

Impact of dexmedetomidine on the incidence of delirium after orthopedic surgery: A randomized controlled trial

PLoS ONE

12, e0170757

DOI: [10.1371/journal.pone.0170757](https://doi.org/10.1371/journal.pone.0170757)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Delirium in Older Persons. JAMA - Journal of the American Medical Association, 2017, 318, 1161.	3.8	612
2	Alpha-2 adrenergic agonists for the prevention of cardiac complications among adults undergoing surgery. The Cochrane Library, 2018, 2018, CD004126.	1.5	64
3	Impact of dexmedetomidine infusion during general anaesthesia on incidence of postoperative delirium in elderly patients after major non-cardiac surgery: study protocol of a randomised, double-blinded and placebo-controlled trial. BMJ Open, 2018, 8, e019549.	0.8	7
4	Neurocognitive Function after Cardiac Surgery. Anesthesiology, 2018, 129, 829-851.	1.3	157
5	Delirium in the Cardiac Intensive Care Unit. Journal of the American Heart Association, 2018, 7, .	1.6	44
6	Dexmedetomidine prevents acute kidney injury after adult cardiac surgery: a meta-analysis of randomized controlled trials. BMC Anesthesiology, 2018, 18, 7.	0.7	66
7	Comparative Efficacy of Drugs for Preventing Acute Kidney Injury after Cardiac Surgery: A Network Meta-Analysis. American Journal of Cardiovascular Drugs, 2018, 18, 49-58.	1.0	16
8	Dexmedetomidine in prevention and treatment of postoperative and intensive care unit delirium: a systematic review and meta-analysis. Annals of Intensive Care, 2018, 8, 92.	2.2	49
9	Perioperative cognitive evaluation. Current Opinion in Anaesthesiology, 2018, 31, 756-761.	0.9	31
10	Effectiveness and harms of pharmacological interventions in the treatment of delirium in adults in intensive care units post cardiac surgery. JBI Database of Systematic Reviews and Implementation Reports, 2018, 16, 1117-1125.	1.7	4
11	Dexmedetomidine inhibits inflammatory reaction in the hippocampus of septic rats by suppressing NF- κ B pathway. PLoS ONE, 2018, 13, e0196897.	1.1	28
12	Dexmedetomidine and intravenous acetaminophen for the prevention of postoperative delirium following cardiac surgery (DEXACET trial): protocol for a prospective randomized controlled trial. Trials, 2018, 19, 326.	0.7	11
13	Does Dexmedetomidine Ameliorate Postoperative Cognitive Dysfunction? A Brief Review of the Recent Literature. Current Neurology and Neuroscience Reports, 2018, 18, 64.	2.0	43
14	State of the clinical science of perioperative brain health: report from the American Society of Anesthesiologists Brain Health Initiative Summit 2018. British Journal of Anaesthesia, 2019, 123, 464-478.	1.5	134
15	<p></p>Prevention of postoperative delirium in elderly patients planned for elective surgery: systematic review and meta-analysis</p>. Clinical Interventions in Aging, 2019, Volume 14, 1095-1117.	1.3	135
16	Pharmacological Prevention of Postoperative Delirium: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-10.	0.5	15
17	Pharmacologic Considerations Surrounding Sedation, Delirium, and Sleep in Critically Ill Adults: A Narrative Review. Journal of Pharmacy Practice, 2019, 32, 271-291.	0.5	18
18	<p></p>Effect of perioperative administration of dexmedetomidine on delirium after cardiac surgery in elderly patients: a double-blinded, multi-center, randomized study</p>. Clinical Interventions in Aging, 2019, Volume 14, 571-575.	1.3	41

