

Search Strategies for Venepuncture (29 jan 23)

PubMed

	Query	Hits
#1 (Population)	((infant, newborn[MeSH] OR newborn*[TIAB] OR "new born"[TIAB] OR "new borns"[TIAB] OR "newly born"[TIAB] OR baby*[TIAB] OR babies*[TIAB] OR premature[TIAB] OR prematurity[TIAB] OR preterm[TIAB] OR "pre term"[TIAB] OR "low birth weight"[TIAB] OR "low birthweight"[TIAB] OR VLBW[TIAB] OR LBW[TIAB] OR infan*[TIAB] OR neonat*[TIAB]))	1,292,160
#2 (Condition)	((Blood Specimen Collection: "blood specimen collection"[MeSH Terms] OR ("blood"[All Fields] AND "specimen"[All Fields] AND "collection"[All Fields]) OR "blood specimen collection"[All Fields] Phlebotomy: "phlebotomy"[MeSH Terms] OR "phlebotomy"[All Fields] OR "phlebotomies"[All Fields] Punctures: "punctured"[All Fields] OR "punctures"[MeSH Terms] OR "punctures"[All Fields] OR "puncture"[All Fields] OR "puncturing"[All Fields])) OR (venepuncture OR venipuncture)	162,204
#3 (Population with Condition)	#1 AND #2	9,925
#4 (Pharmacological interventions)	((morphine OR diamorphine OR lidocaine OR lignocaine OR EMLA OR fentanyl OR alfentanil OR sufentanil OR remifentanil OR tramadol OR opoid* OR propofol OR ketamine OR Dexmedetomidine OR pethidine OR meperidine OR codeine OR methadone OR acetaminophen OR paracetamol OR ibuprofen))	253,637

<p>#5 (Nonpharmacological interventions)</p>	<p>("Pain/prevention and control"[Mesh] OR Sucrose[MeSH] OR sucrose[TIAB] OR Glucose[MeSH] OR glucose[TIAB] OR "Sweetening Agents"[MeSH] OR "Kangaroo- Mother Care Method"[MeSH] OR "skin to skin"[TIAB] OR (kangaroo[TIAB] AND care[TIAB]) OR "Facilitated Tucking"[MeSH] OR (facilitated[TIAB] AND tucking[TIAB]) OR swaddl*[TIAB] OR cuddl*[TIAB] OR ((non- nutritive[TIAB] OR nonnutritive[TIAB] OR finger*[TIAB]) AND suck*[TIAB]) OR "Pain Management"[MeSH] OR "Infant Care"[MeSH] OR "Sucking Behavior"[MeSH] OR Fingersucking[MeSH] OR fingersucking[TIAB] OR Pacifiers[MeSH] OR pacifier*[TIAB] OR "Breast feeding"[MeSH] OR (breast*[TIAB] AND (milk[TIAB] OR feed*[TIAB])) OR breastfeed*[TIAB] OR rocking[TIAB] OR holding[TIAB] OR "Therapeutic Touch"[MeSH] or Touch[MeSH] OR ((maternal[TIAB] OR mother*[TIAB] OR therapeutic[TIAB]) AND touch*[TIAB]) OR massag*[TIAB] OR Massage[MeSH] OR "Physical Therapy Modalities"[MeSH] OR "physical therapy"[TIAB] OR physiotherapy[TIAB] OR ((verbal[TIAB] OR toy[TIAB] OR toys[TIAB] OR audiovisual[TIAB] OR audio- video[TIAB]) AND distract*[TIAB]) OR "Videodisc Recording"[MeSH] OR music[MeSH] OR "Music Therapy"[MeSH] OR music[TIAB] OR Attention[MeSH] OR (development*[TIAB] AND care[TIAB]) OR (environment*[TIAB] AND stimul*[TIAB]) OR "Patient Positioning"[MeSH] OR positioning[TIAB] OR "Bedding and Linens"[MeSH] OR Restraint, Physical[MeSH] OR (attention[TIAB] AND (behavior*[TIAB] OR behaviour*[TIAB])) OR (modif*[TIAB] AND environment*[TIAB]) OR ((low[TIAB] OR lower*[TIAB]) AND (noise*[TIAB] OR light*[TIAB])) OR "white noise"[TIAB] OR (cluster*[TIAB] AND (care[TIAB] OR procedure*[TIAB])) OR (sooth*[TIAB] AND smell*[TIAB]) OR (familiar[TIAB] AND (odor*[TIAB] OR odour*[TIAB])) OR "Acoustic Stimulation"[MeSH] OR "acoustic stimulation"[TIAB] OR "Tape Recording"[MeSH] OR Speech[MeSH] OR (record*[TIAB] AND voice[TIAB] AND (maternal[TIAB] OR mother*[TIAB])) OR "Parent- Child Relations"[MeSH] OR "Photic Stimulation"[MeSH] OR "photic stimulation"[TIAB] OR "Acupuncture Therapy"[MeSH] OR Acupuncture[MeSH] OR acupuncture[TIAB] OR Acupressure[MeSH] OR acupressure[TIAB] OR electroacupuncture[TIAB] OR "electro acupuncture"[TIAB] OR acupoint*[TIAB] OR "Transcutaneous Electric Nerve Stimulation"[MeSH] OR "transcutaneous electrical nerve stimulation"[TIAB] OR "noninvasive electrical stimulation of acupuncture points"[TIAB] OR NESAP[TIAB] OR ((tactile[TIAB] OR vestibular[TIAB] OR gustative[TIAB] OR olfactory[TIAB] OR auditory[TIAB] OR visual[TIAB]) AND stimul*[TIAB]) OR "Multisensorial stimulation"[TIAB] OR "Sensorial saturation"[TIAB] OR Sensation[MeSH])</p>	<p>2,460,539</p>
<p>#6 (Interventions)</p>	<p>#4 OR #5</p>	<p>2,673,211</p>
<p>#7 Population + Intervention</p>	<p>#3 AND #6</p>	<p>1,227</p>
<p>#8 (Study design)</p>	<p>(randomized controlled trial [pt] OR controlled clinical trial [pt] OR randomized [tiab] OR placebo [tiab] OR drug therapy [sh] OR randomly [tiab] OR trial [tiab] OR groups [tiab]) NOT (animals [mh] NOT humans [mh])</p>	<p>4915845</p>

