

REFERENCES

- Amit, J and Govind S. (2013) Effect of preoperative medications on the efficacy of inferior alveolar nerve block in patients with irreversible pulpitis: A placebo-controlled clinical study. *JCD*. 16(2): pp 171-174.
- Appleby, S.B., Ristimäki, A., Neilson, K., Narko, K., Hla, T. (1994). Structure of the human cyclo-oxygenase-2 gene. *Biochemical Journal*. 302(3): pp. 723-727.
- Bao, P., Kodra, A., Tomic-Canic, M., Golinko, M.S., Ehrlich, H.P., Brem, H. (2009). The Role of Vascular Endothelial Growth Factor in Wound Healing. *J Surg Res*. 153(2): pp. 347-358.
- Berne, R. M., Koeppen, B. M., and Stanton, B. A. (2010). *Berne & Levy physiology* 6thed . Philadelphia, PA: Mosby/Elsevier.
- Bhangu, A., Singh, P., Fitzgerald, J., Slessor, A., Tekkis, P.. (2014). Postoperative Nonsteroidal Anti-inflammatory Drugs and Risk of Anastomotic Leak: Meta-analysis of Clinical and Experimental Studies. *World J surg*. 38(9): pp. 2247-2257
- Binnebösel, M., Grommes, J., Koenen, B., Junge, K., Klink, C.D., Stumpf, M., Ottinger A.P, Schumpelick V, Klinge U, Krones C.J. (2010). Zinc deficiency impairs wound healing of colon anastomosis in rats. *Int J Colorectal Dis*. 25(2). pp. 251-257.
- Bishop, A. (2008). Role of oxygen in wound healing. *J Wound Care*, 17(9):pp. 399-402
- Buckley MM, Brogden RN. (1990). Ketorolac. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential. *Drugs*. 39(1) : pp.86-109
- Busti, A.J., Hooper, J.S., Amaya, C.J. dan Kazi, S., (2005). Effects of perioperative antiinflammatory and immunomodulating therapy on surgical wound healing. *Pharmacotherapy*, 25(11), pp.1566-1591.
- Campos C, de Gregorio R, García-Nieto R, Gago F, Ortiz P, Alemany S. (1999). Regulation of cyclooxygenase activity by metamizol. *Eur J Pharmacol*. 378(3): pp 339-347.
- Crofford LJ. (1997). COX-1 and COX-2 tissue expression: implications and predictions. *J Rheumatol Suppl*. 49: pp.15-19.
- Dhalla, I.A., Gomes, T., Mamdani, M.M., Juurlink, D.N. (2012). Opioids versus nonsteroidal anti-inflammatory drugs in noncancer pain. *CFP*. 58(1):30.
- Díaz-González, F., Sánchez-Madrid, F. 2015. NSAIDs: learning new tricks from old drugs. *Eur. J. Immunol*. 45(3): pp. 679-686.

