

## REFERENCES

- Abbott, T. E. F. *et al.* (2016) ‘Preoperative heart rate and myocardial injury after non-cardiac surgery: Results of a predefined secondary analysis of the VISION study’, *British Journal of Anaesthesia*, 117(2), pp. 172–181. doi: 10.1093/bja/aew182.
- Bin Abd Razak, H. R. and Yung, W. Y. A. (2015) ‘Postoperative Delirium in Patients Undergoing Total Joint Arthroplasty: A Systematic Review’, *Journal of Arthroplasty*. Elsevier B.V., 30(8), pp. 1414–1417. doi: 10.1016/j.arth.2015.03.012.
- Aldecoa, C. *et al.* (2017) ‘European Society of Anaesthesiology evidence-based and consensus-based guideline on postoperative delirium’, *European Journal of Anaesthesiology*, 34(4), pp. 192–214. doi: 10.1097/EJA.0000000000000594.
- Ali, S. *et al.* (2011) ‘Insight into delirium’, *Innovations in Clinical Neuroscience*, 8(10), pp. 25–34.
- Alvis, B.D.; Hughes, C. G. (2015) ‘Anesthesiol Clinics’, 33(3), pp. 447–456. doi: 10.1016/j.anclin.2015.05.003.Physiology.
- Alvis, B. D. and Hughes, C. G. (2015) ‘Physiology Considerations in Geriatric Patients’, *Anesthesiology Clinics*, 33(3), pp. 447–456. doi: 10.1016/j.anclin.2015.05.003.
- Behrends, M. *et al.* (2013) ‘Association between intraoperative blood transfusions and early postoperative delirium in older adults’, *Journal of the American Geriatrics Society*, 61(3), pp. 365–370. doi: 10.1111/jgs.12143.
- Brouquet, A. *et al.* (2010) ‘Impaired mobility, ASA status and administration of tramadol are risk factors for postoperative delirium in patients aged 75 years or more after major abdominal surgery’, *Annals of Surgery*, 251(4), pp. 759–765. doi: 10.1097/SLA.0b013e3181c1cfc9.

- Bruce, A. J. *et al.* (2007) 'The incidence of delirium associated with orthopedic surgery: A meta-analytic review', *International Psychogeriatrics*, 19(2), pp. 197–214. doi: 10.1017/S104161020600425X.
- Chalrson, M. E. *et al.* (1987) 'a New Method of Classifying Prognostic in Longitudinal Studies : Development', *Journal Of Chronic Diseases*, 40(5), pp. 373–383. Available at: <http://www.sciencedirect.com/science/article/pii/0021968187901718>.
- Chen, D. *et al.* (2017) 'Osteoarthritis: Toward a comprehensive understanding of pathological mechanism', *Bone Research*. Nature Publishing Group, 5(September 2016). doi: 10.1038/boneres.2016.44.
- Chuo, M. Y. *et al.* (2019) 'Intraoperative blood transfusion predicts postoperative delirium among older patients undergoing elective orthopedic surgery: A prospective cohort study', *International Journal of Geriatric Psychiatry*, 34(6), pp. 881–888. doi: 10.1002/gps.5086.
- Cropsey, C. *et al.* (2015) 'Cognitive Dysfunction, Delirium, and Stroke in Cardiac Surgery Patients', *Seminars in Cardiothoracic and Vascular Anesthesia*, 19(4), pp. 309–317. doi: 10.1177/1089253215570062.
- Daabiss, M. (2011) 'American society of anaesthesiologists physical status classification', *Indian Journal of Anaesthesia*, 55(2), pp. 111–115. doi: 10.4103/0019-5049.79879.
- Duong, S., Patel, T. and Chang, F. (2017) 'Dementia: What pharmacists need to know', *Canadian Pharmacists Journal*, 150(2), pp. 118–129. doi: 10.1177/1715163517690745.
- Eide, L. S. P. *et al.* (2018) 'Indwelling urinary catheters, aortic valve treatment and delirium: A prospective cohort study', *BMJ Open*, 8(11), pp. 1–8. doi:

10.1136/bmjopen-2018-021708.

