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A Reference Source for Analgesia & Analgesics in Animals

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A Reference Source for Analgesia & Analgesics in Animals

Table of Contents

- [Preface](#)
 - [General](#)
 - [Amphibians and Reptiles](#)
 - [Avian](#)
 - [Bovine](#)
 - [Dogs and Cats](#)
 - [Equine](#)
 - [Ferrets](#)
 - [Fish/Crabs/Snails/Shrimp/Molluscs/Shell Fish](#)
 - [Goats](#)
 - [Guinea Pigs](#)
 - [Mice](#)
 - [Marine Mammals](#)
 - [Non Domestic/Wild/Exotic](#)
 - [Primates](#)
 - [Rabbits and Rodents](#)
 - [Rats](#)
 - [Sheep](#)
 - [Swine](#)
-

Preface

One of the major requirements of the Animal Welfare Act is to ensure that steps are taken to minimize pain and distress in animals insofar as allowed by the approved research protocol. Exceptions to this requirement must be scientifically justified by the investigator, in writing, and approved by the Institutional Animal Care and Use Committee (IACUC). (Section 13 (a)(3)). One of the methods used to accomplish this requirement is the provision of adequate veterinary care for the animals including the appropriate use of anesthetics, analgesics, tranquilizers or euthanasia.

The Animal Welfare Information Center (AWIC) was established by the 1985 amendments to the Act (Sect. 13(e)) and is required, by law, to provide specific information to the research community. As stated above, one of these requirements is minimizing pain or distress in the animals used in research when possible. This publication provides a list of published reference sources on analgesia and the use of analgesics in animals. While this publication is not meant to be a complete resource on the subject of analgesia and analgesics in animals it is hoped that it will be useful to those involved with animal research and will be of assistance to the investigators, veterinarians, and in the reduction of pain and distress to these animals.

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USDA, NAL, AWIC

General

BioSciences Information Service, (1992), **Analgesic Drugs: Pharmaceutical Studies**. Published Search. BioScience Information Service, Philadelphia, PA. Sponsored in part by National Technical Information Service, Springfield, VA. Jul. 1992, 250 citations.

- Booth, N.H., (1988), **Neuroleptanalgesics, narcotic analgesics, and analgesic antagonists.** *Veterinary Pharmacology and Therapeutics*. Edited by Nicholas H. Booth, Leslie E. McDonald, 6th ed. Ames Iowa: Iowa State University Press, p. 290-328. ISBN: 0813817390. Ref.
NAL Call no: SF915.J6 1988
Descriptors: laboratory animals, wild animals, domestic animals, drugs, antagonists.
- Boothe, D.; Tranquilli, W.; Radasch, R., (1998), **Overview of pain management options.** *Proceedings North American Veterinary Conference*. (Gainesville, FL): Eastern States Veterinary Association. 1992-1998, v. 12, p. 571-573. Meeting held Jan. 10-14, 1998, Orlando, FL. Incl. Ref.
NAL Call no: SF605.N672
Descriptors: pain management, options, overview.
- Calignano, A.; La-Rana, G.; Giuffrida, A.; Piomelli, D., (1998), **Control of pain initiation by endogenous cannabinoids.** *Nature*. London: Macmillan Magazines Ltd. Jul. 16, 1998, v. 394 (6690), p. 277-280. ISSN: 0028-0836.
NAL Call no: 472 N21
Descriptors: pain initiation, control.
- Close, B.; Banister, K.; Baumans, V.; Bernoth, E.M.; Bromage, N.; Bunyan, J.; Erhardt, W.; Flecknell, P.; Gregory, N.; Hackbarth, H.; Morton, D.; Warwick, C., (1996), **Recommendations for euthanasia of experimental animals: Part 1.** DGXI of the European Commission. *Laboratory Animals*. London: Royal Society of Medicine Services. 1996, Oct. v. 30 (4), p. 293-316. ISSN: 0023-6772.
NAL Call no: QL55.A1L3
Descriptors: experimental animals, euthanasia.
- Close, B.; Banister, K.; Baumans, V.; Bernoth, E.M.; Bromage, N.; Bunyan, J.; Erhardt, W.; Flecknell, P.; Gregory, N.; Hackbarth, H.; Morton, D.; Warwick, C., (1997), **Recommendations for euthanasia of experimental animals: Part 2.** DGXT of the European Commission. *Laboratory Animals*. London: Royal Society of Medicine Services. 1997, Jan. v. 31 (1), p. 1-32. ISSN: 0023-6772.
NAL Call no: QL55.A1L3
Descriptors: experimental animals, euthanasia, laboratory animals.
- Cooper, J.E., (1994), **Anesthesia and Analgesia.** *Proceedings North American Veterinary Conference*. Gainesville, FL: Eastern States Veterinary Association. 1992, 1994. p. 895-896. Meeting held Jan. 15-20, 1994, Orlando, FL. Ref.
NAL Call No: SF605.N672
Descriptors: pain, control, relief.
- Cote, E., (1998), **Over-the-counter human medications in small animals. II. Analgesic, respiratory, and dermatologic drugs.** *Compendium on continuing education for the practicing veterinarian*. Trenton, NJ: Veterinary Learning Systems. Jul. 1998, v. 20 (7), p. 791-808, 829. ISSN: 0193-1903.
NAL Call no: SF601.C66
Descriptors: over-the-counter-drugs, analgesics, respiratory, dermatologic.
- Davis, L.E., (1983), **Species differences in drug disposition as factors in alleviation of pain.** *Animal pain: Perception and alleviation*. Kitchell, R.L. and Erickson, H.H., eds. American Physiological Society, Bethesda, MD. 1983: i-x. p. 1-222, Chapter pagination: 161-178, ill.
NAL Call no: QP451.4.A54
Descriptors: alleviation of pain, species differences.
- De-Leon-Casasola, Oscar A.; Lema, Mark J., (1996), **Postoperative epidural opioid analgesia: What are the choices?** Roswell Park Cancer Inst., Buffalo, N.Y., *Anesthesia and Analgesia*. 1996, v. 83 (4), p. 867-875. Literature review. ISSN: 0003-2999.
Descriptors: postoperative analgesia, opioid.
- Eldor, J., (1995), **Combined-spinal-epidural-general anesthesia.** *Medical-Hypotheses*. 1995, v. 45 (1), p. 86-90.