- Fairweather, M., Heit, Y., Buie, J., Rosenberg, L.M., Briggs, A., Orgill, D.P., Bertagnolli MM. (2018). Celecoxib inhibits early cutaneous wound healing. *J Surg Res.* 194(2): pp. 717-724.
- Finetti, F., Solito, R., Morbidelli, L., Giachetti, A., Ziche, M., Donnini, S. (2008). Prostaglandin E2 regulates angiogenesis via activation of fibroblast growth factor receptor-1. *J Biol Chem.* 283(4): pp. 2139-2146.
- Gillis, J.C. & Brogden, R.N. (1997). Ketorolac. A reappraisal of its pharmacodynamic and pharmacokinetic properties and therapeutic use in pain management. *Drugs.* 53(1): pp.139-188.
- Gorissen, K.J., Benning, D., Berghmans, T., Snoeijs, M.G., Sosef, M.N., Hulsewe, K.W. (2012). Risk of anastomotic leakage with non-steroidal anti-inflammatory drugs in colorectal surgery. *Br J Surg.* 99(5): pp. 721–727.
- Hakkarainen, T.W., Steele, S.R., Bastaworous, A., Dellinger, E.P., Farrokhi, E., Farjah, F., Florence, M., Helton, S., Horton, M., Pietro, M. and Varghese, T.K., (2015). Nonsteroidal anti-inflammatory drugs and the risk for anastomotic failure: a report from Washington State’s Surgical Care and Outcomes Assessment Program (SCOAP). *JAMA Surg,* 150(3),pp.223-228. Hesp, F.L.E.M.,
- Hendriks, T., Lubbers, E.J.C., deBoer, H.H.M. (1984). Wound healing in the intestinal wall. A comparison between experimental ileal and colonic anastomoses. *Dis Colon Rectum.* 27(2): pp. 99-104.
- Hinz B, Cheremina O, Brune K. (2008). Acetaminophen (paracetamol) is a selective cyclooxygenase-2 inhibitor in man. *FASEB J* 22(2): pp. 383-390
- Huang, Y., Tang, S. R., & Young, C. J., (2017). Nonsteroidal anti-inflammatory drugs and anastomotic dehiscence after colorectal surgery: a meta-analysis. *ANZ Journal of Surgery.* 88(10): pp. 959-965.
- Iizuka M and Konno S. (2011) Wound healing of intestinal epithelial cells. *World J Gastroenterol.* 17(17): pp.2161-2171.
- Ishii, M., Tanaka, E., Imaizumi, T., Sugio, Y., Sekka, T., Tanaka, M., Yasuda, M, Fukuyama, N, Shinozaki, Y, Hyodo, K, Tanioka, K, Mochizuki, R, Kawai, T, Mori, H, Makuuchi, H. (2009). Local VEGF administration enhances healing of colonic anastomoses in a rabbit model. *Eur Surg Res.* 42(4): pp. 249-257.
- Jasiecka, A., Maślanka, T. and Jaroszewski, J.J., (2014). Pharmacological characteristics of metamizole. *Pol J Vet Sci.* 17(1): pp. 207-214.
- Jóźwiak-Bebenista, M. & Nowak, J.Z. (2014). Paracetamol: mechanism of action, applications and safety concern. *Acta Pol Pharm.* 71(1): pp.11-23.
- Jung, D., Mroszczak, E.J., Wu, A., Ling, T.L., Sevelius, H. Bynum, L. (1989). Pharmacokinetics of ketorolac and p-hydroxyketorolac following oral and

- intramuscular administration of ketorolac tromethamine. *Pharm Res.* 6(1): pp. 62-65.
- Jones, M.K., Wang, H., Peskar, B.M., Levin, E., Itani, R.M., Sarfeh, I.J., Tarnawski, A.S. (1999). Inhibition of angiogenesis by non-steroidal anti-inflammatory drugs: insight into mechanisms and implications for cancer growth and ulcer healing. *Nat Med.* 5(12): pp. 1418–1423.
- Klein, M. (2012). Postoperative non-steroidal anti-inflammatory drugs and colorectal anastomotic leakage. NSAIDs and anastomotic leakage. *Dan Med J.* 59(3).
- Klein, T., Shephard, P., Kleinert, H., Kömhoff, M. (2007). Regulation of cyclooxygenase-2 expression by cyclic AMP. (*BBA*), *Molecular Cell Research.* 1773(11): pp. 1605-1618.
- Kotagal, M., Hakkarainen, T.W., Simianu, V.V., Beck, S.J., Alfonso-Cristancho, R. and Flum, D.R., (2016). Ketorolac Use and Postoperative Complications in Gastrointestinal Surgery. *Ann Surg*, 263(1), pp.71-75.
- Kötter, T., da Costa, B.R., Fässler, M., Blozik, E., Linde, K., Jüni P, Reichenbach S, Scherer M. (2015). Metamizole-Associated Adverse Events: A Systematic Review and Meta-Analysis. *PLOS ONE.* 10(4).
- Krafts, K.P. (2010). Tissue repair: The hidden drama. *Organogenesis.* 6(4): pp. 225-233.
- Li, Z., Wang, W., Wang, X., Jiang, L., Wang, F., & Liu, Q. (2017). Sustained-released mixture of vascular endothelial growth factor 165 and fibrin glue strengthens healing of ileal anastomoses in a rabbit model with intraperitoneal infection. *Annals of surgical treatment and research.* 93(3): pp. 159-165.
- Matsui H, Shimokawa O, Kaneko T, Nagano Y, Rai K, Hyodo I. (2011). The Pathophysiology of Non-steroidal Anti-inflammatory Drug (NSAID)-induced Mucosal Injuries in stomach and small intestine. *J Clin Biochem Nutr*; 48(2): pp. 107-111.
- Muscará, M.N., McKnight, W., Asfaha, S., Wallace, J.L. (2000). Wound collagen deposition in rats: effects of an NO-NSAID and a selective COX-2 inhibitor. *Br. J. Pharmacol.* 129(4): pp. 681-686.
- Martens, M.F.W.C., Hendriks, T. (1991). Postoperative changes in collagen synthesis in intestinal anastomoses of the rat: differences between small and large bowel. *Gut.* 32(12): pp. 1482–1487.
- Namkoong, S., Lee, S., Kim, C., Kim, Y., Chung, H., Lee, H, Han JA, Ha KS, Kwon YG, Kim YM. (2005). Prostaglandin E2 stimulates angiogenesis by activating the nitric oxide/cGMP pathway in human umbilical vein endothelial cells. *Exp Mol Med.* 37(6): pp. 588-600.