El-Sharkawy, A. M. *et al.* (2014) 'The pathophysiology of fluid and electrolyte balance in the older adult surgical patient', *Clinical Nutrition*. Elsevier Ltd, 33(1), pp. 6–13. doi: 10.1016/j.clnu.2013.11.010.

Elsamadicy, A. A. *et al.* (2017) 'Depression as an independent predictor of postoperative delirium in spine deformity patients undergoing elective spine surgery', *Journal of Neurosurgery: Spine*, 27(2), pp. 209–214. doi: 10.3171/2017.4.SPINE161012.

Fadayomi, A. B. *et al.* (2018) 'A Systematic Review and Meta-Analysis Examining the Impact of Sleep Disturbance on Postoperative Delirium', *Critical care medicine*, 46(12), pp. e1204–e1212. doi: 10.1097/CCM.0000000000003400.

Feinkohl, I., Winterer, G. and Pischon, T. (2016) 'Obesity and post-operative cognitive dysfunction: a systematic review and meta-analysis', *Diabetes/Metabolism Research and Reviews*, 32(6), pp. 643–651. doi: 10.1002/dmrr.2786.

Florou, C. *et al.* (2017) 'Post-Operative Delirium in Elderly People Diagnostic and Management Issues of Post-Operative Delirium in Elderly People', in *GeNeDis 2016: Genetics and Neurodegeneration*, pp. 301–312. doi: 10.1007/978-3-319-57379-3\_27.

Fukata, S. *et al.* (2017) 'Haloperidol prophylaxis for preventing aggravation of postoperative delirium in elderly patients: a randomized, open-label prospective trial', *Surgery Today*. Springer Japan, 47(7), pp. 815–826. doi: 10.1007/s00595-016-1441-2.

Grover, S. and Avasthi, A. (2018) 'Clinical practice guidelines for management of delirium in elderly', *Indian Journal of Psychiatry*, 60(7), pp. S329–S340. doi: 10.4103/0019-5545.224473.

Guedes, L. P. C. M., Oliveira, M. L. C. de and Carvalho, G. D. A. (2018) 'Deleterious effects of prolonged bed rest on the body systems of the elderly - a review', *Revista*

*Brasileira de Geriatria e Gerontologia*, 21(4), pp. 499–506. doi: 10.1590/1981-22562018021.170167.

Hong, N. and Park, J. Y. (2018) ‘The motoric types of delirium and estimated blood loss during perioperative period in orthopedic elderly patients’, *BioMed Research International*, 2018. doi: 10.1155/2018/9812041.

Iamaroon, A. *et al.* (2020) ‘Incidence of and risk factors for postoperative delirium in older adult patients undergoing noncardiac surgery: A prospective study’, *BMC Geriatrics*. *BMC Geriatrics*, 20(1), pp. 1–8. doi: 10.1186/s12877-020-1449-8.

Ilango, S. *et al.* (2016) ‘General versus spinal anaesthesia and postoperative delirium in an orthogeriatric population’, *Australasian Journal on Ageing*, 35(1), pp. 42–47. doi: 10.1111/ajag.12212.

Irianto S, K. A. ., Oen, S. and Sukmajaya, W. P. (2018) ‘Do age and co-morbidity, among other factors, affect length of hospital stay following total knee arthroplasty’, *Malaysian Orthopaedic Journal*, 12(2), pp. 25–30. doi: 10.5704/MOJ.1807.005.

Janssen, T. L. *et al.* (2019) ‘Prevention of postoperative delirium in elderly patients planned for elective surgery: Systematic review and meta-analysis’, *Clinical Interventions in Aging*, 14, pp. 1095–1117. doi: 10.2147/CIA.S201323.

Johnson, R. and Monkhouse, S. (2009) ‘Postoperative fluid and electrolyte balance: alarming audit results’, *Journal of Perioperative Practice*, 19(9), pp. 291–294. doi: 10.1177/175045890901900904.

Kassie, G. M. *et al.* (2017) ‘Preoperative medication use and postoperative delirium: A systematic review’, *BMC Geriatrics*. *BMC Geriatrics*, 17(1), pp. 1–10. doi: 10.1186/s12877-017-0695-x.

