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Advokat C (1988):

The role of descending inhibition in morphine-induced analgesia. Trends Pharm. Sci. 9: 330.

Albertin A, Casati A, Deni F, Danelli G, Comotti L, Grifoni F and Fanelli G (2000):

Clinical comparison of either small doses of fentanil or remifentanil for blunting cardiovascular changes induced by tracheal intubation. Minerva Anesthesiol. 66: 691.

Arner S and Meyerson BA (1988):

Lack of analgesic effects of opioids on neuropathic and idiopathic forms of pain. Pain 33: 11.

Atcheson (1994):

Update on opioid receptors. Br. J. Anaesth. 73: 132.

Attali B, Saya D and Vogel Z (1990):

Pre- and post-natal development of opiate receptor subtypes in rat spinal cord. Developmental Brain Research 53: 97 – 102.

Bailey PL, Egan TD and Stanley TH (2000):

Intravenous opioid anesthetics. In: Miller RD, editor. Anesthesia, 5th ed., London: Chirchil-Livingstone; 273 – 377.

Barbara AC (1997):

Opioids. In: Barash PG, Cullen BF and Stoelting RK (eds.), Clinical Anesthesia, 3rd ed., Philadelphia, New York: Lippincott-Raven; 329 – 358.

Barclay K and Kluger MT (2000):

Effect of bolus dose of remifentanil on haemodynamic response to tracheal intubation. Anaesth. Intensive Care; 28 (4): 403 – 7.

Brownstein MJ (1993):

A brief history of opiates, opioid peptides and opioid receptors. Proceeding of the National Academy of Science (USA); 90: 5391 – 5393.

Buerkle H and Yaksh TL (1996):

Continuous intrathecal administration of shortlasting mu opioids remifentanil and alfentanil in the rat. *Anesthesiology* 84: 926.

Carr DJJ, Rogers TJ and Weber RJ (1993):

The relevance of opioids and opioid receptors on immunocompetence and immune homeostasis. *Proc. Soc. Exp. Boil. Med.* 213: 248.

Chan KW, Duttory A and Yoburn BC (1996):

Magnitude of tolerance to fentanyl is independent of μ -opioid receptor density. *Eur. J. Pharmacol.* 319: 225.

Charnay Y, Paulin C, Dray F and Dubois P-M (1984):

Distribution of enkephalin in the human fetus and spinal cord: an immunofluorescence study. *Journal of Comparative Neurology*; 223: 415 – 423.

Dalsgaard J, Felsby S, Juelsgaard P and Froekjaer J (1994):

Low-dose intra-articular morphine analgesia in day case knee arthroscopy: a randomized double-blinded prospective study. *Pain*; 56: 151 – 154.

Delitala G, Trainer PJ, Oliva O, et al (1994):

Opioid peptide and alpha-adenoreceptor pathways in the regulation of the pituitary-adrenal axis in man. *J. Endocrinol.* 141: 163.

Dhawan BN, Celsselin F, Raghubir R, Reisine T, Bradley PB, Portoghese PS and Hamon M (1996):

International Union of Pharmacology: 12. Classification of opioid receptors. *Pharmacological Reviews*; 48: 567 – 592.

Dhileep S and Stacey RG (2001):

A preliminary investigation of remifentanil as a labor analgesic. *Anesth. Analg.*; 92 (5): 1358 – 1359.

Dickenson AH (1994):

Where and how do opioids act? In: Gebhart GF, Hammond DL, Jensen TS, eds. *Proceedings of the 7th World Conference on Pain, Progress in Pain Research and Management*. Seattle: IASP Press; 525 – 552.

Dickenson AH (1995):

Spinal cord pharmacology of pain. *Br. J. Anaesth.*; 75: 193 – 200.

Doberezak TM, Kandal SR and Wilets I (1991):

Neonatal opiate abstinence syndrome in term and preterm infants. *J. Pediatr.* 118: 933.

Domaingue CM (2001):

Propofol/remifentanil in neurosurgery. *Anaesth. Intensive Care*; 29(2): 205 – 206.

Duthie DJR (1998):

Remifentanil and tramadol. *Br. J. Anaesth.*; 81: 51 – 57.

