

DAFTAR PUSTAKA

1. Shnaider I, Chung F. Outcomes in day surgery. *Curr Opin Anaesthesiol*. 2006;19:622–629. [[PubMed](#)] [[Google Scholar](#)]
2. White PF, Eng M. Fast-track anesthetic techniques for ambulatory surgery. *Curr Opin Anaesthesiol*. 2007;20:545–557. [[PubMed](#)] [[Google Scholar](#)]
3. Cullen KA, Hall MJ, Golosinskiy A. Ambulatory surgery in the United States, 2006. *Natl Health Stat Report*. 2009;(11): 1–25. Available from https://www.researchgate.net/profile/Karen_Cullen3/publication/24209006_Ambulatory_Surgery_in_the_United_States_2006/links/0046353b42978e1768000000/Ambulatory-Surgery-in-the-United-States-2006.pdf. [[PubMed](#)] [[Google Scholar](#)]
4. Moon TS, Joshi GP. Are morbidly obese patients suitable for ambulatory surgery? *Curr Opin Anaesthesiol*. 2016;29:141–145. [[PubMed](#)] [[Google Scholar](#)]
5. Hinkelbein J, Hohn A, Genzwürker H. Airway management for anaesthesia in the ambulatory setting. *Curr Opin Anaesthesiol*. 2015;28:642–647. [[PubMed](#)] [[Google Scholar](#)]
6. Smith I, Jackson I. Beta-blockers, calcium channel blockers, angiotensin converting enzyme inhibitors and angiotensin receptor blockers: should they be stopped or not before ambulatory anaesthesia? *Curr Opin Anaesthesiol*. 2010;23:687–690. [[PubMed](#)] [[Google Scholar](#)]



T, Wang CY, Seet E, Tam S, Lai HY, Walker S, et al. Postoperative complications in unrecognised Obstructive Sleep apnoea (POSA) study

protocol: an observational cohort study in moderate-to-high risk patients undergoing non-cardiac surgery. *BMJ Open*. 2014;4:e004097. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]

8. Joshi GP, Ankichetty SP, Gan TJ, Chung F. Society for Ambulatory Anesthesia consensus statement on preoperative selection of adult patients with obstructive sleep apnea scheduled for ambulatory surgery. *Anesth Analg*. 2012;115:1060–1068. [[PubMed](#)] [[Google Scholar](#)]
9. Chung F, Yegneswaran B, Liao P, Chung SA, Vairavanathan S, Islam S, et al. STOP questionnaire: a tool to screen patients for obstructive sleep
10. Gan TJ, Meyer TA, Apfel CC, Chung F, Davis PJ, Habib AS, et al. Society for Ambulatory Anesthesia guidelines for the management of postoperative nausea and vomiting. *Anesth Analg*. 2007;105:1615–1628. [[PubMed](#)] [[Google Scholar](#)]
11. Servin F. Low-dose aspirin and clopidogrel: How to act in patients scheduled for day surgery. *Curr Opin Anaesthesiol*. 2007;20:531–4. [[PubMed](#)] [[Google Scholar](#)]
12. Badrinath S, Avramov MN, Shadrack M, Witt TR, Ivankovich AD. The use of a ketamine-propofol combination during monitored anesthesia care. *Anesth Analg*. 2000;90:858–862. [[PubMed](#)] [[Google Scholar](#)]
13. Awad IT, Chung F. Factors affecting recovery and discharge following ambulatory surgery. *Can J Anaesth*. 2006;53:858–872. [[PubMed](#)] [[Google Scholar](#)]
14. apnea. *Anesthesiology*. 2008;108:812–821. [[PubMed](#)] [[Google Scholar](#)]
15. Apfelbaum JL, Walawander CA, Grasela TH, Wise P, McLeskey C, Roizen MF, et

uating intensive postoperative care in same-day surgery patients using



short-acting anesthetics. *Anesthesiology*. 2002;97:66–74. [[PubMed](#)] [[Google Scholar](#)]

16. Kehlet H. Postoperative opioid sparing to hasten recovery: what are the issues? *Anesthesiology*. 2005;102:1083–1085. [[PubMed](#)] [[Google Scholar](#)]

17. Joshi GP, Chung F, Vann MA, Ahmad S, Gan TJ, Goulson DT, et al. Society for Ambulatory Anesthesia Consensus Statement on Perioperative Blood Glucose Management in Diabetic Patients Undergoing Ambulatory Surgery. *Anesth Analg*. 2010 [In Press] [[PubMed](#)] [[Google Scholar](#)]

18. Mattila K, Lahtela M, Hynynen M. Health-related quality of life following ambulatory surgery procedures: assessment by RAND-36. *BMC Anesthesiol*. 2013;5(12):30.