Kirkpatrick, D. *et al.* (2016) ‘Paradoxical Reaction to Alprazolam in an Elderly Woman with a History of Anxiety, Mood Disorders, and Hypothyroidism’, *Case Reports in*

*Psychiatry*, 2016, pp. 1–5. doi: 10.1155/2016/6748947.

Kukreja, D., Günther, U. and Popp, J. (2015) ‘Delirium in the elderly: Current problems with increasing geriatric age’, *Indian Journal of Medical Research*, 142(6), pp. 655–662. doi: 10.4103/0971-5916.174546.

Kunz, J. V. *et al.* (2020) ‘Postoperative anaemia might be a risk factor for postoperative delirium and prolonged hospital stay: A secondary analysis of a prospective cohort study’, *PLoS ONE*, 15(2), pp. 1–12. doi: 10.1371/journal.pone.0229325.

Leung, J. M. *et al.* (2013) ‘Does preoperative risk for delirium moderate the effects of postoperative pain and opiate use on postoperative delirium?’, *American Journal of Geriatric Psychiatry*. Elsevier Inc, 21(10), pp. 946–956. doi: 10.1016/j.jagp.2013.01.069.

Liamis, G. *et al.* (2013) ‘Electrolyte disorders in community subjects: Prevalence and risk factors’, *American Journal of Medicine*. Elsevier Inc., 126(3), pp. 256–263. doi: 10.1016/j.amjmed.2012.06.037.

Lorenzl, S., Füsgen, I. and Noachtar, S. (2012) ‘Verwirrheitszustände im Alter: Diagnostik und Therapie’, *Deutsches Arzteblatt International*, 109(21), pp. 391–400. doi: 10.3238/arztebl.2012.0391.

Lu, Y. *et al.* (2019) ‘Promoting sleep and circadian health may prevent postoperative delirium: A systematic review and meta-analysis of randomized clinical trials’, *Sleep Medicine Reviews*. Elsevier Ltd, 48, p. 101207. doi: 10.1016/j.smr.2019.08.001.

Maldonado, J. R. (2018) ‘Delirium pathophysiology: An updated hypothesis of the etiology of acute brain failure’, *International Journal of Geriatric Psychiatry*, 33(11), pp. 1428–1457. doi: 10.1002/gps.4823.

McLachlan, A. J. *et al.* (2011) ‘Clinical pharmacology of analgesic medicines in older people: Impact of frailty and cognitive impairment’, *British Journal of Clinical*

*Pharmacology*, 71(3), pp. 351–364. doi: 10.1111/j.1365-2125.2010.03847.x.

Memtsoudis, S. *et al.* (2019) ‘Risk factors for postoperative delirium in patients undergoing lower extremity joint arthroplasty: A retrospective population-based cohort study’, *Regional Anesthesia and Pain Medicine*, 44(10), pp. 934–943. doi: 10.1136/rapm-2019-100700.

Menzies, I. B. *et al.* (2012) ‘The Impact of Comorbidity on Perioperative Outcomes of Hip Fractures in a Geriatric Fracture Model’, *Geriatric Orthopaedic Surgery & Rehabilitation*, 3(3), pp. 129–134. doi: 10.1177/2151458512463392.

Myint, P. K. *et al.* (2018) ‘Is anemia associated with cognitive impairment and delirium among older acute surgical patients?’, *Geriatrics and Gerontology International*, 18(7), pp. 1025–1030. doi: 10.1111/ggi.13293.

Nazemi, A. K. *et al.* (2017) ‘Prevention and Management of Postoperative Delirium in Elderly Patients Following Elective Spinal Surgery’, *Clinical Spine Surgery*, 30(3), pp. 112–119. doi: 10.1097/BSD.0000000000000467.

Oe, S. *et al.* (2019) ‘Preoperative Age and Prognostic Nutritional Index Are Useful Factors for Evaluating Postoperative Delirium among Patients with Adult Spinal Deformity’, *Spine*, 44(7), pp. 472–478. doi: 10.1097/BRS.0000000000002872.