#9 (Population + Intervention + study design)	#7 AND #8	551
On detailed assessment there are no relevant RCT's - So RCT study design removed from the search		
#9 (Population + Intervention)	#3 AND #6	1544

No systematic review and meta analysis on this aspect

Embase

	Query	Hits
#1 (Population)	(((((newborn* OR new) AND born OR new) AND borns OR newly) AND born OR baby* OR babies OR 'premature'/exp OR premature OR 'prematurity'/exp OR prematurity OR preterm OR pre) AND term OR low) AND ('birth'/exp OR birth) AND ('weight'/exp OR weight) OR low) AND ('birthweight'/exp OR birthweight) OR 'vlbw'/exp OR vlbw OR lbw OR 'infant'/exp OR infant OR 'infants'/exp OR infants OR infantile OR 'infancy'/exp OR infancy OR neonat*.ti,ab,kw OR 'infant' OR 'prematurity'	1,586,796
#2 (Condition)	'vein puncture' OR 'vein puncture':ti,ab,kw OR 'vein puncture'/exp OR 'phlebotomy'/exp OR phlebotomy:ti,ab,kw OR 'blood sampling'/exp OR 'blood sampling':ti,ab,kw OR blood:ti,ab,kw OR 'blood'/exp OR vein:ti,ab,kw OR 'vein'/exp OR 'artery puncture':ti,ab,kw OR 'artery puncture'/exp	5,243,961
#3 (Population with Condition)	#1 AND #2	225,539