ISSN: 0306-9877.

Descriptors: anesthesia, spinal-epidural, combined.

Flecknell, P.A.; Molony, V., (1997), **Pain and injury**. *Animal welfare*. Wallingford, Oxon, UK: CAB International, c1997. p. 63-73. ISBN: 0851991807.

NAL Call no: HV4711.A587 1997

Descriptors: animals, pain, trauma.

Flecknell, P.A.; Liles, J.H.; Wolliamson, H.A., (1990), **The use of lignocaine-prilocaine local anaesthetic cream for pain-free venepuncture in laboratory animals**. *Laboratory Animals*. London: Royal Society of Medicine Services. Apr. 1990, v. 24 (2), p. 142-146. ISSN: 0023-6772. Ref.

NAL Call no: QL55.A1L3

Descriptors: laboratory animals, local anaesthetics, ointments, lidocaine.

Flecknell, P.A., (1987), **Anaesthetic breathing circuits for small laboratory animals**. *Animal Technology*. Journal of the Institute of Animal Technology. Apr. 1987, v. 38 (1), p. 1-8. Ill. Ref. ISSN: 0264-4754.

NAL Call no: QL55.I5

Descriptors: laboratory animals, anaesthetics, breathing, techniques.

Flecknell, P.A., (1985), **The management of post-operative pain and distress in experimental animals**. *Animal Technology*. Journal of the Institute of Animal Technology. Nov. 1985, v. 36 (2), p. 97-103. ISSN: 0264-4754. Ref.

NAL Call no: QL55.I5

Descriptors: laboratory animals, pain, improvement, analgesics, anesthetics.

Flecknell, P.A., (1994), **Refinement of animal use - assessment and alleviation of pain and distress**. *Laboratory Animals*. London: Royal Society of Medicine Services. 1994, July, v. 28 (3), p. 222-231. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: pain, distress, assessment, alleviation, animals.

Flecknell, P. A., (1993), **Anaesthesia of animals for biomedical research**. *British Journal of Anaesthesia*. Dec. 1993, v. 71 (6), p. 885-894. ISSN: 0007-0912. Ref.

Descriptors: anaesthesia, methods, laboratory animals, anaesthetic administration, dosage.

Flecknell, P.A., (1993), **Anaesthesia and perioperative care**. *Methods in Enzymology*. 1993, v. 225, p. 16-33. ISSN: 0076-6879.

NAL Call no: QP601.M49

Descriptors: anaesthesia, administration, dosage, animals, surgery.

Gaynor, J.S., (1999), **Pain management: Ensuring a fair profit from a valuable service**. *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Group. Apr. 1999, v. 94 (4), p. 358-361. Incl. ref. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: pain management, profit, service.

Gleed, Robin; Seymor, Chris, (1999), *Manual of small animal anaesthesia and analgesia*. 2nd ed. Cheltenham: British Small Animal Veterinary Association. 1999, 312 p., ill. ISBN: 090521448X.

NAL Call no: SF914 B25 1999

Descriptors: small animal, anaesthesia, analgesia.

Hansen, B., (1996), **Epidural anesthesia and analgesia**. *Proceedings North American Veterinary Conference*. Gainesville, FL: Eastern States Veterinary Association. 1992-1996, v. 10, p. 429-431.

NAL Call no: SF605.N672

Descriptors: epidural, analgesia, anesthesia.

Hansen, B., (1996), **Analgesic therapy in the critical ill**. *Proceedings North American Veterinary Conference*. Gainesville, FL: Eastern States Veterinary Association. 1992-1996, v. 10, p. 427-428.

NAL Call no: SF605.N672

Descriptors: analgesia, therapy, critical ill.

Hardie, Elizabeth, M.; Kyles, Andrew E., (1995), **Pharmacological management of pain in the surgical oncology patient.** *Veterinary Clinics of North America Small Animal Practice.* 1995, v. 25 (1), p. 77-96. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: pain, surgical, oncology, management.

Heard, Darryl J., (1997), **Anesthesia and analgesia.** Wildlife & Zoological Medicine Service, College of Veterinary Medicine, University of Florida, Gainesville, FL. *Avian medicine and surgery.* W.B. Saunders Co., Philadelphia, London etc. 1997: i-xv, 1-1070, Chapter pagination: 807-827, ill. ISBN: 0721654460.

NAL Call no: SF994.A95 1997

Descriptors: anesthesia, analgesia.

Heard, Darryl J., (1993), **Principles and techniques of anesthesia and analgesia for exotic practice.** *Veterinary Clinics of North America Small Animal Practice.* 1993, v. 23 (6), p. 1301-1327. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: anesthesia, analgesia, principles, exotic practice.