Oh, E. S. *et al.* (2015) ‘Preoperative risk factors for postoperative delirium following hip fracture repair: A systematic review’, *International Journal of Geriatric Psychiatry*, 30(9), pp. 900–910. doi: 10.1002/gps.4233.

Oh, E. S. *et al.* (2016) ‘Sex Differences in Hip Fracture Surgery: Preoperative Risk Factors for Delirium and Postoperative Outcomes’, *Journal of the American Geriatrics Society*, 64(8), pp. 1616–1621. doi: 10.1111/jgs.14243.

Oh, S. T. and Park, J. Y. (2018) ‘Postoperative delirium’, *Korean Journal of Anesthesiology*, 72(1), pp. 4–12. doi: 10.4097/kja.d.18.00073.1.

- Patel, V. *et al.* (2018) 'Effect of regional versus general anaesthesia on postoperative delirium in elderly patients undergoing surgery for hip fracture: A systematic review', *BMJ Open*, 8(12). doi: 10.1136/bmjopen-2017-020757.
- Pendlebury, S. T. *et al.* (2015) 'Observational, longitudinal study of delirium in consecutive unselected acute medical admissions: Age-specific rates and associated factors, mortality and re-admission', *BMJ Open*, 5(11). doi: 10.1136/bmjopen-2015-007808.
- Pinho, C. *et al.* (2015) 'Postoperative delirium: age and low functional reserve as independent risk factors', *Journal of Clinical Anesthesia*. *Journal of Clinical Anesthesia*, 33, pp. 507–513. doi: 10.1016/j.jclinane.2015.09.002.
- Purnamasari, D. (2018) 'The Emergence of Non-communicable Disease in Indonesia', *Acta medica Indonesiana*, 50(4), pp. 273–274.
- Raats, J. W. *et al.* (2015) 'Risk factors and outcomes for postoperative delirium after major surgery in elderly patients', *PLoS ONE*, 10(8), pp. 1–12. doi: 10.1371/journal.pone.0136071.
- Rade, M. C. *et al.* (2011) 'Postoperative Delirium in Elderly Patients After Elective Hip or Knee Arthroplasty Performed Under Regional Anesthesia', *HSS Journal*, 7(2), pp. 151–156. doi: 10.1007/s11420-011-9195-2.
- Radtke, F. M. *et al.* (2013) 'Monitoring depth of anaesthesia in a randomized trial decreases the rate of postoperative delirium but not postoperative cognitive dysfunction', *British Journal of Anaesthesia*, 110(SUPPL.1), pp. 98–105. doi: 10.1093/bja/aet055.
- Ravi, B. *et al.* (2019) 'Association of Duration of Surgery With Postoperative Delirium Among Patients Receiving Hip Fracture Repair', *JAMA network open*, 2(2), p. e190111. doi: 10.1001/jamanetworkopen.2019.0111.

- Reddy, S. V., Ikkal, J. N. and Srinivasamurthy, A. (2017) 'Postoperative delirium in elderly citizens and current practice', *Journal of Anaesthesiology Clinical Pharmacology*, 33(3), pp. 291–299. doi: 10.4103/joacp.JOACP\_180\_16.
- Rezende, M. U. de, Campos, G. C. de and Pailo, A. F. (2013) 'Conceitos atuais em osteoartrite', *Acta Ortopédica Brasileira*, 21(2), pp. 120–122. doi: 10.1590/S1413-78522013000200010.
- De Santana Bosmak, F. *et al.* (2017) 'Incidence of delirium in postoperative patients treated with total knee and hip arthroplasty', *Revista da Associação Médica Brasileira*, 63(3), pp. 248–251. doi: 10.1590/1806-9282.63.03.248.
- Schenning, K. J. and Deiner, S. G. (2015) 'Postoperative Delirium in the Geriatric Patient', *Anesthesiology Clinics*, 33(3), pp. 505–516. doi: 10.1016/j.anclin.2015.05.007.
- Schlanger, L. E., Bailey, J. L. and Sands, J. M. (2010) 'Electrolytes in the Aging', *Advances in Chronic Kidney Disease*, 17(4), pp. 308–319. doi: 10.1053/j.ackd.2010.03.008.
- Schrijver, E. J. M. *et al.* (2016) 'Efficacy and safety of haloperidol for in-hospital delirium prevention and treatment: A systematic review of current evidence', *European Journal of Internal Medicine*. Elsevier B.V., 27, pp. 14–23. doi: 10.1016/j.ejim.2015.10.012.
- Schwartz, G. L. and Sheps, S. G. (1999) 'A review of the Sixth Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure', *Current Opinion in Cardiology*, 14(2), pp. 161–168. doi: 10.1097/00001573-199903000-00014.
- Singh, S. and Bajorek, B. (2014) 'Defining “elderly” in clinical practice guidelines for pharmacotherapy', *Pharmacy Practice (Internet)*, 12(4), pp. 0–0. doi: 10.4321/s1886-



