

DAFTAR PUSTAKA

1. Pillarisetty LS, Mahdy H. Vaginal Hysterectomy. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 [cited 2024 Apr 6]. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK554482/>
2. Carugno J, Fatehi M. Abdominal Hysterectomy. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 [cited 2024 Apr 6]. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK564366/>
3. Chen CJ, Thompson H. Uterine Prolapse. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 [cited 2024 Apr 6]. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK564429/>
4. Gill P, Patel A, Van Hook JW. Uterine Atony. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 [cited 2024 Apr 6]. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK493238/>
5. Ramirez PT, Frumovitz M, Pareja R, Lopez A, Vieira M, Ribeiro R, et al. Minimally invasive versus abdominal radical hysterectomy for cervical cancer. *New England Journal of Medicine*. 2018;379(20):1895–904.
6. Margulies SL, Vargas MV, Denny K, Sparks AD, Marfori CQ, Moawad G, et al. Comparing benign laparoscopic and abdominal hysterectomy outcomes by time. *Surgical endoscopy*. 2020;34:758–69.
7. Dixon AE, Peters U. The effect of obesity on lung function. *Expert review of respiratory medicine*. 2018;12(9):755–67.
8. Polen-De C, Bakkum-Gamez J, Langstraat C. Route of Hysterectomy for Benign Disease: Abdominal Hysterectomy. *Journal of Gynecologic Surgery*. 2021;37(2):116–21.
9. Rosenbaum SB, Gupta V, Patel P, Palacios JL. Ketamine. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 [cited 2024 Apr 6]. Available from: <http://www.ncbi.nlm.nih.gov/books/NBK470357/>
10. Zanos P, Moaddel R, Morris PJ, Riggs LM, Highland JN, Georgiou P, et al. Ketamine and ketamine metabolite pharmacology: insights into therapeutic mechanisms. *Pharmacological reviews*. 2018;70(3):621–60.
11. Kopra E, Mondelli V, Pariante C, Nikkheslat N. Ketamine's effect on inflammation and kynurenine pathway in depression: A systematic review. *J Psychopharmacol*. 2021 Apr;35(8):934–45.



W, Hu J, Liu Y. Ketamine inhibits colorectal cancer cells malignant potential via
age of NMDA receptor. *Experimental and Molecular Pathology*. 2019
07:171–8.

13. Józwiak-Bębenista M, Sokołowska P, Wiktorowska-Owczarek A, Kowalczyk E, Sienkiewicz M. Ketamine – A New Antidepressant Drug with Anti-Inflammatory Properties. *J Pharmacol Exp Ther*. 2024 Jan;388(1):134–44.
14. Li JM, Liu LL, Su WJ, Wang B, Zhang T, Zhang Y, et al. Ketamine may exert antidepressant effects via suppressing NLRP3 inflammasome to upregulate AMPA receptors. *Neuropharmacology*. 2019 Mar;146:149–53.
15. AlAshqar A, Reschke L, Kirschen GW, Borahay MA. Role of inflammation in benign gynecologic disorders: from pathogenesis to novel therapies†. *Biology of Reproduction*. 2021 Jul 2;105(1):7–31.
16. Piotrowicz K, Gąsowski J. Risk factors for frailty and cardiovascular diseases: are they the same? *Frailty and Cardiovascular Diseases: Research into an Elderly Population*. 2020;39–50.
17. Lundin ES, Wodlin NB, Nilsson L, Theodorsson E, Ernerudh J, Kjølhed P. Markers of tissue damage and inflammation after robotic and abdominal hysterectomy in early endometrial cancer: a randomised controlled trial. *Sci Rep*. 2020 Apr 29;10(1):7226.
18. Plas M, Rutgers A, Van Der Wal-Huisman H, De Haan JJ, Absalom AR, De Bock GH, et al. The association between the inflammatory response to surgery and postoperative complications in older patients with cancer; a prospective prognostic factor study. *Journal of Geriatric Oncology*. 2020 Jun;11(5):873–9.
19. Kinoshita T, Goto T. Links between Inflammation and Postoperative Cancer Recurrence. *JCM*. 2021 Jan 10;10(2):228.
20. Shibutani M, Nakao S, Maeda K, Nagahara H, Fukuoka T, Iseki Y, et al. Inflammation Caused by Surgical Stress Has a Negative Impact on the Long-term Survival Outcomes in Patients With Colorectal Cancer. *Anticancer Res*. 2020 Jun;40(6):3535–42.
21. Savant SS, Sriramkumar S, O'Hagan HM. The role of inflammation and inflammatory mediators in the development, progression, metastasis, and chemoresistance of epithelial ovarian cancer. *Cancers*. 2018;10(8):251.
22. Gao Q, Guo L, Wang B. The pathogenesis and prevention of port-site metastasis in gynecologic oncology. *Cancer Management and Research*. 2020;9655–63.
23. Peng J, Dong R, Jiao J, Liu M, Zhang X, Bu H, et al. Enhanced Recovery After Surgery Impact on the Systemic Inflammatory Response of Patients Following Gynecological Oncology Surgery: A Prospective Randomized Study. *CMAR*. 2021 Jun;Volume 183–92.
24. Kiyak H, Şimşek E, Karabuk E, Seckin KD. The levels of VAS in non-complicated patients with total laparoscopic hysterectomy and its role in predicting a cuff hematoma. *Eastern J Med*. 2021;26(2):228–35.



