**Search Strategy Report:**

Date: 5/5/2021

Database: PubMed (MEDLINE)

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| --- | --- | --- |
| Set # |  | Results |
| 1 | ("Pediatrics"[Mesh] OR pediatric[tiab] OR pediatrics[tiab] OR paediatric[tiab] OR paediatrics[tiab] OR juvenile[tiab] OR juveniles[tiab] OR "Infant"[Mesh] OR infant[tiab] OR infants[tiab] OR infantile[tiab] OR "Child"[Mesh] OR child[tiab] OR children[tiab] OR childhood[tiab] OR preadolescent[tiab] OR preadolescents[tiab] OR prepubescent[tiab] OR "Adolescent"[Mesh] OR adolescent[tiab] OR adolescents[tiab] OR youth[tiab] OR youths[tiab] OR teenager[tiab] OR teenagers[tiab] OR teenage[tiab] OR teen[tiab] OR teens[tiab]) NOT ("Adult"[Mesh] NOT ("Adolescent"[Mesh] OR "Child"[Mesh] OR "Infant"[Mesh])) | 4154085 |
| 2 | "postoperative period"[mesh] OR "Postoperative Care"[mesh] OR "postoperative complications"[mesh] OR postoperative[tiab] | 994053 |
| 3 | "Cardiac Surgical Procedures"[Mesh] OR "Cardiopulmonary Bypass"[Mesh] OR "cardiac surgery"[tiab] OR "cardiac surgeries"[tiab] OR "heart surgery"[tiab] OR "heart surgeries"[tiab] OR "cardiopulmonary bypass"[tiab] OR "cardiac surgical procedures"[tiab] OR "cardiac surgical procedure"[tiab] OR cardio surgery[tiab] | 266501 |
| 4 | (randomized controlled trial[pt] OR controlled clinical trial[pt] OR randomized[tiab] OR randomised[tiab] OR randomization[tiab] OR randomisation[tiab] OR placebo[tiab] OR drug therapy[sh] OR randomly[tiab] OR trial[tiab] OR groups[tiab] OR "Clinical trial"[pt] OR “clinical trial”[tiab] OR “clinical trials”[tiab] OR "evaluation studies"[Publication Type] OR "evaluation studies as topic"[MeSH Terms] OR "evaluation study"[tiab] OR "evaluation studies"[tiab] OR "intervention study"[tiab] OR "intervention studies"[tiab] OR "case-control studies"[MeSH Terms] OR "case-control"[tiab] OR "cohort studies"[MeSH Terms] OR cohort[tiab] OR "longitudinal studies"[MeSH Terms] OR longitudinal[tiab] OR longitudinally[tiab] OR prospective[tiab] OR prospectively[tiab] OR "retrospective studies"[MeSH Terms] OR retrospective[tiab] OR "follow up"[tiab] OR "comparative study"[Publication Type] OR "comparative study"[tiab] OR systematic[subset] OR "meta-analysis"[Publication Type] OR "meta-analysis as topic"[MeSH Terms] OR "meta-analysis"[tiab] OR "meta-analyses"[tiab])  NOT (Editorial[ptyp] OR Letter[ptyp] OR Case Reports[ptyp] OR Comment[ptyp])  NOT (animals[mh] NOT humans[mh]) | 7533621 |
| 5 | #1 AND #2 AND #3 AND #4 | 9134 |
| 6 | #5 AND English[lang] AND ("2000"[Date - Entrez] : "2020”[Date - Entrez]) | 6549 |
| 7 | #6 AND ("Vasodilator Agents"[Mesh] OR "Vasodilator Agents"[Pharmacological Action] OR vasodilator[tiab] OR vasodilators[tiab] OR vasorelaxants[tiab] OR vasorelaxant[tiab] OR "vasoactive antagonists"[tiab] OR "vasoactive antagonist"[tiab] OR Vasodilatant[tiab] OR vasodilating[tiab] OR vasodilative[tiab]) | 199 |