#4 (Pharmacological interventions)	'morphine':ab,ti OR 'diamorphine':ab,ti OR 'lidocaine':ab,ti OR 'lignocaine':ab,ti OR 'emla':ab,ti OR 'fentanyl':ab,ti OR 'alfentanil':ab,ti OR 'sufentanil':ab,ti OR 'tramadol':ab,ti OR 'propofol':ab,ti OR 'ketamine':ab,ti OR 'paracetamol':ab,ti OR 'acetaminophene':ab,ti OR 'ibuprofen':ab,ti OR 'pethidine':ab,ti OR 'meperidine':ab,ti OR 'codeine':ab,ti OR 'methadone':ab,ti OR 'morphine'/exp OR 'diamorphine'/exp OR 'lidocaine'/exp OR 'lignocaine'/exp OR 'emla'/exp OR 'fentanyl'/exp OR 'alfentanil'/exp OR 'sufentanil'/exp OR 'tramadol'/exp OR 'propofol'/exp OR 'ketamine'/exp OR 'paracetamol'/exp OR 'ibuprofen'/exp OR 'pethidine'/exp OR 'methadone'/exp OR 'remifentanil':ab,ti OR 'remifentanil'/exp OR opioid*:ti,ab	626,883
#5 (Nonpharmacological interventions)	analgesia OR analgesia:ti,ab,kw OR 'analgesia'/exp OR pain:ti,ab,kw OR 'pain'/exp OR sucrose:ti,ab,kw OR 'sucrose'/exp OR glucose:ti,ab,kw OR 'glucose'/exp OR 'kangaroo care':ti,ab,kw OR 'kangaroo mother care':ti,ab,kw OR 'kangaroo care'/exp OR 'skin to skin contact':ti,ab,kw OR 'skin to skin contact'/exp OR 'facilitated tucking':ti,ab,kw OR 'facilitated tucking'/exp OR swaddling:ti,ab,kw OR 'swaddling'/exp OR 'non nutritive sucking':ti,ab,kw OR 'non nutritive sucking'/exp OR pacifier:ti,ab,kw OR 'pacifier'/exp OR breastfeeding:ti,ab,kw OR 'breast milk':ti,ab,kw OR 'breastfeeding'/exp OR 'breast milk'/exp OR 'music therapy':ti,ab,kw OR 'music therapy'/exp OR massage:ti,ab,kw OR 'massage'/exp OR physiotherapy:ti,ab,kw OR 'physiotherapy'/exp OR acupuncture:ti,ab,kw OR 'acupuncture'/exp OR 'transcutaneous electrical nerve stimulation':ti,ab,kw OR 'transcutaneous electrical nerve stimulation'/exp OR odor OR 'odor'/exp OR 'white noise':ti,ab,kw OR 'auditory stimulation':ti,ab,kw OR 'auditory stimulation'/exp	3,248,677
#6 (Interventions)	#4 OR #5	3,623,182
#7 Population + Intervention	#3 AND #6	29484
#8 (Study design)	'clinical and trial' OR 'clinical) and trial' OR trial:ti,ab,kw OR randomly:ti,ab,kw OR ('clinical and trial':ti,ab,kw AND topic:ti,ab,kw) OR placebo:ti,ab,kw OR 'randomized) and controlled and trial':ti,ab,kw OR ('controlled and clinical and trial':ti,ab,kw AND topic:ti,ab,kw) OR randomized:ti,ab,kw	2,073,674
#9 (Population + Intervention + study design)	#7 AND #8	3,558

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String	Query	Hits
S1 (Population)	TI (infant or infants or infantile or infancy or newborn* or "new born" or "new borns" or "newly born" or neonat* or baby* or babies or premature or prematures or prematurity or preterm or preterms or "pre term" or premies or "low birth weight" or "low birthweight" or VLBW or LBW) OR AB (infant or infants or infantile or infancy or newborn* or "new born" or "new borns" or "newly born" or neonat* or baby* or babies or premature or prematures or prematurity or preterm or preterms or "pre term" or premies or "low birth weight" or "low birthweight" or VLBW or LBW) OR MW (infant or infants or infantile or infancy or newborn* or "new born" or "new borns" or "newly born" or neonat* or baby* or babies or premature or prematures or prematurity or preterm or preterms or "pre term" or premies or "low birth weight" or "low birthweight" or VLBW or LBW)	577,210
S2 (Condition)	TX (venepuncture OR vein OR phlebotomy OR "arterial puncture" OR "blood sampling" OR "blood specimen collection" OR " blood collection") OR TI (venepuncture OR vein OR phlebotomy OR "arterial puncture" OR "blood sampling" OR "blood specimen collection" OR " blood collection") OR AB (venepuncture OR vein OR phlebotomy OR "arterial puncture" OR "blood sampling" OR "blood specimen collection" OR " blood collection") OR MW (venepuncture OR vein OR phlebotomy OR "arterial puncture" OR "blood sampling" OR "blood specimen collection" OR " blood collection") OR MJ (venepuncture OR vein OR phlebotomy OR "arterial puncture" OR "blood sampling" OR "blood specimen collection" OR " blood collection")	119,108
S3 (Population with condition)	S1 AND S2	8904
S4 (pharmacological Intervention)	TI (pain or analgesia or analgesic or analges* or morphine OR diamorphine OR lidocaine OR lignocaine OR EMLA OR fentanyl OR alfentanil OR sufentanil OR remifentanil OR tramadol OR opioid* OR propofol OR ketamine OR Dexmedetomidine OR pethidine OR meperidine OR codeine OR methadone OR acetaminophen OR paracetamol OR ibuprofen) OR AB (pain or analgesia or analgesic or analges* OR morphine OR diamorphine OR lidocaine OR lignocaine OR EMLA OR fentanyl OR alfentanil OR sufentanil OR remifentanil OR tramadol OR opioid* OR propofol OR ketamine OR Dexmedetomidine OR pethidine OR meperidine OR codeine OR methadone OR acetaminophen OR paracetamol OR ibuprofen) OR MW (pain or analgesia or analgesic or analges* OR morphine OR diamorphine OR lidocaine OR lignocaine OR EMLA OR fentanyl OR alfentanil OR sufentanil OR remifentanil OR tramadol OR opioid* OR propofol OR ketamine OR Dexmedetomidine OR pethidine OR meperidine OR codeine OR methadone OR acetaminophen OR paracetamol OR ibuprofen)	418,767