Duttarory A and Yoburn BC (1995):

The effect of intrinsic efficacy on opioid tolerance. *Anesthesiology* 82: 1226.

Egan TD (1995):

Remifentanil pharmacokinetics and pharmacodynamics. A preliminary appraisal. *Clinical Pharmacokinetics*, 29: 80 – 92.

Elliott P, O'Hare R, Bill KM, Phillips AS, Gibson FM and Mirakhur RK (2000):

Severe cardiovascular depression with remifentanil. *Anesth. Analg.* 91: 58.

Flórez J and Hurlé MA (1993):

Opioids in respiration and vomiting. In Herz A (ed.): Opioids II: Handbook of Experimental Pharmacology. Berlin, Springer-Verlag, p 263.

Friedlander M and Noble WH (1989):

Meperidine to control shivering associated with platelet transfusion reaction. Can. J. Anaesth. 86: 460.

Fujinaga M, Mazze RI, Jackson EL, et al (1988):

Reproductive and teratogenic effects of sufentanil and alfentanil in Sprague-Dawley rats. Anesth. Analg. 67: 166.

Ganong WF (1995):

Review of medical physiology. Appleton-Lange California, 103-119.

Glass PS, Hardman D, Kamiyama Y, Quill TJ, Marton G, Donn KH, Grosse CM and Hermann D (1993):

Preliminary pharmacokinetics and pharmacodynamics of an ultra-short acting opioid: Remifentanil (GI87084B). Anesthesia and Analgesia; 77: 1031 – 1040.

Glass PS (1995):

Remifentanil. A new opioid. J. Clin. Anesth. 7: 555.

Glass PS, Gan TJ and Howell S (1999):

A review of the pharmacokinetics and pharmacodynamics of remifentanil. Anesth. Analg.; 89: S7 – 14.

Goresky GV, Koren G, Sabourn MA, et al (1987):

The pharmacokinetics of alfentanil in children. Anesthesiology 67: 654.

Gravlee GP, et al (1988):

Rapid administration of a narcotic and neuromuscular blocker: a hemodynamic comparison of fentanyl, sufentanil, pancronium and vecuronium. *Anesth. Analg.* 67: 39.

Guyton AC and Hall JE (1996):

Pain pathway-textbook of medical physiology. W. B. Saunders, Philadelphia, 609-620.

Hanks GW and Forbes K (1997):

Opioid responsiveness. *Acta Anesthesiol. Scand.* 41: 154.

Harrison C, Smart D and Lambert DG (1998):

Stimulatory effects of opioids. *Br. J. Anaesth.*; 81: 20 – 28.

Hickey PR and Hansen DD (1991):

High-dose fentanyl reduces intraoperative ventricular fibrillation in neonates with hypoplastic left heart syndrome. *J. Clin. Anaesth.* 3: 295.

Hoffman WE, Cunningham F, James MK, et al (1993):

Effects of remifentanyl, a new short acting opioid, on cerebral blood flow, brain electrical activity and intracranial pressure in dogs anesthetized with isoflurane and nitrous oxide. *Anesthesiology* 79: 107.

Horn AS, Rodgers JR (1976):

Structural and conformational relationships between the enkephalins and the opiates. *Nature* 260:795.

Ikeda T, Sessler DI, Tayafeh F, et al (1998):

Meperidine and alfentanil do not reduce the gain or maximum intensity of shivering. *Anesthesiology* 88: 858.

Jaffe JH and Martin WR (1985):

Opioid analgesics and antagonists. In Gilman AG, Goodman LS, Rall TW, et al (eds.): The pharmacological basis of therapeutics, 7th ed., p491. New York, Macmillan.

James MK, Vuong A, Grizzle MK, et al (1992):

Hemodynamic effects of GI87084B, an ultra-short acting mu-opioid analgesic, in anesthetized dogs. J. Pharmacol. Exp. Ther. 263: 84.

Janssen PA (1984):

The development of new synthetic narcotics. In Estafanous FG (ed.): Opioids in anesthesia, p37. Boston, Butterworth.