Hellyer, P.W., (1996), **Analgesics on the market.** *Proceedings North American Veterinary Conference.* Gainesville, FL: Eastern States Veterinary Association. 1992-1996, v. 10, p. 6-7. Meeting held Jan. 13-17, 1996 Orlando, FL.

NAL Call no: SF605.N672

Descriptors: analgesics, market.

Isaacs, J.P., (1999), **Carprofen.** *Compendium on Continuing Education for the Practicing Veterinarian.* Trenton, NJ: Veterinary Learning Systems. Mar. 1999, v. 21 (3), p. 246-248. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: carprofen, analgesics.

Kohn, Dennis F., (1997), **Anesthesia and analgesia in laboratory animals.** *American College of Laboratory Animal Medicine series.* San Diego: Academic Press. c1997, xvii, 646 p. ill. ISBN: 0124175708.

NAL Call no: SF996.5.A54 1997

Descriptors: laboratory animals, analgesia, anesthesia.

Kyles, A. E., (1998), **Transdermal fentanyl.** *Compendium on Continuing Education for the Practicing Veterinarian.* Trenton, NJ: Veterinary Learning Systems. Jun. 1998, v. 20 (6), p. 721-722, 724-726. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: skin, analgesia, transdermal fentanyl.

Lipa, S.M.; Kavaliers, M., (1990), **Sex differences in the inhibitory effects of the NMDA antagonist, MK-801, on morphine and stress-induced analgesia.** *Brain Research Bulletin.* v. 24 (4), 1990, p. 627-630, ill. ISSN: 0361-9230.

Descriptors: sex differences, nmda antagonists, morphine, analgesia.

Looney, A.L., (1998), **Neurophysiology of pain and acupuncture analgesia.** *Proceedings North American Veterinary Conference.* Gainesville, FL: Eastern States Veterinary Association. 1992-1998, v. 12, p. 3-7. Meeting held Jan. 10-14, 1998, Orlando, FL.

NAL Call no: SF605.N672

Descriptors: pain, neurophysiology, acupuncture.

Mason, D.E., (1995), **Analgesia for trauma and surgery patients, I.** *Proceedings North American Veterinary Conference.* Gainesville, FL: Eastern States Veterinary Association. 1992-1995, v. 9, p. 14. Meeting held Jan. 14-18, 1995, Orlando, FL.

NAL Call no: SF605.N672

Descriptors: trauma, surgery, analgesia.

Mason, D.E., (1995), **Analgesia for trauma and surgery patients, II.** *Proceedings North American Veterinary Conference*. Gainesville, FL: Eastern States Veterinary Association. 1992-1995, v. 9, p. 15.

NAL Call no: SF605.N672

Descriptors: trauma, surgery, analgesia.

Matthews, Nora S., (1999), **Clinical anesthesia.** *The Veterinary Clinics of North America Small Animal Practice*. ISSN: 0195-5616, v. 29, no. 3. Philadelphia, W.B. Saunders. c1999, viii, p. 611-835, ill.

NAL Call no: SF601.V523 v.29 no.3

Descriptors: clinical anesthesia, pain.

Moore, P.F.; Larsson, D.L.; Otterness, I.G.; Weismann, A.; Kadin, S.B.; Sweeney, F.J.; Eskra, J.D.; Nagahisa, A.; Sakakibera, M.; Carty, T.J., (1996), **Tenidap, a structurally novel drug for the treatment of arthritis: Antiinflammatory and analgesic properties.** Central Research Div., Pfizer, Inc., Eastern Point Road, Groton, CT 06340. *Inflammation Research*. 1996, v. 45 (2), p. 54-61. ISSN: 1023-3830.

NAL Call no: RS122.A3

Descriptors: tenidap, analgesia, antiinflammatory.

Otto, K.A.; Short, C.E., (1998), **Pharmaceutical control of pain in large animals.** *Applied Animal Behavior Science*. Amsterdam, N.Y.: Elsevier. 1984-Aug. 1998, v. 59 (1-3), p. 157-169. In the special issue: *Ethics, ethology and animal welfare*, edited by F.W. Quimby. ISSN: 0168-1591.

NAL Call no: QL750.A6

Descriptors: pain, control, large animals, drugs.

Pan, P.M.; Huang, C.T.; Wei, T.T.; Mok, M.S., (1998), **Enhancement of analgesic effect of intrathecal neostigmine and clonidine on bupivacaine spinal anesthesia.** *Regional Anesthesia and Pain Medicine*. Jan. 1998, v. 23 (1), p. 49-56.

Descriptors: analgesia, effect, enhancement, spinal anesthesia.

Papich, M.G, (1997), **Principles of analgesic drug therapy.** *Seminars in Veterinary Medicine and Surgery Small Animal*. Philadelphia, PA.: W.B. Saunders Co. May 1997, v. 12 (2), p. 80-93. In the special issue: *Pain*. Edited by Bernie Hansen. ISSN: 0882-0511.

NAL Call no: SF911.S45

Descriptors: analgesic drugs, therapy, principles.

Pascoe, P., (1997), **Local and regional anesthesia and analgesia.** *Seminars in Veterinary Medicine and Surgery Small Animal*. Philadelphia, PA: W.B. Saunders Co. May 1997, v.12 (2), p. 94-105. ISSN: 0882-0511.

NAL Call no: SF911.S45

Descriptors: local, regional, anesthesia, analgesia.