19. Cullen KA, Hall MJ, Golosinskiy A. Ambulatory surgery in the United States 2006. *Natl Health Stat Report*. 2009;11:1–25.

20. Metzner J, Domino KB. Risks of anesthesia or sedation outside the operating room: the role of the anesthesia care provider. *Curr Opin Anaesthesiol*. 2010;23(4):523–31.

21. Rex DK, Heuss LT, Walker JA, Qi R. Trained registered nurses/endoscopy teams can administer propofol safely for endoscopy. *Gastroenterology*. 2005;129:1384–91. [[PubMed](#)] [[Google Scholar](#)]

22. Goudra BG, Singh PM, Penugonda LC, Speck RM, Sinha AC. Significantly reduced hypoxemic events in morbidly obese patients undergoing gastrointestinal

y: Predictors and practice effect. *J Anaesthesiol Clin*
ol. 2014;30:71–7. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]



23. Goudra BG, Singh PM, Sinha AC. Outpatient endoscopic retrograde cholangiopancreatography: Safety and efficacy of anesthetic management with a natural airway in 653 consecutive procedures. *Saudi J Anaesth.* 2013;7:259–65. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
- Goudra BG, Singh PM. Remimazolam: The future of its sedative potential. *Saudi J Anaesth.* 2014;8:388–91. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
24. Avidan MS, Zhang L, Burnside BA, Finkel KJ, Searleman AC, Selvidge JA, et al. Anesthesia awareness and the bispectral index. *N Engl J Med.* 2008;358:1097–1108. [[PubMed](#)] [[Google Scholar](#)]
25. White PF, Ma H, Tang J, Wender RH, Sloninsky A, Kariger R. Does the use of electroencephalographic bispectral index or auditory evoked potential index monitoring facilitate recovery after desflurane anesthesia in the ambulatory setting? *Anesthesiology.* 2004;100:811–817. [[PubMed](#)] [[Google Scholar](#)]
26. Chung F, Chan VW, Ong D. A post-anesthetic discharge scoring system for home readiness after ambulatory surgery. *J Clin Anesth.* 1995;7:500–506. [[PubMed](#)] [[Google Scholar](#)]
27. Loop T, Priebe HJ: Prospective, randomized cost analysis of anesthesia with remifentanyl combined with propofol, desflurane or sevoflurane for otorhinolaryngeal surgery. *Acta Anaesthesiol Scand* 2002; 46:1251–60
28. Hill RP, Lubarsky DA, Phillips-Bute B, Fortney JT, Creed MR, Glass PS, Gan TJ: Cost-effectiveness of prophylactic antiemetic therapy with ondansetron, droperidol,

o. *Anesthesiology* 2000; 92:958–67



29. Pueyo FJ, Lopez-Olaondo L, Sanchez-Ledesma MJ, Ortega A, Carrascosa F: Cost-effectiveness of three combinations of antiemetics in the prevention of postoperative nausea and vomiting. *Br J Anaesth* 2003; 91:589–92
30. Hara R, Hirota K, Sato M, Tanabe H, Yazawa T, Habara T, et al. The impact of remifentanyl on incidence and severity of postoperative nausea and vomiting in a university hospital-based ambulatory surgery center: a retrospective observation study. *Korean J Anesthesiol.* 2013;65:142–146. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
31. Minto CF, Schnider TW, Shafer SL. Pharmacokinetics and pharmacodynamics of remifentanyl. II. Model application. *Anesthesiology.* 1997;86:24–33. [[PubMed](#)] [[Google Scholar](#)]
32. Jenkins K, Grady D, Wong J, Correa R, Armanious S, Chung F: Post-operative recovery: Day surgery patients' preferences. *Br J Anaesth* 2001; 86:272–4
33. White PF. The changing role of non-opioid analgesic techniques in the management of postoperative pain. *Anesth Analg.* 2005;101(5 Suppl):S5–22. [[PubMed](#)] [[Google Scholar](#)]
34. Eberhart LH, Morin AM, Wulf H, Geldner G: Patient preferences for immediate postoperative recovery. *Br J Anaesth* 2002; 89:760–1
35. Gupta A, Wu CL, Elkassabany N, Krug CE, Parker SD, Fleisher LA: Does the routine prophylactic use of antiemetics affect the incidence of postdischarge nausea and vomiting following ambulatory surgery? A systematic review of randomized controlled trials. *Anesthesiology* 2003; 99:488–95