Jiang Q, Takimori AE, Sultana M, Portoghese PS, Bowen WD, Mosberg HI and Porreca F (1991):

Differential anatagonism of opioid delta antinociception by [D-Ala², Leu⁵, Cys⁶] enkephalin and naltrindole 5 – isothiocyanate: evidence for delta receptor subtypes. Journal of Pharmacology and Experimental Therapeutics; 257: 1069 – 1075.

Kalant H and Grupp LA (1989):

Drug abuse and drug dependence. In Kalant H, Roschlau WHE. editors: Principles of medical pharmacology, ed.5, Toronto, BC Decker.

Kanjhan R (1995):

Opioids and pain. Clinical and Experimental Pharmacology and Physiology; 22: 397 – 403.

Kar S and Quirion R (1995):

Neuropeptide receptors in developing and adult rat spinal cord: an invitro quantitative autoradiography study of calcitonin gene-related peptide, neurokinins, μ -opioid, gelanin, somatostatin, neurotensin and vasoactive intestinal polypeptide receptors. Journal of Comparative Neurology; 354: 253 – 281.

Katz N and Ferrante FM (1993):

Nociception. Vacle B on couer TR, editors: Postoperative pain management, New York, Churchill-Livingstone.

Kazmaier S, Hanekop GG, Buhre W, Weyland A, Busch T, Radke OC, Zoelffel R and Sonntag H (2000):

Myocardial sequences of remifentanil in patients with coronary artery disease. Br. J. Anaesth.; 84(5): 578 – 83.

Knapp RJ, Malatynska E, Collins N, Fang L, Wang JY, Hruby VJ, Roeske WR and Yamamura HI (1995):

Molecular biology and pharmacology of cloned opioid receptors. FASEB Journal; 9: 516 – 525.

Kosterlitz HW (1985):

Opioid peptides and their receptors. Proceedings of the Royal Society of London; B225: 27 – 40.

Kryger MH, Yacoub O, Dosman J, et al (1976):

Effects of meperidine on occlusion pressure responses to hypercapnea and hypoxia with and without external inspiratory resistance. Am. Rev. Respir. Dis. 114: 333.

Kurz A, Go JC, Sessler DI, et al (1995):

Alfentanil slightly increases the sweating threshold and markedly reduces the vasoconstriction and shivering thresholds. Anesthesiology 83: 293.

Largent BL, et al (1987):

Structural determinations of sigma receptor affinity. Mol. Pharmacol. 32: 772.

Laslie FM, Tso S and Hurlbut DE (1982):

Differential appearance of opiate receptor subtypes in neonatal rat brain. Life Sciences; 31: 1393 – 1396.

Lazorthes Y, Verdie JC, Cauté B, Maranhao R and Tofani M (1988):

Intracerebroventricular morphinothrapy for control of cancer pain. *Progress in Pain Research*; 77: 395 – 405.

Lee EM (1997):

Pathogenesis and mechanisms of phantom pain. *Current Review of Pain*; 1: 310-319.

Lehmann A and Boldt J (2001):

Remifentanyl in cardiac surgery. *Anesth. Analg.*; 92(2): 205 – 206.

Liu P-W, Hsing C-H and Chu Y-C (1996):

Terbutaline inhalation suppresses fentanyl – induced coughing. *Can. J. Anaesth.* 43: 1216.

Lombard M-C and Besson JM (1989):

Attempts to gauge the relative importance of presynaptic and postsynaptic effects of morphine of the transmission of noxious messages in the dorsal horn of the rat spinal cord. *Pain*; 37: 335 – 345.

Lorenz IH, Kolbitsch C, Hormann C, Schocke M, Zschiegner F, Felber S and Benzer A (2000):

The effects of remifentanyl on cerebral capacity in awake volunteers. *Anesth. Analg.*; 90(3): 609 – 13.

Lowenstein E (1971):

“Morphine Anesthesia”: a prespective (editorial). *Anesthesiology* 35: 563.

Macdonald RI and Werz MA (1986):

Dynorphine A decreases voltage-dependent calcium conductance of mouse dorsal root ganglion neurons. *J. Physiol.* 377: 237.

Mansour A and Watson SJ (1993):

Anatomical distribution of opioid receptors in mammals: an overview. In: Hertz A, ed. Opioids I. Berlin: Springer – Verlag; 79 – 106.