Raffe, M., (1997), **Recent advances in our understanding of pain: How should they affect management.** *Seminars in Veterinary Medicine and Surgery Small Animal*. Philadelphia, PA: W.B. Saunders Co. May 1997, v. 12 (2), p. 75-79. In the special issue: *Pain*, edited by Bernie Hansen. ISSN: 0882-0511.

NAL Call no: SF911.S45

Descriptors: understanding pain, management, advances.

Read, M., (2002), **Long Acting Neuroleptic Drugs.** *Zoological Restraint and Anesthesia*, edited by D. Heard.

http://www.ivis.org/special_books/Heard/read/chapter_frm.asp?LA=1

Sackman, Jill E., (1997), **Pain and its management.** *Veterinary Clinics of North America Small Animal Practice*. 1997, v. 27 (6), p. 1487-1504. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: pain, management.

Sawyer, D.C., (1998), **Pain control in small animal patients.** *Applied Animal Behavior Science*. Amsterdam, N.Y.: Elsevier. 1984-Aug. 1998, v. 59 (1/3), p. 135-146. In the special issue: *Ethics, ethology and animal welfare*. Edited by

F.W. Quimbly. ISSN: 0168-1591.
NAL Call no: QL750.A6
Descriptors: pain control, small animals.

Short, C.E., (1994), **Pain and its control in small animals - diagnostic, medical, or minor surgery management.** *Proceedings North American Veterinary Conference*. Gainesville, FL: Eastern States Veterinary Association. 1992-1994, p. 35-41. Meeting held Jan. 15-20, 1994, Orlando, FL.
NAL Call no: SF605.N672
Descriptors: pain, control, small animals, management.

Short, C.E., (1998), **Fundamentals of pain perception in animals.** *Applied Animal Behavior Science*. Amsterdam, N.Y.: Elsevier. 1984-Aug. 1998, v. 59 (1-3), p. 125-133. In the special issue: *Ethics, ethology and animal welfare*. Edited by F.W. Quimbly. ISSN: 0168-1591.
NAL Call no: QL750.A6
Descriptors: pain perception in animals, fundamentals.

Simkins, M.D.; Shadiack, A.M.; Burns, C.A.; Molino, L.J.; Amaratunga, D.; Hall, J.; Rogers, K.E.; Clark, L.P., (1998), **Evaluation of post-operative analgesics in a model of neuropathic pain.** *Contemporary Topics in Laboratory Animal Science*. Memphis, TN: American Association for Laboratory Animal Science. Nov. 1998, v. 37 (6), p. 61-63. ISSN: 1060-0558.
NAL Call no: SF405.5.A23
Descriptors: post-operative, analgesics, evaluation, pain.

Strauss, E., (1998), **New nonopioid painkiller shows promise in animal tests.** *Science*. Washington, DC: American Association for the Advancement of Science. Jan. 2, 1998, v. 279 (5347), p. 32-33. ISSN: 0036-8075.
NAL Call no: 470 Sci2
Descriptors: nonopioid, pain, animal tests.

Thurmon, J.C.; Sarr, R.; Denhart, J.W., (1999), **Xylazine sedation antagonized with tolazoline.** *Compendium on the Continuing Education for the Practicing Veterinarian*. Trenton, N.J.: Veterinary Learning Systems. Jan. 1999, v. 21 (1, Suppl.), p. S11-S20. Ref. ISSN: 0193-1903.
NAL Call no: SF601.C66
Descriptors: xylazine sedation, antagonized, tolazoline.

Thurmon, John C.; Tranquilli, William J.; Benson, G. John, (1999), *Essentials of small animal anesthesia and analgesia*. Philadelphia: Lippincott, Williams & Williams. c1999, viii, 580 p., ill. ISBN: 0683301071.
NAL Call no: SF914 E77 1999
Descriptors: small animals, anesthesia, analgesia.

Tranquilli, William; Grimm, K.; Lamont, L., (2000), *Pain management for the small animal practitioner*. ISBN: Book 1893441075; Book & CD ROM 1893441164. Teton New Media, P.O. Box 4833, 125 South King Street, Jackson, WY 83001. <http://www.tetonnm.com>
Descriptors: pain management, small animals.

Tricklebank, M.D.; Curzon, G. (eds.), (1984), *Stress-induced analgesia*. John Wiley & Sons, Chichester, N.Y. 1984: i-x, 1-194. III.
Descriptors: chordates, vertebrates, mammals.

Whelan, G.; Flecknell, P.A., (1992), **The assessment of depth of anaesthesia in animals and man.** *Laboratory Animals*. London: Royal Society of Medicine Services. Jul. 1992, v. 26 (3), p. 153-162. ISSN: 0023-6772.
NAL Call no: QL55.A1L3
Descriptors: laboratory animals, anaesthesia, man.

Wofle, T.L.; Liebeskind, J.C., (1983), **Stimulation-produced analgesia.** *Animal pain: Perception and alleviation*. Edited by Kitchell, R.L. and Erickson, H.H., American Physiological Society, Bethesda, MD. 1983: i-x, 1-221, Chapter

pagination: 107-115.
NAL Call no: QP451.4.A54
Descriptors: analgesia, stimulation.

Return to: [Title Page](#) / [Table of Contents](#)

Amphibians & Reptiles

Aguilar, N.G.; Palcios, C.A.M.; Ross, L.G., (1999), **Controlled anaesthesia of *Rana catesbeiana* (Shaw) and *Rana pipiens* (Schreber) using xylocaine delivered by spray.** *Aquaculture Research*. v. 30 (4), p. 309-311. ISSN: 1355-557X.