S5 (non-pharmacological Intervention)	TI (Sucrose OR glucose OR 'kangaroo care' OR 'kangaroo care' OR 'skin to skin contact' OR 'facilitated tucking' OR swaddling OR 'non nutritive sucking' OR pacifier OR breastfeeding OR 'breast milk' OR 'music therapy' OR massage OR physiotherapy OR acupuncture OR 'transcutaneous electrical nerve stimulation' OR odour OR “white noise” OR “auditory stimulation”) OR AB (Sucrose OR glucose OR 'kangaroo care' OR 'kangaroo care' OR 'skin to skin contact' OR 'facilitated tucking' OR swaddling OR 'non nutritive sucking' OR pacifier OR breastfeeding OR 'breast milk' OR 'music therapy' OR massage OR physiotherapy OR acupuncture OR 'transcutaneous electrical nerve stimulation' OR odour OR “white noise” OR “auditory stimulation”) OR MW (Sucrose OR glucose OR 'kangaroo care' OR 'kangaroo care' OR 'skin to skin contact' OR 'facilitated tucking' OR swaddling OR 'non nutritive sucking' OR pacifier OR breastfeeding OR 'breast milk' OR 'music therapy' OR massage OR physiotherapy OR acupuncture OR 'transcutaneous electrical nerve stimulation' OR odour OR “white noise” OR “auditory stimulation”)	215,073
S6 (Intervention)	S4 OR S5	611,657
S7 (Population + Intervention)	S3 AND S6	1135
S8 (Study design)	TX randomized controlled trial OR TI randomized OR AB randomly OR PT randomized controlled trial OR AB placebo OR AB groups OR PT randomised controlled trial	1,141,599
Final	S7 AND S8	478

Expanders - Apply related words; Also search within the full text of the articles; Apply equivalent subjects

Search modes - Boolean/Phrase

Cochrane central

Search Name: Venepuncture pain

Date Run: 18/02/2023 03:21:16

Comment:

ID	Search	Hits
#1	MeSH descriptor: [Infant, Newborn] explode all trees	20204
#2	("randomized controlled trial"):ti,ab,kw (Word variations have been searched)	588483
#3	MeSH descriptor ("Randomized Controlled Trial") explode all trees	3032
#4	#2 OR #3	591328

#5 infant or infants or infantile or infancy or newborn* or "new born" or "new borns" or "newly born" or neonat* or baby* or babies or premature or prematures or prematurity or preterm or preterms or "pre term" or premies or "low birth weight" or "low birthweight" or VLBW or LBW or ELBW or NICU 103969

#6 #5OR#1 103969

#7 morphine OR diamorphine OR lidocaine OR lignocaine OR EMLA OR fentanyl OR alfentanil OR sufentanil OR remifentanil OR tramadol OR opioid* OR propofol OR ketamine OR Dexmedetomidine OR pethidine OR meperidine OR codeine OR methadone OR acetaminophen OR paracetamol OR ibuprofen 85440

#8 analgesia OR pain OR sucrose OR glucose OR kangaroo care OR kangaroo mother care OR skin to skin contact OR facilitated tucking OR swaddling OR non nutritive sucking OR pacifier OR breastfeeding OR breast milk OR music therapy OR massage OR physiotherapy OR acupuncture OR transcutaneous electrical nerve stimulation OR acupressure OR swaddle OR cuddle OR finger sucking OR rocking OR therapeutic touch OR bedding OR photic stimulation OR acoustic stimulation OR odour OR smell OR patient positioning OR multisensorial stimulation OR restraint 367446

#9 #7 OR #8 399141

#10 MeSH descriptor: [Phlebotomy] explode all trees 537

#11 #6 AND #4 AND #9 AND #10 50