36. Shirakami G, Teratani Y, Namba T, Hirakata H, Tazuke-Nishimura M, Fukuda K. Delayed discharge and acceptability of ambulatory surgery in adult outpatients receiving general anesthesia. *J Anesth.* 2005;19:93–101. [[PubMed](#)] [[Google Scholar](#)]
37. Shirakami G, Teratani Y, Segawa H, Matsuura S, Shichino T, Fukuda K. Omission of fentanyl during sevoflurane anesthesia decreases the incidences of postoperative nausea and vomiting and accelerates postanesthesia recovery in major breast cancer surgery. *J Anesth.* 2006;20:188–195. [[PubMed](#)] [[Google Scholar](#)]
38. Koivuranta M, Laara E, Snare L, Alahuhta S. A survey of postoperative nausea and vomiting. *Anaesthesia.* 1997;52:443–449. [[PubMed](#)] [[Google Scholar](#)]
39. Gan TJ, Meyer T, Apfel CC, Chung F, Davis PJ, Eubanks S, et al. Consensus guidelines for managing postoperative nausea and vomiting. *Anesth Analg.* 2003;97:62–71. [[PubMed](#)] [[Google Scholar](#)]
40. Wilhelm W, Kreuer S. The place for short-acting opioids: special emphasis on remifentanil. *Crit Care.* 2008;12(3):S5.
41. Glass PS, Hardman D, Kamiyama Y, Quill TJ, Marton G, Donn KH, et al. Preliminary pharmacokinetics and pharmacodynamics of an ultra-short-acting opioid: remifentanil (GI87084B) *Anesth Analg.* 1993;77:1031–40
42. Thobari JA, Haposan JH, Chandra LA, Hidayati N, Dewi RK, Purnamasari RW, et al. Safety profile of remifentanil: A post-marketing study in Indonesia. *J Appl Pharm Sci.* 2022;12(5):165–70.



43. Minto CF, Schnider TW, Shafer SL. Pharmacokinetics and pharmacodynamics of remifentanil. II. Model application. *Anesthesiology*. 1997;86:24–33. [[PubMed](#)] [[Google Scholar](#)]
44. Kapila A, Glass PS, Jacobs JR, Muir KT, Hermann DJ, Shiraishi M, et al. Measured context-sensitive half-times of remifentanil and alfentanil. *Anesthesiology*. 1995;83:968–975. [[PubMed](#)] [[Google Scholar](#)]
45. Rama-Maceiras P, Ferreira TA, Molins N, Sanduende Y, Bautista AP, Rey T. Less postoperative nausea and vomiting after propofol + remifentanil versus propofol + fentanyl anaesthesia during plastic surgery. *Acta Anaesthesiol Scand*. 2005;49:305–311. [[PubMed](#)] [[Google Scholar](#)]
46. Ozkose Z, Yalcin Cok O, Tuncer B, Tufekcioglu S, Yardim S: Comparison of hemodynamics, recovery profile, and early postoperative pain control and costs of remifentanil versus alfentanil-based total intravenous anesthesia (TIVA). *J Clin Anesth* 2002; 14:161–8
47. Apfel CC, Korttila K, Abdalla M, Kerger H, Turan A, Vedder I, et al. A factorial trial of six interventions for the prevention of postoperative nausea and vomiting. *N Engl J Med*. 2004;350:2441–2451. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
48. Komatsu R, Turan AM, Orhan-Sungur M, McGuire J, Radke OC, Apfel CC. Remifentanil for general anaesthesia: a systematic review. *Anaesthesia*. 2007;62:1266–1280. [[PubMed](#)] [[Google Scholar](#)]
49. Sato M, Shirakami G, Tazuke-Nishimura M, Matsuura S, Tanimoto K, Fukuda K.

single-dose dexmedetomidine on emergence agitation and recovery



profiles after sevoflurane anesthesia in pediatric ambulatory surgery. *J Anesth.* 2010;24:675–682. [PubMed] [Google Scholar]