NAL Call no: SH1.F8

Descriptors: frog, anesthesia.

Arena, P.C.; Richardson, K.C.; Cullen, L.K., (1988), **Anaesthesia in two species of large Australian skink.** *Veterinary Record*. Journal of the British Veterinary Association. 1988, v. 123 (6), p. 155-158. ISSN: 0042-4900. Ref.

NAL Call no: 41.8 V641

Descriptors: lizards, Sauria, reptiles, anaesthesia.

Arena, P.C.; Richardson, K.C., (1990), **The relief of pain in cold-blooded vertebrates.** *Australian Council for the Care of Animals used in Research and Teaching, ACCART-News*. 1990, v. 3 (1), p. 1-4. Ref.

NAL Call no: SF405.5 A3

Descriptors: analgesics, anaesthesia, pain, cold-blooded vertebrates.

Brenner, G.M.; Klopp, A.J.; Deason, L.L.; Stevens, C.W., (1994), **Analgesic potency of alpha andrenergic agents after systemic administration in amphibians.** *Journal of Pharmacology and Experimental Therapeutics*. 1994, v. 270 (2), p. 540-545. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesia, amphibians, alpha andrenergic agents.

Bush, M., (1990), **Anesthesia of amphibians and reptiles.** 1990 Forum, American College of Laboratory Medicine, Columbia Inn, Columbia, MD. May 3-6, 1990, p. 103-105.

NAL Call no: SF914.A53 1990

Descriptors: anesthesia, amphibians, reptiles.

Downes, Hall; Koop, Dennis R.; Klopfenstein, Beth; Lessov, Nickola, (1999), **Retention of nociceptor responses during deep barbiturate anesthesia in frogs.** *Comparative Biochemistry and Physiology Comparative Pharmacology Toxicology and Endocrinology*. Oct. 1999, v. 124 (2), p. 203-210. ISSN: 0742-8413.

NAL Call no: QP901.C6

Descriptors: frogs, barbiturate anesthesia, responses.

Firestone, Susan; Firestone, Leonard L.; Ferguson, Carolyn; Blanck, Damian, (1993), **Staurosporine, a protein kinase C inhibitor, decreases the general anesthetic requirement in *Rana pipiens* tadpoles.** *Anesthesia and Analgesia*. 1993, v. 77 (5), p. 1026-1030. ISSN: 0003-2999.

Descriptors: *Rana pipiens*, tadpoles, anesthetic, staurosporine.

Harvey, Clark C., (1993), **Midazolam fails to sedate painted turtles, *Chrysemys picta*.** *Bulletin of the Association of Amphibian and Reptilian Veterinarians*. 1993, v. 3 (1), p. 7-8. Ref.

Descriptors: injectable anaesthetics, benzimidazole, anaesthesia, turtles.

Machin, Karin L., (1999), **Amphibian pain and analgesia**. *Journal of Zoo and Wildlife Medicine*. v. 30 (1), p. 2-10, March 1999, ill. ISSN: 1042-7260.

NAL Call no: SF601.J6

Descriptors: amphibian, pain, analgesia.

Malley, D., (1997), **Reptile anaesthesia and the practicing veterinarian**. *In Practice*. London: British Veterinary Association. 1979-Jul./Aug. 1997, v. 19 (7), p. 351-368. ISSN: 0263-841X. Ref.

NAL Call no: SF601.I4

Descriptors: reptiles, anesthesia, intravenous injection, inhaled anesthetics.

Okabe, K.; Natsume, M., (1994), **Total synthesis of a frog poison, (plus or minus), epibatadine, a potent non-opioid analgesic**. *Chemical and Pharmaceutical Bulletin*. Tokyo, 1994, v. 42 (7), p. 1432-1436. ISSN: 0009-2363.

NAL Call no: RM1.C5

Descriptors: non-opioid analgesic, frog poison.

Pezalia, P.D., (1983), **Morphine-induced analgesia and explosive motor behavior in an amphibian**. *Brain Research*. 1983, v. 273 (2), p. 297-305. ISSN: 0006-8993.

NAL Call no: Film S-1779

Descriptors: amphibian, morphine analgesia, effects.

Raymond, Stephen A., (1992), **Subblocking concentrations of local anesthetics: Effects on impulse generation and conduction in single myelinated sciatic nerve axons in frog**. *Anesthesia and Analgesia*. 1992, v. 75 (6), p. 906-921. ISSN: 0003-2999.

Descriptors: amphibians, local anesthetics, frog.

Schaeffer, Dorcas O.; Kleinow, Kevin M.; Krulish, Lee, (1992), **The care and use of amphibians, reptiles, and fish in research**. *Scientist Center for Animal Welfare*. 1992, vii, 196 p. ill. Ref. Proceedings from a SCAW/LSUSVM sponsored conference, Apr. 8-9, 1991, New Orleans, LA.

NAL Call no: SF406.C35 1992

Descriptors: amphibians, reptiles, fish, laboratory animals.

Stevens, C.W.; Rothe, K.S., (1997), **Supraspinal administration of opioids with selectivity for mu, delta and Kappa opioid receptors produces analgesia in amphibians**. *European Journal of Pharmacology*. 1997, v. 331 (1), p. 15-21. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: supraspinal opioids, analgesia, amphibians.