36552014000400007.

Sozen, T., Ozisik, L. and Calik Basaran, N. (2017) 'An overview and management of osteoporosis', *European Journal of Rheumatology*, 4(1), pp. 46–56. doi: 10.5152/eurjrheum.2016.048.

Stacie Deiner, B. W. and R. P. D. (2014) 'Patterns of surgical care and complication in the elderly', *JAM Geriatric Soc*, 62(5), pp. 829–835. doi: 10.1111/jgs.12794.Patterns.

Tapuwa, D. *et al.* (2015) 'Diagnosis and Management of Acute Ischemic Stroke: Speed is Critical', *Cmaj*, 187(12), pp. 887–93.

Telias, I. and Wilcox, M. E. (2019) 'Sleep and Circadian Rhythm in Critical Illness', *Critical Care. Critical Care*, 23(1), pp. 2–5. doi: 10.1186/s13054-019-2366-0.

Vasilevskis, E. E. *et al.* (2012) 'Epidemiology and risk factors for delirium across hospital settings', *Best Practice & Research Clinical Anaesthesiology*, 26(3), pp. 277–287. doi: 10.1016/j.bpa.2012.07.003.

Vaurio, L. E. *et al.* (2006) 'Postoperative delirium: The importance of pain and pain management', *Anesthesia and Analgesia*, 102(4), pp. 1267–1273. doi: 10.1213/01.ane.0000199156.59226.af.

Vijayakumar, B., Elango, P. and Ganessan, R. (2014) 'Post-operative delirium in elderly patients', *Indian Journal of Anaesthesia*, 58(3), pp. 251–256. doi: 10.4103/0019-5049.135026.

Wang, C. guang *et al.* (2018) 'Incidence and risk factors of postoperative delirium in the elderly patients with hip fracture', *Journal of Orthopaedic Surgery and Research. Journal of Orthopaedic Surgery and Research*, 13(1), pp. 1–7. doi: 10.1186/s13018-018-0897-8.

Wang, L. H. *et al.* (2016) 'Electrolyte disorders and aging: Risk factors for delirium in patients undergoing orthopedic surgeries', *BMC Psychiatry. BMC Psychiatry*, 16(1),

pp. 1–7. doi: 10.1186/s12888-016-1130-0.

Wang, Y. and Shen, X. (2018) ‘Postoperative delirium in the elderly: the potential neuropathogenesis’, *Aging Clinical and Experimental Research*. Springer International Publishing, 0(0), p. 0. doi: 10.1007/s40520-018-1008-8.

Whitlock, E. L., Vannucci, A. and Avidan, M. S. (2011) ‘Postoperative delirium.’, *Minerva anesthesiologica*, 77(4), pp. 448–56. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/21483389>.

Whitten, B. H. (2010) ‘Balancing act.’, *Minnesota medicine*, 93(1), p. 18.

Zhang, D. F. *et al.* (2018) ‘Preoperative severe hypoalbuminemia is associated with an increased risk of postoperative delirium in elderly patients: Results of a secondary analysis’, *Journal of Critical Care*. Elsevier Inc, 44, pp. 45–50. doi: 10.1016/j.jcrc.2017.09.182.

Zuo, D. *et al.* (2015) ‘A comparison of general versus regional anesthesia for hip fracture surgery: A meta-analysis’, *International Journal of Clinical and Experimental Medicine*, 8(11), pp. 20295–20301.