50. Lobo EP, Pellegrini F, Pusceddu E. Anesthesia Complications in Head and Neck Surgery [Internet]. Second Edi. Complications in Head and Neck Surgery with CD Image Bank. Elsevier Inc.; 2009. 3–27 hal. Tersedia pada: <http://dx.doi.org/10.1016/B978-1-4160-4220-4.50005-5>
51. Muellejans B, López A, Cross MH, Bonome C, Morrison L, Kirkham AJT. Remifentanil versus fentanyl for analgesia based sedation to provide patient comfort in the intensive care unit: a randomized, double-blind controlled trial [ISRCTN43755713]. *Crit Care.* 2004;8(1):1–11.
52. Norman G. Bowery. Fentanyl. xPharm: The Comprehensive Pharmacology Reference; 2007. 1–5 hal.
53. Min J, Kim YH, Chae YK, Lee WK, Choi S, Chai HS, et al. A Comparison of Remifentanil versus Fentanyl as an Adjuvant to Propofol Anesthesia for Ureteroscopic Lithotripsy. *Korean J Anesthesiol.* 2008;54(3):283.
54. Lobb D, Ameli N, Ortiz S, Lai H. Comparison of the effects of target-controlled infusion-remifentanil/midazolam and manual fentanyl/midazolam administration on patient parameters in dental procedures. *J Dent Anesth Pain Med.* 2022;22(2):117.
55. Maltepe F, Kocaayan E, Ugurlu BS, Akdeniz B, Guneri S. Comparison of remifentanil and fentanyl in anaesthesia for elective cardioversion. *Anaesth Care.* 2006;34(3):353–7.



56. Nam SP, Bae JI, Auh WP, Je HW, Hyun SL. Safety and effectiveness of analgesia with remifentanil for percutaneous transhepatic biliary drainage. *Am J Roentgenol.* 2009;192(5):1430–3.
57. Dershwitz M, Michalowski P, Chang YC, Rosow CE, Conlay LA. Postoperative nausea and vomiting after total intravenous anesthesia with propofol and remifentanil or alfentanil: How important is the opioid? *J Clin Anesth.* 2002;14(4):275–8.
58. Zhong W, Shahbaz O, Teskey G, Beever A, Kachour N, Venketaraman V, et al. Mechanisms of nausea and vomiting: Current knowledge and recent advances in intracellular emetic signaling systems. *Int J Mol Sci.* 2021;22(11).
59. You AH, Kim JY, Kim DH, Suh J, Han DW. Effect of remifentanil and midazolam on ED95 of propofol for loss of consciousness in elderly patients. *Med (United States).* 2019;98(16):1–7.
60. Kim HT, Kim CK, Lee JH, Kwon YE, Lee JW, Kim DC. Effects of Fentanyl and Remifentanil on Hemodynamic Responses to Endotracheal Intubation during the Induction of Anesthesia with Propofol. *Korean J Anesth.* 2006;51(5):552–7.
61. Damayanti S, Adiputro DL, Tobing AL. Literature Review : Pengaruh Kombinasi Propofol-Fentanil Dan. Homeostasi. 2021;4:69–80.
62. Ko BJ, Oh JN, Lee JH, Choi SR, Lee SC, Chung CJ. Comparison of effects of fentanyl and remifentanil on hemodynamic response to endotracheal intubation and myoclonus in elderly patients with etomidate induction. *Korean J Anesthesiol.*

1):12–8.



63. Ghodse AH, Galea S. Opioid analgesics and narcotic antagonists. *Side Eff Drugs Annu.* 2009;31(C):149–80.
64. Lee SK, Jeong MA, Sung JM, Yeon HJ, Chang JH, Lim H. Effect of remifentanil infusion on the hemodynamic response during induction of anesthesia in hypertensive and normotensive patients: a prospective observational study. *J Int Med Res.* 2019;47(12):6254–67.
65. Noseir RK, Ficke DJ, Kundu A, Arain SR, Ebert TJ. Sympathetic and vascular consequences from remifentanil in humans. *Anesth Analg.* 2003;96(6):1645–50.
66. Mutlu M, Turkmen S. The effect of different anaesthesia techniques on postoperative pain and hospital discharge in varicose vein surgery. *Cardiovasc J Afr.* 2022;33(2):84–7.
67. Haytural C, Aydnl B, Demir B, Bozkurt E, Parlak E, Dişibeyaz S, et al. Comparison of Propofol, Propofol-Remifentanil, and Propofol-Fentanyl Administrations with Each Other Used for the Sedation of Patients to Undergo ERCP. *Biomed Res Int.* 2015;2015.
68. Martinez-Vazquez P, Jensen EW. Different perspectives for monitoring nociception during general anesthesia. *Korean J Anesthesiol.* 2022;75(2):112–23.
69. Park J, Kim M, Park YH, Shim JW, Lee HM, Kim YS, et al. Comparison of the effects of intravenous propofol and inhalational desflurane on the quality of early recovery after hand-assisted laparoscopic donor nephrectomy: A prospective, randomised controlled trial. *BMJ Open.* 2020;10(12).

