp.
18	((lumbar or lumbosacral or back) adj1 (joint* or vertebra* or vertebra* or spine or spinal)).mp.
19	((l1 or l2 or l3 or l4 or l5) adj1 (joint* or vertebra* or vertebra* or spine or spinal)).mp.
20	or/10-19

21	"pain management"/
22	pain/
23	pain.mp.
24	or/21-23
25	3 and 7 and 20 and 24
26	((ultrasoun* or ultrason* or sonograph* or sonoanatom* or image*) adj3 (interventional or needle* or visuali* or visibility or injection* or guid* or technique* or procedure*) adj7 (MBB or "medial branch" or block) adj7 (facet* or joint* or vertebra* or vertebrae* or spine or spinal or zygapophysial or "dorsal ram*" or (low* adj back))).mp.
27	9 or 25 or 26
28	limit 27 to english language [Limit not valid in CDSR; records were retained]
29	limit 28 to no language specified [Limit not valid in CDSR; records were retained]
30	28 or 29
31	30 not ((exp animals/ or exp nonhuman/) not exp humans/)
32	remove duplicates from 31

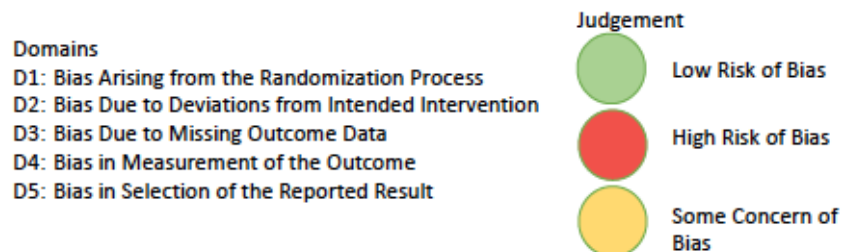
SCOPUS

1	TITLE ((ultrasoun* OR ultrason* OR sonograph* OR sonoanatom*))
2	TITLE (block)
3	TITLE-ABS-KEY (("medial branch" OR facet* OR zygapophysial OR "dorsal ram*" OR (low* W/ back)))
4	TITLE-ABS-KEY (((cervical OR neck OR lumbar OR lumbosacr* OR thoracic) W/1 (joint* OR vertebra* OR vertebrae* OR spine OR spinal)))
5	TITLE (((c1 OR c2 OR c3 OR c4 OR c5 OR c6 OR c7) W/1 (joint* OR vertebra* OR vertebrae* OR spine OR spinal)))
6	TITLE-ABS-KEY ((thoracic W/1 (joint* OR vertebra* OR vertebrae* OR spine OR spinal)))
7	TITLE (((t1 OR t2 OR t3 OR t4 OR t5 OR t6 OR t7 OR t8 OR t9 OR t10 OR t11 OR t12) W/1 (joint* OR vertebra* OR vertebrae* OR spine OR spinal)))
8	TITLE-ABS-KEY (((lumbar OR lumbosacral OR back) W/1 (joint* OR vertebra* OR vertebrae* OR spine OR spinal)))
9	TITLE-ABS-KEY (((l1 OR l2 OR l3 OR l4 OR l5) W/1 (joint* OR vertebra* OR vertebrae* OR spine OR spinal)))

1 0	3 or 4 or 5 or 6 or 7 or 8 or 9
1 1	TITLE (pain)
1 2	1 and 2 and 10 and 11
1 3	TITLE ((ultrasoun* OR ultrason* OR sonograph* OR sonoanatom* OR image*) AND (interventional OR needle* OR visuali* OR visibility OR injection* OR guid* OR technique* OR procedure*) AND (mbb OR "medial branch" OR block) AND (facet* OR joint* OR vertebra* OR vertaebra* OR spine OR spinal OR zygapophysial OR "dorsal ram*" OR (low* W/ back)))
1 4	12 or 13
1 5	INDEX(embase) OR INDEX(medline) OR PMID(0* OR 1* OR 2* OR 3* OR 4* OR 5* OR 6* OR 7* OR 8* OR 9*)
1 6	14 not 15
1 7	DOCTYPE(ed) OR DOCTYPE(bk) OR DOCTYPE(er) OR DOCTYPE(no) OR DOCTYPE(sh) OR DOCTYPE(ch)
1 8	16 not 17
1 9	LANGUAGE(english)
2 0	18 and 19

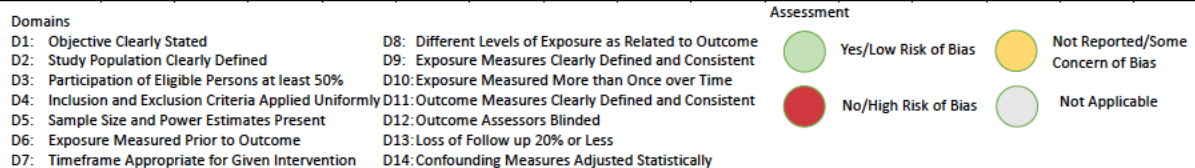
Quality assessment of randomized controlled trials using the Cochrane Risk of Bias Tool.

	D1	D2	D3	D4	D5	Overall
Galiano et al., 2007						
Ha et al., 2010						
Karkucak et al., 2020						
Wen, 2014						
Ye et al., 2018						
Yun et al., 2012						



Quality assessment of cohort studies using the National Heart, Lung and Blood Institute tool.

	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	Overall
Batalov et al., 2013															
Erdogan et al., 2019															
Etheridge et al., 2020															
Hashemi et al., 2017															
Jung et al., 2012															
Kullmer, 1997															
Moon et al., 2013															
Rauch et al., 2009															
Shim et al., 2006															
Soni et al., 2018															



Quality assessment of case series studies using the National Heart, Lung and Blood Institute tool.

	D1	D2	D3	D4	D5	D6	D7	D8	D9
Constantinescu et al., 2017									
Greher et al., 2004									
Sadeghian and Motiei-Langroudi et al., 2018									

Domains

D1: Objective Clearly Stated
D2: Study Population Clearly Defined
D3: Cases Consecutive
D4: Subjects Comparable
D5: Intervention Clearly Defined
D6: Outcome Measures Clear, Valid, and Consistent
D7: Length of Follow-up Adequate
D8: Statistical Methods Well Described
D9: Results Well Described

Assessment

 Yes/ Low Risk of Bias
 No/High Risk of Bias
 Not Reported/Some Concern of Bias