25. Fang Y, Zheng T, Zhang C. Prognostic Role of the C-Reactive Protein/Albumin Ratio in Patients With Gynecological Cancers: A Meta-Analysis. *Front Oncol.* 2021 Oct 28;11:737155.
26. Cho, J. E.; Shim, J. K.; Choi, Y. S.; Kim, D. H.; Hong, S. W.; Kwak, Y. L. (2009). Effect of low-dose ketamine on inflammatory response in off-pump coronary artery bypass graft surgery. *British Journal of Anaesthesia*, 102(1), 23–28. doi:10.1093/bja/aen325
27. Singh, Daljeet; Kashav, Ramesh; Magoon, Rohan; Kohli, Jasvinder Kaur; Kaur, Mohandeep; Gupta, Aastha; Gupta, Vijay (2020). Evaluation of Low-Dose Ketamine on Inflammatory Biomarker Profile Following Off-Pump Coronary Artery Bypass Grafting. *Journal of Cardiac Critical Care TSS*, 04(01), 33–39. doi:10.1055/s-0040-1713299
28. Hart PC, Rajab IM, Alebraheem M, Potempa LA. C-Reactive Protein and Cancer—Diagnostic and Therapeutic Insights. *Front Immunol.* 2020 Nov 19;11:595835.
29. Zou P, Yang E, Li Z. Neutrophil-to-lymphocyte ratio is an independent predictor for survival outcomes in cervical cancer: a systematic review and meta-analysis. *Sci Rep.* 2020 Dec 14;10(1):21917.
30. Jonska-Gmyrek J, Gmyrek L, Zolciak-Siwinska A, Kowalska M, Fuksiewicz M, Kotowicz B. Pretreatment neutrophil to lymphocyte and platelet to lymphocyte ratios as predictive factors for the survival of cervical adenocarcinoma patients. *CMAR.* 2018 Nov;Volume 10:6029–38.
31. Pillarisetty LS, Mahdy H. Vaginal Hysterectomy. [Updated 2023 Apr 24]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK554482/>
32. Burmeister, C.A. et al. 'Cervical cancer therapies: Current challenges and future perspectives', *Tumour Virus Research*, 13, p. 200238. 2022. Available at: <https://doi.org/10.1016/j.tvr.2022.200238>.
33. Konishi I. Basic Principle and Step-by-Step Procedure of Abdominal Hysterectomy: Part 2. *Surg J (N Y)*. 2018 Dec 26;5(Suppl 1):S11-S21. doi: 10.1055/s-0038-1676467. PMID: 31187067; PMCID: PMC6554018.
34. Bain, et al. Postoperative systemic inflammatory dysregulation and corticosteroids: a narrative review. *Anaesthesia* 2023, 78, 356–370
35. Lundin ES, Wodlin NB, Nilsson L, Theodorsson E, Ernerudh J, Kjølhede P. Markers of tissue damage and inflammation after robotic and abdominal hysterectomy in early metrial cancer: a randomised controlled trial. *Sci Rep.* 2020 Apr 29;10(1):7226. doi:10.1038/s41598-020-64016-1. PMID: 32350297; PMCID: PMC7190843.
- nir A, et al. A. Prospective comparison of tissue trauma after laparoscopic rectomy types with retroperitoneal lateral transection of uterine vessels using