Stevens, C.W.; Klopp, A.J.; Facello, J.A., (1994), **Analgesic potency of mu and kappa opioids after systemic administration in amphibians**. *Journal of Pharmacology and Experimental Therapeutics*. 1994, v. 269 (3), p. 1086-1093. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesia, potency, opioids, amphibians.

Stevens, C.W., (1988), **Opioid antinociception in amphibians**. *Brain Research Bulletin*. 1988, v. 21 (6), p. 959-962. Descriptors: analgesia, amphibians, review.

Stevens, C.W.; Zutphen, L.F.M. van; Balls, M., (1997), **An alternative model for testing opioid analgesics and pain research using amphibians**. *Animal Alternatives, Welfare and Ethics*. Proceedings 2nd World Congress, Utrecht, The Netherlands, 20-24 Oct. 1996. 1997, 247-251 p. Ref. Elsevier Science Publishers, Amsterdam. ISBN: 0444824243.

NAL Call no: QL1.D48 v. 27

Descriptors: alternative model, pain, amphibians, analgesics.

Stevens, Craig W.; Kirkendall, Kenan, (1993), **Time course and magnitude of tolerance to the analgesic effects of**

systemic morphine in amphibians. *Life Sciences*. 1993, v. 52 (15), p. 111-116. ISSN: 0024-3205.
NAL Call no: 442.8 L62

Descriptors: amphibians, tolerance, morphine.

Stevens, Craig W.; Sangha, Soni; Ogg, Brian G., (1995), **Analgesia produced by immobilization stress and an enkephalinase inhibitor in amphibians.** *Pharmacology Biochemistry and Behavior*. 1995, v. 51 (4), p. 675-680. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: amphibians, analgesia, stress.

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NAL Call no: 396.8 J82

Descriptors: analgesic potency, mu, delta and kappa opioids, amphibians.

Stevens, Craig W.; Brenner, George M., (1996), **Spinal administration of adrenergic agents produces analgesia in amphibians.** *European Journal of Pharmacology*. 1996, v. 316 (2-3), p. 205-210. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: analgesia, amphibians, spinal, adrenergic agents.

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NAL Call no: 470 Sci2.

Descriptors: pain, nonopioid, animals.

Suckow, Mark A.; Terril, Lizabeth A.; Grigdesby, Cynthia F.; March, Phillip A., (1999), **Evaluation of hypothermia-induced analgesia and influence of opioid antagonists in leopard frogs (*Rana pipiens*).** *Pharmacology Biochemistry and Behavior*. May, 1999, v. 63 (1), p. 39-43. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: frogs, analgesia, opioids, hypothermia.

Terril-Robb, L.A.; Suckow, M.A.; Grigdesby, C.F., (1996), **Evaluation of the analgesic effects of butorphanol tartrate, xylazine hydrochloride, and flunixin meglumine in leopard frogs (*Rana pipiens*).** *Contemporary Topics in Laboratory Animal Science (USA)*. May 1996, v. 35 (3), p. 54-56. Ref. ISSN: 1060-0558.

NAL Call no: SF405.5.A23

Descriptors: analgesic effects, xylazine, flunixin, frogs.

Willenbring, Stan; Stevens, Craig W., (1997), **Spinal mu, delta and kappa opioids alter chemical, mechanical and thermal sensitivities in amphibians.** *Life Sciences*. Oct. 24, 1997, v. 61 (22), p. 2167-2176. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: amphibians, opioids, effects.

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NAL Call no: 442.8 L62

Descriptors: amphibians, opioid, adrenergics, effects.

Return to: [Title Page](#) / [Table of Contents](#)

Avian

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Descriptors: chickens, medetomidine, fentanyl, combination.
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NAL Call no: 41.8 AC83
Descriptors: injectable anaesthetics, dosage, ketamine, peafowl.
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NAL Call no: 410 Z73
Descriptors: birds, avian, analgesics.
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NAL Call no: QL55.I5
Descriptors: anaesthesia, analgesia, drug combinations, avian species.
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NAL Call no: SF914.A53 1990
Descriptors: birds, laboratory animals, anesthesia.
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NAL Call no: 410 J825
Descriptors: avian, chemical irritants, prostaglandin, analgesics.
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NAL Call no: SF996.Z66 1999
Descriptors: birds, avian, analgesia.
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Descriptors: birds, analgesia, avian.
- Concannon, K.Y.; Dodam, J.R.; Hellyer, P.W., (1995), **Influence of a mu- and kappa-opioid agonist on isoflurane minimal anesthetic concentration in chickens.** *American Journal of Veterinary Research*. 1995, v. 56 (6), p. 806-811. Ref. ISSN: 0002-9645.
NAL Call no: 41.8 Am3A
Descriptors: chickens, opium alkaloids, analgesics, drug combinations.
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NAL Call no: 41.8 V641

Descriptors: birds, steroid anaesthetic.

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NAL Call no: 410 Z73

Descriptors: isoflurane, butorphanol, flunixin, Psittiformes.

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NAL Call no: SF911.V43

Descriptors: anaesthesia, inhaled, isoflurane, cockatoos.

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NAL Call no: SF911.V43

Descriptors: analgesia, cockatoos, butorphanol.

Dolphin, R.E., (1978), **Anesthesia in companion birds.** *American Association of Zoo Veterinarians Annual Proceedings.* 1977 (1978?): p. 61-62. ISSN: 0095-0610.

NAL Call no: SF605.A4

Descriptors: anesthesia, companion birds.