#	ARTICLE	IF	CITATIONS
19	Effects of dexmedetomidine on delirium and mortality during sedation in ICU patients: a systematic review and meta-analysis protocol. <i>BMJ Open</i> , 2019, 9, e025850.	0.8	6
20	Effect of Intravenous Acetaminophen vs Placebo Combined With Propofol or Dexmedetomidine on Postoperative Delirium Among Older Patients Following Cardiac Surgery. <i>JAMA - Journal of the American Medical Association</i> , 2019, 321, 686.	3.8	199
21	The developing world of preâ€operative optimisation: a systematic review of Cochrane reviews. <i>Anaesthesia</i> , 2019, 74, 89-99.	1.8	8
22	Randomized clinical trial of intraoperative dexmedetomidine to prevent delirium in the elderly undergoing major non-cardiac surgery. <i>British Journal of Surgery</i> , 2020, 107, e123-e132.	0.1	63
23	Pain relieving effect of dexmedetomidine in patients undergoing total knee or hip arthroplasty. <i>Medicine (United States)</i> , 2020, 99, e18538.	0.4	21
24	Effect of Intraoperative Dexmedetomidine Dose on Postoperative First Night Sleep Quality in Elderly Surgery Patients: A Retrospective Study With Propensity Score-Matched Analysis. <i>Frontiers in Medicine</i> , 2020, 7, 528.	1.2	11
25	Effect of intraoperative dexmedetomidine infusion on delirium in adult patients following cardiac valve surgery: a protocol of a randomized, double-blinded, and placebo-controlled study. <i>Trials</i> , 2020, 21, 645.	0.7	2
26	Perioperative Dexmedetomidine Fails to Improve Postoperative Analgesic Consumption and Postoperative Recovery in Patients Undergoing Lateral Thoracotomy for Thoracic Esophageal Cancer: A Randomized, Double-Blind, Placebo-Controlled Trial. <i>Pain Research and Management</i> , 2020, 2020, 1-12.	0.7	16
27	Dexmedetomidine for prevention of postoperative pulmonary complications in patients after oral and maxillofacial surgery with fibular free flap reconstruction: a prospective, double-blind, randomized, placebo-controlled trial. <i>BMC Anesthesiology</i> , 2020, 20, 127.	0.7	6
28	Clinical practice in the management of postoperative delirium by Chinese anesthesiologists: a cross-sectional survey designed by the European Society of Anaesthesiology. <i>Journal of International Medical Research</i> , 2020, 48, 030006052092720.	0.4	3
29	Effect of Dexmedetomidine on Delirium in Elderly Surgical Patients: A Meta-analysis of Randomized Controlled Trials. <i>Annals of Pharmacotherapy</i> , 2021, 55, 624-636.	0.9	8
30	Intraoperative dexmedetomidine for prevention of postoperative delirium in elderly patients with mild cognitive impairment. <i>International Journal of Geriatric Psychiatry</i> , 2021, 36, 143-151.	1.3	16
31	Scheduled Prophylactic 6-Hourly IV Acetaminophen to Prevent Postoperative Delirium in Older Cardiac Surgical Patients (PANDORA): protocol for a multicentre randomised controlled trial. <i>BMJ Open</i> , 2021, 11, e044346.	0.8	2
32	The effect of periâ€operative dexmedetomidine on the incidence of postoperative delirium in cardiac and nonâ€cardiac surgical patients: a randomised, doubleâ€blind placeboâ€controlled trial. <i>Anaesthesia</i> , 2021, 76, 1342-1351.	1.8	27
33	Dexmedetomidine reduces the incidence of postoperative delirium after cardiac surgery: a meta-analysis of randomized controlled trials. <i>BMC Anesthesiology</i> , 2021, 21, 153.	0.7	13
34	Dexmedetomidine in Modern Neuroanesthesia Practice. <i>Current Anesthesiology Reports</i> , 2021, 11, 181-188.	0.9	2
35	Comparative effectiveness of pharmacological interventions to prevent postoperative delirium: a network meta-analysis. <i>Scientific Reports</i> , 2021, 11, 11922.	1.6	10
36	Simultaneous Determination of Celecoxib, Dezocine and Dexmedetomidine in Beagle Plasma Using UPLC-MS/MS Method and the Application in Pharmacokinetics. <i>Drug Design, Development and Therapy</i> , 2021, Volume 15, 2529-2541.	2.0	6