- ligasure and abdominal hysterectomy. *Arch. Gynecol. Obstet.* 2008;277:325–330. doi: 10.1007/s00404-007-0485-3.
37. Yue Q, et al. Effects of laparoscopically-assisted vaginal hysterectomy compared with abdominal hysterectomy on immune function. *J. Int. Med. Res.* 2009;37:855–861. doi: 10.1177/147323000903700330.
 38. Tohme S, Simmons RL, Tsung A. Surgery for cancer: a trigger for metastases. *Cancer Res* 2017;77:1548–52.
 39. Hou BJ, Du Y, Gu SX, Fan J, Wang R, Deng H, Guo DX, Wang L, Wang YY. General anesthesia combined with epidural anesthesia maintaining appropriate anesthesia depth may protect excessive production of inflammatory cytokines and stress hormones in colon cancer patients during and after surgery. *Medicine (Baltimore)*. 2019 Jul;98(30):e16610. doi: 10.1097/MD.00000000000016610.
 40. Matsuzaki J, Tsuji T, Luescher IF, et al. Direct tumor recognition by a human CD4(+) T-cell subset potently mediates tumor growth inhibition and orchestrates anti-tumor immune responses. *Sci Rep* 2015;5:14896.
 41. Abrar Mohammad. Cardiovascular response during induction, laryngoscopy, intubation and surgery in normotensive and controlled hypertensive patients undergoing abdominal surgeries under general anaesthesia. *International Journal of Contemporary Medical Research* 2019;6(8):H22-H25.
 42. Chen WK, Miao CH. The effect of anesthetic technique on survival in human cancers: a meta-analysis of retrospective and prospective studies. *PLoS One* 2013;8:e56540.
 43. Labib M, Palfrey S, Paniagua E, Callender R. The postoperative inflammatory response to injury following laparoscopic assisted vaginal hysterectomy versus abdominal hysterectomy. *Ann Clin Biochem.* 1997 Sep;34 (Pt 5):543-5. doi: 10.1177/000456329703400509. PMID: 9293310.
 44. Ackroyd SA, Hernandez E, Roberts ME, et al Postoperative complications of epidural analgesia at hysterectomy for gynecologic malignancies: an analysis of the National Surgical Quality Improvement Program *International Journal of Gynecologic Cancer* 2020;30:1203-1209.
 45. Avila Hernandez AN, Hendrix JM, Singh P. Epidural Anesthesia. [Updated 2024 Feb 2]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK542219/>
 46. Manggala S. K. Ilmu dasar terapi intensif dalam Anestesiologi dan terapi intensif. Ed.1.



in GE, Mikhail MS, Murray MJ. Local Anesthetics. *Clinical Anesthesiology*. 6th ed. New York: Mc Graw Hill Lange Medical Books: 2018