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NAL Call no: QP351.N3

Descriptors: chicken, analgesia.

Gentle, M.J.; Hocking, P.M.; Bernard, R.; Dunn, L.N., (1999), **Evaluation of intraarticular opioid analgesia for the relief of articular pain in the domestic fowl.** *Pharmacology Biochemistry and Behavior.* Jun. 1999, v. 63 (2), p. 339-343. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: articular pain, domestic fowl, opioid.

Gentle, M.J., (1992), **Pain in birds.** *Animal Welfare.* (1992), v. 1 (4), p. 235-247. Ref. ISSN: 0962-7286. Ref.

NAL Call no: HV4701.A557

Descriptors: birds, animal welfare, pain.

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NAL Call no: 41.8 AU72

Descriptors: analgesia, chickens, beak trimming.

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Descriptors: pigeons, fentanyl, morphine treatment.

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NAL Call no: SF994.A95 1997

Descriptors: avian, anesthesia, analgesia.

Hocking, P.M.; Gentle, M.J.; Bernard, R.; Dunn, L.N., (1997), **Evaluation of a protocol for determining the effectiveness of pretreatment with local analgesics for reducing experimentally induced articular pain in domestic fowl.** *Research in Veterinary Science*. Nov.-Dec. 1997, v. 63 (3), p. 263-267. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: local analgesics, pretreatment, domestic fowl, articular pain.

Holt, P.E., (1977), **The use of a steroid anaesthetic in a long-eared owl (*Asio otus*).** *Veterinary Record*. Journal of the British Veterinary Association. 1977, v. 101 (6), p. 118. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: anaesthesia, owls, Strigiformes.

Hughes, Richard, A.; Baker, Michael, (1995), **Baseline performance as a determinant of morphine hypo- and hyperalgesia in domestic fowl.** *Experimental and Clinical Psychopharmacology*. 1995, v. 3 (1), p. 3-8. ISSN: 1064-1297.

Descriptors: morphine, hypo and hyperalgesia, domestic fowl.

Hughes, R.A., (1990), **Strain-dependent morphine-induced analgesic and hyperalgesic effects on thermal nociception in domestic fowl (*Gallus gallus*).** *Behavioral Neuroscience*. 1990, v. 104 (4), p. 619-624. ISSN: 0735-7044.

NAL Call no: QP351.B45

Descriptors: naloxone, pain perception, heat, fowl.

Hughes, R.A., (1990), **Codeine analgesic and morphine hyperalgesic effects on thermal nociception in domestic fowl.** *Pharmacology Biochemistry and Behavior*. 1990, v. 35 (3), p. 567-570.

NAL Call no: QP901.P4

Descriptors: morphine, heat, pain perception, analgesia, fowl.

Kalpravidh, M., (1991), **Use of medetomidine as a preanaesthetic in birds.** *Journal of Veterinary Anaesthesia*.

Special supplement, p. 245-248: Proceedings of the 4th International Congress of Veterinary Anaesthesia, Utrecht, Netherlands, 25-31 Aug. 1991. Ref. ISSN: 0950-7817.

Descriptors: poultry, ketamine, medetomidine, injectable anaesthetics.

Machin, K.L.; Caulkett, N.A., (1998), **Investigation of injectable anesthetic agents in mallard ducks (*Anas platyrhynchos*): A descriptive study.** *Journal of Avian Medicine and Surgery*. 1998, v. 12 (4), p. 255-262. Ref.

NAL Call no: SF994.J6

Descriptors: anesthesia, ducks, intravenous.

McGeown, D.; Danbury, T.C.; Waterman-Pearson, A.E.; Kestin, S.C., (1999), **Effect of carprofen on lameness in broiler chickens.** *Veterinary Record*. Journal of the British Veterinary Association. 1999, v. 144 (24), p. 668-671. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: carprofen, chickens, lameness, analgesia.

McGrath, C.J.; Lee, J.C.; Campbell, V.L., (1984), **Dose-response anesthetic effects of ketamine in the chicken.** *American Journal of Veterinary Research*. 1984, v. 45 (3), p. 531-534. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: chicken, ketamine, dose response.

Mohammed, F.K.; Amin, A.J.; Basher, H.A., (1997), **Medetomidine sedation and medetomidine-ketamine anaesthesia in chickens.** *Iraq Journal of Veterinary Sciences*. 1997, v. 10 (1), p. 1-7. Ref.

Descriptors: analgesics, drug combinations, chickens.

Paul-Murphy, J.R.; Brunson, D.B.; Miletic, V., (1999), **Analgesic effects of butorphanol and bupranorphine in**

conscious African grey parrots (*Psittacus erithacus erithacus* and *Psittacus erithacus timneh*). *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Oct. 1999, v. 60 (10), p. 1218-1221. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: analgesics, African grey parrots.

Paul-Murphy, J.R.; Brunson, D.B.; Miletic, V., (1999), **A technique for evaluating analgesia in conscious perching birds.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Oct. 1999, v. 60 (10), p. 1213-1217. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: analgesia evaluation, conscious perching birds.

Paul-Murphy, J.; Marx, K.L.; Roston, M.A., (1998), **Addressing pain in the avian patient.** *Proceedings of the 19th Annual Conference on Avian Medicine and Surgery*. Mid-Atlantic States Association of Avian Veterinarians, Lancaster, PA. 26-28 Apr., 1998, p. 109-112. Ref.

Descriptors: pain, analgesia, drugs, birds.