Database: Embase

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| Set # |  | Results |
| 1 | ([infant]/lim OR [child]/lim OR [adolescent]/lim OR pediatric:ti,ab OR pediatrics:ti,ab OR paediatric:ti,ab OR paediatrics:ti,ab OR juvenile:ti,ab OR juveniles:ti,ab OR infant:ti,ab OR infants:ti,ab OR infantile:ti,ab OR child:ti,ab OR children:ti,ab OR childhood:ti,ab OR preadolescent:ti,ab OR preadolescents:ti,ab OR prepubescent:ti,ab OR adolescent:ti,ab OR adolescents:ti,ab OR youth:ti,ab OR youths:ti,ab OR teenager:ti,ab OR teenagers:ti,ab OR teenaged:ti,ab OR teen:ti,ab OR teens:ti,ab) NOT (([young adult]/lim OR [adult]/lim OR [middle aged]/lim OR [aged]/lim OR [very elderly]/lim) NOT ([embryo]/lim OR [fetus]/lim OR [newborn]/lim OR [infant]/lim OR [child]/lim OR [adolescent]/lim)) | 4215908 |
| 2 | 'postoperative period'/exp OR 'postoperative complication'/exp OR postoperative:ti,ab | 1536903 |
| 3 | 'heart surgery'/exp OR 'cardiopulmonary bypass'/exp OR 'cardiac surgery':ti,ab OR 'cardiac surgeries':ti,ab OR 'heart surgery':ti,ab OR 'heart surgeries':ti,ab OR 'cardiopulmonary bypass':ti,ab OR 'cardiac surgical procedures':ti,ab OR 'cardiac surgical procedure':ti,ab OR cardiosurgery:ti,ab OR cardiosurgeries:ti,ab | 425690 |
| 4 | ('randomized controlled trial'/exp OR 'crossover procedure'/exp OR 'double blind procedure'/exp OR 'single blind procedure'/exp OR random\*:ab,ti OR factorial\*:ab,ti OR crossover\*:ab,ti OR (cross NEAR/1 over\*):ab,ti OR placebo\*:ab,ti OR (doubl\* NEAR/1 blind\*):ab,ti OR (singl\* NEAR/1 blind\*):ab,ti OR assign\*:ab,ti OR allocat\*:ab,ti OR volunteer\*:ab,ti OR 'clinical study'/exp OR ‘clinical trial’:ti,ab OR ‘clinical trials’:ti,ab OR 'controlled study'/exp OR 'evaluation'/exp OR ‘evaluation study’:ab,ti OR ‘evaluation studies’:ab,ti OR ‘intervention study’:ab,ti OR ‘intervention studies’:ab,ti OR ‘case control’:ab,ti OR 'cohort analysis'/exp OR cohort:ab,ti OR longitudinal\*:ab,ti OR prospective:ab,ti OR prospectively:ab,ti OR retrospective:ab,ti OR 'follow up'/exp OR ‘follow up’:ab,ti OR 'comparative effectiveness'/exp OR 'comparative study'/exp OR ‘comparative study’:ab,ti OR ‘comparative studies’:ab,ti OR 'evidence based medicine'/exp OR ‘systematic review’:ab,ti OR ‘meta-analysis’:ab,ti OR ‘meta-analyses’:ab,ti) NOT ('case report'/exp OR 'case study'/exp OR 'editorial'/exp OR 'letter'/exp OR 'note'/exp) | 15141978 |
| 5 | #1 AND #2 AND #3 AND #4 | 11948 |
| 6 | #5 AND [humans]/lim AND [english]/lim AND [1-1-2000]/sd | 8482 |
| 7 | #6 AND ([embase]/lim NOT [medline]/lim) | 1490 |
| 8 | #7 AND ('vasodilator agent'/exp OR vasodilator:ti,ab OR vasodilators:ti,ab OR vasorelaxants:ti,ab OR vasorelaxant:ti,ab OR 'vasoactive antagonists':ti,ab OR 'vasoactive antagonist':ti,ab OR vasodilatant:ti,ab OR vasodilating:ti,ab OR vasodilative:ti,ab) | 93 |