#	ARTICLE	IF	CITATIONS
37	Effects of perioperative interventions for preventing postoperative delirium. <i>Medicine (United States)</i> , 2021, 100, e26662.	0.4	5
38	The Effects of Dexmedetomidine on Perioperative Neurocognitive Outcomes After Cardiac Surgery. <i>Annals of Surgery</i> , 2022, 275, 864-871.	2.1	6
39	Related Factors and Treatment of Postoperative Delirium in Old Adult Patients: An Integrative Review. <i>Healthcare (Switzerland)</i> , 2021, 9, 1103.	1.0	8
40	Prevalence of postoperative delirium with different combinations of intraoperative general anesthetic agents in patients undergoing cardiac surgery. <i>Medicine (United States)</i> , 2021, 100, e26992.	0.4	2
41	Is Perioperative Dexmedetomidine Associated With a Reduced Risk of Perioperative Neurocognitive Disorders Following Cardiac Surgery? A Systematic Review and Meta-Analysis With Trial Sequential Analysis of Randomized Controlled Trials. <i>Frontiers in Medicine</i> , 2021, 8, 645975.	1.2	9
42	The effect of dexmedetomidine on renal function after surgery: A systematic review and meta-analysis. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2022, 47, 287-297.	0.7	18
43	The Effect of a Quality Improvement Intervention on Sleep and Delirium in Critically Ill Patients in a Surgical ICU. <i>Chest</i> , 2021, 160, 899-908.	0.4	24
44	The Influence of Different Dexmedetomidine Doses on Cognitive Function at Early Period of Patients Undergoing Laparoscopic Extensive Total Hysterectomy. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-9.	1.1	5
45	Pharmacological strategies to prevent postoperative delirium: a systematic review and network meta-analysis. <i>Anesthesia and Pain Medicine</i> , 2021, 16, 28-48.	0.5	7
46	American Society for Enhanced Recovery and Perioperative Quality Initiative Joint Consensus Statement on Postoperative Delirium Prevention. <i>Anesthesia and Analgesia</i> , 2020, 130, 1572-1590.	1.1	158
47	The use of dexmedetomidine and intravenous acetaminophen for the prevention of postoperative delirium in cardiac surgery patients over 60 years of age: a pilot study. <i>F1000Research</i> , 2017, 6, 1842.	0.8	13
48	The use of dexmedetomidine and intravenous acetaminophen for the prevention of postoperative delirium in cardiac surgery patients over 60 years of age: a pilot study. <i>F1000Research</i> , 2017, 6, 1842.	0.8	8
49	Effect of remimazolam besylate compared with propofol on the incidence of delirium after cardiac surgery: study protocol for a randomized trial. <i>Trials</i> , 2021, 22, 717.	0.7	12
50	Physiologic Responses to Anesthesia in the Elderly. , 2017, , 1-21.		1
51	Intraoperative use of clonidine and dexmedetomidine for prevention of early postoperative neurocognitive disorders after coronary artery bypass surgery. <i>Russian Journal of Anesthesiology and Reanimatology /Anesteziologiya I Reanimatologiya</i> , 2020, , 42.	0.2	2
52	Role of dexmedetomidine infusion after coronary artery bypass grafting. <i>The Cardiothoracic Surgeon</i> , 2020, 28, .	0.2	1
53	Physiologic Responses to Anesthesia in the Elderly. , 2020, , 339-359.		0
54	Efficacy and safety of dexmedetomidine for postoperative sedation in cardiac patients. <i>Kardiologiya I Serdechno-Sosudistaya Khirurgiya</i> , 2020, 13, 199.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Dexmedetomidine effect on delirium in elderly patients undergoing general anesthesia. <i>Medicine (United States)</i> , 2021, 100, e27782.	0.4	1
56	Postoperative Delirium Prevention and Novel Cognitive Therapy Interventions. <i>Current Anesthesiology Reports</i> , 2022, 12, 88.	0.9	1
58	Prophylactic dexmedetomidine use did not decrease the incidence of delirium in patients undergoing cardiac surgery: A meta-analysis. <i>Perfusion (United Kingdom)</i> , 2022, , 026765912110662.	0.5	1
59	Effect of Dexmedetomidine on Tachyarrhythmias After Cardiac Surgery: A Systematic Review and Meta-Analysis. <i>Journal of Cardiovascular Pharmacology</i> , 2022, 79, 315-324.	0.8	4
60	Renal and Cerebral Hypoxia and Inflammation During Cardiopulmonary Bypass. , 2021, 12, 2799-2834.		11
61	Society of Cardiovascular Anesthesiologists Clinical Practice Update for Management of Acute Kidney Injury Associated With Cardiac Surgery. <i>Anesthesia and Analgesia</i> , 2022, 135, 744-756.	1.1	35
62	Effect of intratracheal dexmedetomidine combined with ropivacaine on postoperative sore throat: a prospective randomised double-blinded controlled trial. <i>BMC Anesthesiology</i> , 2022, 22, 144.	0.7	3
63	Effect of Dexmedetomidine on Early Postoperative Cognitive Function in Patients Undergoing Arthroscopic Shoulder Surgery in Beach Chair Position: A Randomized Double-Blind Study. <i>Journal of Clinical Medicine</i> , 2022, 11, 2970.	1.0	5
64	Postoperative Application of Dexmedetomidine is the Optimal Strategy to Reduce the Incidence of Postoperative Delirium After Cardiac Surgery: A Network Meta-Analysis of Randomized Controlled Trials. <i>Annals of Pharmacotherapy</i> , 2023, 57, 221-231.	0.9	1
65	Effect of dexmedetomidine for prevention of acute kidney injury after cardiac surgery: an updated systematic review and meta-analysis. <i>Renal Failure</i> , 2022, 44, 1151-1160.	0.8	4
66	Strategies for postâ€“cardiac surgery acute kidney injury prevention: A network meta-analysis of randomized controlled trials. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	1
67	Cardiac surgery, ICU sedation, and delirium: is dexmedetomidine the silver bullet. <i>Current Opinion in Anaesthesiology</i> , 0, Publish Ahead of Print, .	0.9	2
68	Dexmedetomidine for adult cardiac surgery: a systematic review, metaâ€“analysis and trial sequential analysis. <i>Anaesthesia</i> , 2023, 78, 371-380.	1.8	9
69	Targeting neuroinflammation as a preventive and therapeutic approach for perioperative neurocognitive disorders. <i>Journal of Neuroinflammation</i> , 2022, 19, .	3.1	10
70	Statin Use and Delirium Risk: An Updated Systematic Review and Meta-Analysis. <i>American Journal of Therapeutics</i> , 2023, 30, e326-e335.	0.5	3
71	Delirium Prevention and Management in Frail Surgical Patients. <i>Anesthesiology Clinics</i> , 2023, 41, 175-189.	0.6	1