B, Mckean G, Parks LJ. Nasotracheal intubation. *StatPearls Publ.* 2022;



71. Singh SA, Prakash K, Sharma S, Dhakate G, Bhatia V. Comparison of propofol alone and in combination with ketamine or fentanyl for sedation in endoscopic ultrasonography. *Korean J Anesthesiol.* 2018;71(1):43–7.
72. Matsota P, Sidiropoulou T, Vrantza T, Boutsikou M, Midvighi E, Siristatidis C. Comparison of two different sedation protocols during transvaginal oocyte retrieval: Effects on propofol consumption and ivf outcome: A prospective cohort study. *J Clin Med.* 2021;10(5):1–11.



LAMPIRAN



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REKOMENDASI PERSETUJUAN ETIK

Nomor : 60/UN4.6.4.5.31/ PP36/ 2024

Tanggal: 19 Januari 2024

Dengan ini Menyatakan bahwa Protokol dan Dokumen yang Berhubungan Dengan Protokol berikut ini telah mendapatkan Persetujuan Etik :

No Protokol	UH24010003		No Sponsor	
Peneliti Utama	dr. Nuri Kurniawan		Sponsor	
Judul Peneliti	PERBANDINGAN PENGGUNAAN REMIFENTANIL DENGAN FENTANYL TERHADAP MULA KERJA, PULIH SADAR, KEJADIAN MUAL MUNTAH, EFEK HEMODINAMIK DAN MOBILISASI PADA PASIEN RAWAT JALAN YANG MENJALANI OPERASI ENDOSKOPI DI INSTALASI GASTROENTEROHEPATOLOGI RSUP DR. WAHIDIN S			
No Versi Protokol	2	Tanggal Versi	18 Januari 2024	
No Versi PSP	2	Tanggal Versi	18 Januari 2024	
Tempat Penelitian	RSUP dr. Wahidin Sudirohusodo dan RS Jejaring Makassar			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard Tanggal 17 Januari 2024		Masa Berlaku 19 Januari 2024 sampai 19 Januari 2025	Frekuensi review lanjutan
Ketua Universitas Hasanuddin	KEP Nama Prof. dr. Muh Nasrum Massi, PhD, SpMK, Subsp. Bakt(K)	Tanda tangan 		
Sekretaris Universitas Hasanuddin	KEP Nama dr. Firdaus Hamid, PhD, SpMK(K)	Tanda tangan 		

Kewajiban Peneliti Utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum di implementasikan
- Menyerahkan Laporan SAE ke Komisi Etik dalam 24 Jam dan dilengkapi dalam 7 hari dan Laporan SUSAR dalam 72 Jam setelah Peneliti Utama menerima laporan
- Menyerahkan Laporan Kemajuan (progress report) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah
- Menyerahkan laporan akhir setelah Penelitian berakhir
- Melaporkan penyimpangan dari protokol yang disetujui (protocol deviation / violation)
- Mematuhi semua peraturan yang ditentukan



Optimization Software:
www.balesio.com

CURICULUM VITE

1. DATA PRIBADI

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2. RIWAYAT PENDIDIKAN

No	Jenjang Pendidikan	Institusi	Tahun	Tempat
1	SD	SD Negeri 1 Sigli	1992-1998	Manado
2	SMP	SMP Negeri 1 Sigli	1998-2001	Manado
3	SMA	SMA Negeri 2 SIGLI	2001-2004	Manado
4	S1 & PROFESI	FK Universitas Abulyatama Aceh	2004-2012	Manado
5	PPDS	Departemen Ilmu Anestesi, Terapi Intensif dan Manajemen Nyeri FK Universitas	2019-2024	Makassar