48. Rosenbaum SB, Gupta V, Patel P, et al. Ketamine. [Updated 2024 Jan 30]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK470357/>
49. Liu FL, Chen TL, Chen RM. Mechanisms of ketamine-induced immunosuppression. *Acta Anaesthesiol Taiwan*. 2012 Dec;50(4):172-7. doi: 10.1016/j.aat.2012.12.001. Epub 2013 Jan 11. PMID: 23385040.
50. Loix S, De Kock M, Henin P. The anti-inflammatory effects of ketamine: state of the art. *Acta Anaesthesiol Belg*. 2011;62(1):47-58. PMID: 21612145.
51. Buonacera A, Stancanelli B, Colaci M, Malatino L. Neutrophil to Lymphocyte Ratio: An Emerging Marker of the Relationships between the Immune System and Diseases. *Int J Mol Sci*. 2022 Mar 26;23(7):3636. doi: 10.3390/ijms23073636. PMID: 35408994; PMCID: PMC8998851.
52. He YM, Liu X, Zhong SY, Fu QH. Neutrophil-to-lymphocyte ratio in relation to trauma severity as prognosis factors in patients with multiple injuries complicated by multiple organ dysfunction syndrome: A retrospective analysis. *Immun Inflamm Dis*. 2023 Sep;11(9):e1031. doi: 10.1002/iid3.1031. PMID: 37773708; PMCID: PMC10521378.
53. Heffernan DS, Monaghan SF, Thakkar RK, Machan JT, Cioffi WG, Ayala A. Failure to normalize lymphopenia following trauma is associated with increased mortality, independent of the leukocytosis pattern. *Crit Care*. 2012;16(1):R12. 10.1186/cc11157
54. Shetty S, Ethiraj P, Shanthappa AH. C-reactive Protein Is a Diagnostic Tool for Postoperative Infection in Orthopaedics. *Cureus*. 2022 Feb 16;14(2):e22270. doi: 10.7759/cureus.22270. PMID: 35350520; PMCID: PMC8931842.
55. Cristian Bartoc; Robert J. Frumento; Maya Jalbout; Elliott Bennett-Guerrero; Evelyn Du; Ervant Nishanian (2006). A Randomized, Double-Blind, Placebo-Controlled Study Assessing the Anti-inflammatory Effects of Ketamine in Cardiac Surgical Patients. , 20(2), 0–222. doi:10.1053/j.jvca.2005.12.005
56. Brandsborg B., et al. Risk Factors for Chronic Pain after Hysterectomy. 2007. A Nationwide Questionnaire and Database Study. *Anesthesiology* 2007; 106:1003–12
57. Nehring SM, Goyal A, Patel BC. C Reactive Protein. [Updated 2023 Jul 10]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK441843/>
58. Forget P, Khalifa C, Defour JP, Latinne D, Van Pel MC, De Kock M. What is the normal of the neutrophil-to-lymphocyte ratio? *BMC Res Notes*. 2017 Jan 3;10(1):12. 0.1186/s13104-016-2335-5. PMID: 28057051; PMCID: PMC5217256.