Mao J, Price DD and Mayer DJ (1995):

Experimental monotherapy reduces the antinociceptive effects of morphine: implications for common intracellular mechanisms involved in morphine tolerance and neuropathic pain. *Pain*; 61: 353 – 364.

Marsh DF, Hatch DJ and Fitzgerald M (1997):

Opioid systems and the newborn. *Br. J. Anaesth.*; 79: 787 – 795.

Martin WR (1981):

Multiple opioid receptors. *Life Sci.* 128: 1547.

Matteo RS, Schwartz AE, Ornstein E, et al (1990):

Pharmacokinetics of sufentanil in the elderly surgical patient. *Can. J. Anaesth.* 37: 852.

Milde LN, Milde JH and Gallagher WJ (1989):

Cerebral effects of fentanyl in dogs. *Br. J. Anaesth.* 63: 710.

Mirenda J, Tabatabai M and Wong K (1988):

Delayed and prolonged rigidity greater than 24 hours following high-dose fentanyl anesthesia. *Anesthesiology* 69: 624.

Morgan DJ and Bray KM (1994):

Lean body mass as a predictor of drug dosage: Implication for drug therapy. *Clin. Pharmacokinet.* 26: 292.

Nestler EJ (1996):

Under siege: The brain on opiates. *Neuron* 16: 897.

Nestler EJ and Aghajanian GK (1997):

Molecular and cellular basis of addiction. *Science* 278: 58.

Ng HP, Chen FG, Yeong SM, Wong F and Chew P (2000):
Effect of remifentanyl compared with fentanyl on intraocular pressure after succinylcholine and tracheal intubation. *Br. J. Anaesth.*; 85(5): 785 – 7.

Olkkola KT, Hamunen K and Maunuksela EL (1995):
Clinical pharmacokinetics and pharmacodynamics of opioid analgesics in infants and children. *Clin. Pharmacokinet.* 28: 285.

Ouellet DMC (1997):
Pharmacodynamics and tolerance development during multiple intravenous bolus morphine administration in rats. *J. Pharmacol. Exp. Ther.* 281: 713.

Pasternak G, Simantov R and Snyder S (1976):
Characterization of an endogenous morphine-like factor (enkephalin) in mammalian brain. *Molecular Pharmacology*; 12: 504 – 513.

Paul D and Pasternak G (1988):
Differential blockade by naloxonazine of two μ opiate actions: analgesia and inhibition of gastrointestinal transit. *Eur. J. Pharmacol.* 149: 403.

Paul D, et al (1990):
Naloxone benzyldrazone (NalBzoH) analgesia. *J. Pharmacol. Exp. Ther.* 255: 769.

Philpin DM, et al (1981):
The use of H₁ and H₂ histamine antagonists with morphine anesthesia. A double blinded study. *Anesthesiology* 55: 292.

Philbin DM, Rosow CE, Schneider RC, et al (1990):
Fentanyl and sufentanil anesthesia revisited: How much is enough? *Anesthesiology* 73: 5.

Pitts MC, Palmore MM, Salmenpera MT, et al (1992):

Pilot study: Hemodynamic effects of intravenous GI87082B (GI) in patients undergoing elective surgery (Abstract). *Anesthesiology* 77: A101.

Pokela ML, Ryhänen P, Kiovisto ME, et al (1992):

Alfentanil-induced rigidity in newborn infants. *Anesth. Analg.* 75: 252.

Portenoy RK (1997):

Pain management and chemical dependency. *JAMA* 278: 592.

Radnay PA, et al (1984):

Common bile duct pressure changes after fentanyl, morphine, meperidine, butorphanol and naloxone. *Anesth. Analg.* 63: 441.

Reisine T and Pasternak G (1996):

Opioid analgesics and antagonists. In Harman JG et al. editor: Goodman & Gilman's the pharmacological basis of therapeutics, New York, McGraw-Hill.

Rey R (1993):

A history of pain, p164. Paris, La Decouverte.

Rius RA, Barg J, Bem WT, Coscia CJ and Loh YP (1991):

The prenatal developmental profile of expression of opioid peptides and receptors in the mouse brain. *Developmental Brain Research*; 58: 237 – 241.