- Oestern, H.J., Trentz, O. & Uranues, S. (2014). Bone and Joint Injuries: Trauma Surgery III. *Springer Science & Business Media*.
- Park, J.S., Huh, J.W., Park, Y.A., *et al.* (2016). Risk Factors of Anastomotic Leakage and Long-Term Survival After Colorectal Surgery. *Medicine (Baltimore)*. 95(8).
- Rybinski, B., Franco-Barraza, J., Cukierman, E. (2014). The wound healing, chronic fibrosis, and cancer progression triad. *Physiological Genomics*. 46(7): pp. 223-244.
- Sari, G.E. (2017). Studi in-vitro pengaruh Anti Inflamasi Non-Steroid terhadap proliferasi kultur fibroblast kolon tikus. *Dissertation*. Faculty of Medicine, Universitas Gadjah Mada.
- Sawaoka H, Kawano S, Tsuji S, Tsujii M, Gunawan ES, Takei Y, Nagano K, Hori M. (1998) Cyclooxygenase-2 inhibitors suppress the growth of gastric cancer xenografts via induction of apoptosis in nude mice. *Am J Physiol*.274(6 Pt 1): pp 1061-1067.
- Singh S, Graff LA, Bernstein CN. (2009). Do NSAIDs, antibiotics, infections, or stress trigger flares in IBD? *Am J Gastroenterol*. 104(5): pp. 1298-1313
- Sinha VR, Kumar RV, Singh G. (2009). Ketorolac tromethamine formulations : an overview. *Expert Opin Drug Deliv*. 6(9): pp. 961-975
- Shim, Y.K. & Kim, N., (2016). Nonsteroidal anti-inflammatory drug and aspirin-induced peptic ulcer disease. *Korean J Gastroenterol*. 67(6): pp. 300-312.
- Sparreboom, C.L., Wu, Z-Q., Ji, J-F., Lange, J.F. (2016). Integrated approach to colorectal anastomotic leakage: Communication, infection and healing disturbances. *World J. Gastroenterol*. 22(32): pp. 7226-7235.
- Syk, I., Mirastschijski, U., Jeppsson, B.W., Agren, M. S. (2003). Experimental Colonic Obstruction Increases Collagen Degradation by Matrix Metalloproteinases in the Bowel Wall. *Dis Colon Rectum*. 46(9): pp. 1251-1259.
- Tanaka, A., Araki, H., Hase, S., Komoike, Y., & Takeuchi, K. (2002). Up-regulation of COX-2 by inhibition of COX-1 in the rat: a key to NSAID-induced gastric injury. *Aliment. Pharmacol. Ther.* 16(2): pp. 90–101.
- Thompson, S.K., Chang, E.Y., Jobe, B.A. (2006). Clinical Review: Healing in gastrointestinal Anastomoses part I. *Microsurgery*. 26(3): 131-136.
- Van der Westhuizen, J., Kuo, P.Y., Reed, P.W. & Holder, K. (2011). Randomised controlled trial comparing oral and intravenous paracetamol (acetaminophen)

plasma levels when given as preoperative analgesia. *Anaesth Intensive Care*. 39(2): pp. 242-246.

Velnar, T., Bailey, T. and Smrkolj, V. (2009). The Wound Healing Process: An overview of the Cellular and Molecular Mechanisms, *J. Int. med. Res.* 37(5), pp. 1528–1542

Warner D.T, Giuliano F., Vojnovic I., Bukasa A., Mitchell J.A, Vane J.R. (1999). Nonsteroid drug selectivities for cyclo-oxygenase-1 rather than cyclo-oxygenase-2 are associated with human gastrointestinal toxicity: A full in vitro analysis. *PNAS* 96(13): pp. 7563-7568.

Zhao-Fleming H, Hand A, Zhang K, Polak R, Northcut A, Jacob D, Dissanaik S, and Rumbaugh K. P. (2018). Effect of non-steroidal anti-inflammatory drugs on post-surgical complications against the backdrop of the opioid crisis. *Burns Trauma*. 6 (25).