59. Bagle A, Pujari S, Shah K, Solanki S, Singh C. The Effect of Intravenous Ketamine After Spinal Anesthesia on the Duration of Postoperative Analgesia and Analgesic Requirement. *J Pharmacol Pharmacother*. 2022 Sep 10;13(3):278–83
60. Hallikeri SV, Sinha R, Ray BR, Pandey RK, Darlong V, Punj J, et al. Effect of Low-dose Ketamine on Inflammatory Markers, Perioperative Analgesia, and Chronic Pain in Patients Undergoing Laparoscopic Inguinal Hernia Surgery: A Prospective, Randomized, Double-blind, Comparative Study. *Turk J Anaesthesiol Reanim*. 2024 Dec 16;52(6):231–9.
61. Gao W, Li H, Li T, Zhang L, Zhang T, Lin W, et al. Effects of S-ketamine on Postoperative Recovery Quality and Inflammatory Response in Patients Undergoing Modified Radical Mastectomy. *Pain Ther*. 2023 Oct 24;12(5):1165–78
62. De Kock M, Loix S, Lavand'homme P. Ketamine and Peripheral Inflammation. *CNS Neurosci Ther*. 2013 Jun 10;19(6):403–10
63. Dale O, Somogyi AA, Li Y, Sullivan T, Shavit Y. Does Intraoperative Ketamine Attenuate Inflammatory Reactivity Following Surgery? A Systematic Review and Meta-Analysis. *Anesth Analg*. 2012 Oct;115(4):934–43
64. Gao M, Jin W, Qian Y, Ji L, Feng G, Sun J. Effect of N-methyl-D-aspartate receptor antagonist on T helper cell differentiation induced by phorbol-myristate-acetate and ionomycin. *Cytokine*. 2011 Nov;56(2):458–65
65. Widnyana IMG, Suarjaya IPP, Senapathi TGA, Ryalino C, Adi MSP. Comparison of C-Reactive Protein Levels, Neutrophil Count, and Clinical Outcomes between Low-Dose Ketamine Given at the End of Surgery and at Induction in Laparotomy. *Bali Journal of Anesthesiology*. 2021 Apr;5(2):98–101.
66. Gao M, Rejaei D, Liu H. Ketamine use in current clinical practice. *Acta Pharmacol Sin*. 2016 Jul 28;37(7):865–72
67. Kwok RFK, Lim J, Chan MTV, Gin T, Chiu WKY. Preoperative Ketamine Improves Postoperative Analgesia After Gynecologic Laparoscopic Surgery. *Anesth Analg*. 2004 Apr;1044–9.
68. Nielsen RV, Fomsgaard JS, Nikolajsen L, Dahl JB, Mathiesen O. Intraoperative S-ketamine for the reduction of opioid consumption and pain one year after spine surgery: A randomized clinical trial of opioid-dependent patients. *European Journal of Pain*. 2019 Mar 14;23(3):455–60.
69. Sleight J, Harvey M, Voss L, Denny B. Ketamine – More mechanisms of action than just A blockade. *Trends in Anaesthesia and Critical Care*. 2014 Jun;4(2–3):76–81
70. Li J, Ma Q, Li W, Li X, Chen X. S-Ketamine attenuates inflammatory effect and modulates the immune response in patients undergoing modified radical mastectomy: a prospective randomized controlled trial. *Front Pharmacol*. 2023 Feb 16;14



71. Ithnin F, Tan DA, Xu X, Tan C, Sultana R, Sng B. Low-dose S+ ketamine in target-controlled intravenous anaesthesia with remifentanyl and propofol for open gynaecological surgery: A randomised controlled trial. *Indian J Anaesth.* 2019;63(2):126
72. Brinck E, Tiippana E, Heesen M, Bell RF, Straube S, Moore RA, et al. Perioperative intravenous ketamine for acute postoperative pain in adults. *Cochrane Database of Systematic Reviews.* 2018 Dec 20
73. Huda A ul, Minhas R, Yasir M. Intravenous ketamine in gynaecological surgeries reduces pain score and opioid consumption. *J Pak Med Assoc.* 2022 Nov 15;72(12):2491–7
74. Zhou L, Yang H, Hai Y, Cheng Y. Perioperative Low-Dose Ketamine for Postoperative Pain Management in Spine Surgery: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Pain Res Manag.* 2022 Mar 31;2022:1–20
75. García-Henares JF, Moral-Munoz JA, Salazar A, Del Pozo E. Effects of Ketamine on Postoperative Pain After Remifentanyl-Based Anesthesia for Major and Minor Surgery in Adults: A Systematic Review and Meta-Analysis. *Front Pharmacol.* 2018 Aug 17;9
76. Spencer HF, Berman RY, Boese M, Zhang M, Kim SY, Radford KD, et al. Effects of an intravenous ketamine infusion on inflammatory cytokine levels in male and female Sprague–Dawley rats. *J Neuroinflammation.* 2022 Apr 4;19(1):75.