Roering DL, Kotrly KJ, Vucins EJ, et al (1987):

First pass uptake of fentanyl, meperidine and morphine in the human lung. *Anesthesiology* 67: 466.

Romauldi P, Lesa G and Ferri S (1991):

Chronic opiate agonists down-regulate prodynorphine gene expression in rat brain. *Brain Res.* 563: 132.

Silbert BS, et al (1986):

The effects of diazepam on induction of anesthesia with alfentanil. *Anesth. Analg.* 65: 71.

Sinatra RS (1998):

Acute pain management and acute pain services. In: Cousins MJ; Bridenbaugh PO (eds.): *Neural Blockade in Clinical Anaesthesia and Management of Pain*, 3rd ed., Philadelphia, Lippincott-Raven, P. 793.

Stanley TH, Berman L, Green O, et al (1980):

Plasma catecholeamine and cortisol responses to fentanyl-oxygen anesthesia for coronary-artery operations. *Anesthesiology* 53: 250.

Stefano GB, Scharrer B, Smith EM, et al (1996):

Opioid and opiate immunoregulatory processes. *Crit. Rev. Immunol.* 16: 109.

Stein C, Millan MJ, Shippenberg TS, Peter K and Herz A (1989):

Peripheral opioid receptors mediating antinociception in inflammation. Evidence for involvement of mu, delta and kappa receptors. *Journal of Pharmacology and Experimental Therapeutics*; 248: 1269 – 1275.

Stein C, et al (1991):

Analgesic effect of intraarticular morphine after arthroscopic knee surgery. *N. Engl. J. Med.* 325: 1123.

Stein C (1995):

The control of pain in peripheral tissue by opioids. *New England Journal of Medicine*; 332: 1685 – 1690.

Steolting RK (1993):

Pharmacology and physiology in anesthetic practice. JB Lippincott, Philadelphia, 70-100.

Sung YF, Stulting RD, Beatie CD, et al (1994):

Intraocular pressure (IOP) effects of remifentanyl (R) (GI87084B) and alfentanil [abstract]. *Anesthesiology*; 81: A35.

Tabatabai M, Kitahata LM and Collins JG (1989):

Disruption of the rhythmic activity of the medullary inspiratory neurons and phrenic nerve by fentanyl and reversal by nalbuphine. *Anesthesiology* 70: 489.

Thorpe DH (1984):

Opiate structures and activity: A guide to understanding the receptor. *Anesth Analg* 63:143.

Tobias JD and Heideman RL (1991):

Primary central hyperventilation in a child with a brainstem glioma. Management with continuous intravenous fentanyl. *Pediatrics* 88: 818.

Wall PD and Melzack R (eds.) (1994):

Textbook of pain, 3rd ed., PP. 787-788, Edinburgh, Churchill-Livingstone.

Wang SC (1963):

Emetic and antiemetic drugs. In Root WS, Hoffman FG, editors: *Physiological pharmacology II (Part B)*, New York, Academic Press.

Warner DS, Hindman BJ, Todd MM, et al (1996):

Intracranial pressure and hemodynamic effects of remifentanyl versus alfentanil in patients undergoing supratentorial craniotomy. *Anesth. Analg.* 83: 348.

Westmoreland CL, Hoke JF, Sebel PS, et al (1993):

Pharmacokinetics of remifentanyl (GI87084B) and its major metabolite (GI90291) in patients undergoing elective inpatient surgery. *Anesthesiology*; 79: 893 – 903.

Woolf CJ (1995):

Somatic pain pathogenesis and prevention. *Br. J. Anaesth.*; 75: 169 – 176.

Woolf CJ, Bennett GJ, Doherty M and Dubner R (1998):

Towards a mechanism-based classification of pain. *Pain*, 77: 227-229.

Yaksh TL, Al-Rodhan NRF and Jensen TS (1988):

Sites of action of opiates in production of analgesia. In: Fields HL, Besson JM, eds. *Progress in Brain Research*. Amsterdam: elsevier; 371 – 394.

Yasuda K, Raynor K, Kong H, Breder C, Takeda J, Reisine T and Bell G (1993):

cloning and functional comparison of kappa and delta opioid receptors from mouse brain. *Proceedings of the National Academy of Sciences (USA)*; 90: 6736 – 6740.