Picker, M.; Dykstra, L.A., (1988), **Differential effects of opioid and nonopioid analgesics on conditional discriminations in pigeons.** *Psychopharmacology*. 1988, v. 94 (3), p. 405-411.

Descriptors: analgesics, pigeons, discrimination learning.

Redig, P.T.; Larson, A.A.; Duke, G.E., (1984), **Response of great horned owls given the optical isomers of ketamine.** *American Journal of Veterinary Research*. 1984, v. 45 (1), p. 125-127. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: ketamine, great horned owls, response, anaesthesia.

Reim, D.A.; Middleton, C.C., (1995), **Use of butorphanol as an anesthetic adjunct in turkeys.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Dec. 1995, v. 45 (6), p. 696-698. ISSN: 0023-6764.

NAL Call no: 310.9 P94

Descriptors: butorphanol, anesthetic, turkeys.

Roder, Joseph D.; Shen, Ying; Sangiah, Subbiah, (1996), **The effects of verapamil and lidocaine on the duration of propofol and xylazine-ketamine anesthesia in broiler chickens.** *Veterinary and Human Toxicology*. 1996, v. 38 (3), p. 181-183. ISSN: 0145-6296.

NAL Call no: SF601.A47

Descriptors: anesthesia, broiler chickens.

Shindala, M.K., (1999), **Anaesthetic effect of ketamine and ketamine with diazepam in chickens.** *Iraqi Journal of Veterinary Sciences*. 1999, v. 12 (2), p. 261-268. Ref.

Descriptors: ketamine, diazepam, combination, chickens, anaesthetic.

Sufka, K.J.; Hughes, R.A., (1990), **Dose and temporal parameters of morphine induced hyperalgesia in domestic fowl.** *Physiology and Behavior*. Elmsford, N.Y.: Pergamon Press. Feb. 1990, v. 47 (2), p. 385-387. ISSN: 0031-9384.

NAL Call no: QP1.P4

Descriptors: morphine, dose, hyperalgesia, domestic fowl.

Warncke, G., (1992), **Possibilities for analgesia in birds. A review.** *Tierlaboratorium*. 1992, No. 15, p. 67-82. Ref. ISSN: 0179-0862.

Language: German.

NAL Call no: QL55.Z46

Descriptors: anaesthesia, analgesics, birds, injectable, inhaled.

Wheler, C., (1993), **Avian anesthetics, analgesics and tranquilizers.** *Seminars in Avian and Exotic Pet Medicine*. v. 2 (1), Jan. 1993, p. 7-12, ill. ISSN: 1055-937x.

NAL Call no: SF994.2 A1S36

Descriptors: avian, anesthetics, analgesics, tranquilizers.

Wylie, L.M.; Gentle, M.J., (1998), **Feeding-induced tonic pain suppression in the chicken: Reversal by naloxone.** *Physiology and Behavior*. Apr. 1998, v. 64 (1), p. 27-30. ISSN: 0031-9384.

NAL Call no: QP1.P4

Descriptors: pain suppression, chicken, naloxone, reversal.

Return to: [Title Page](#) / [Table of Contents](#)

Bovine

Amarpal, H.P. Aithal; Singh, G.R.; Pawde, A.M.; Sharma, A.K., (1997), **Epidural xylazine and ketamine for hind quarter analgesia in cow calves.** *Indian Journal of Animal Sciences*. 1997, v. 67 (7), p. 587-588. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: epidural xylazine, ketamine, hind quarter analgesia, cow calves.

DeGraves, F.J.; Anderson, K.L., (1993), **Ibuprofen treatment of endotoxin-induced mastitis in cows.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jul. 1993, v. 54 (7), p. 1128-1132. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: ibuprofen, mastitis, dairy cows.

Jones, R.S., (1995), **Anesthesia in cattle: II. Regional and local analgesia.** University of Liverpool, P.O. Box 147, Liverpool, L69 3BX, UK. *Bovine Practitioner*. 1995, v. 0 (29), p. 13-21. ISSN: 0524-1685.

NAL Call no: SF779.5.A1B6

Descriptors: anesthesia, cattle, regional and local analgesia.

Kumar, D. Dilip; Muralikrishna, B.V., (1998), **Clinical effects of triflupromazine and detomidine in deoni calves: A comparative study.** *Indian Veterinary Journal*. Mar. 1998, v. 75 (3), p. 241-242. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: clinical effects, triflupromazine, detomidine, deoni calves.

Lin, H.C.; Trachte, E.A.; DeGraves, F.J.; Rodgerson, D.H.; Steiss, J.E.; Carson, R.L., (1998), **Evaluation of analgesia induced by epidural administration of medetomidine to cows.** *American Journal of Veterinary Research*.

Schaumburg, IL: American Veterinary Medical Association. Feb. 1998, v. 59 (2), p. 162-167. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: analgesia, epidural, medetomidine, cows.

Machado, F.L.C. Pinheiro; Hurnik, J.F.; Burton, J.H., (1997), **The effect of amniotic fluid ingestion on the nociception of cows.** *Psychology and Behavior*. Dec. 1997, v. 62 (6), p. 1339-1344. ISSN: 0031-9384.

NAL Call no: QP1.P4

Descriptors: amniotic fluid ingestion, effect, nociception, cows.

Machado, F.L.C. Pinheiro; Hurnik, J.F.; Ewing, K.K., (1998), **A thermal threshold assay to measure the nociceptive response to morphine sulphate in cattle.** *Canadian Journal of Veterinary Research*. July 1998, v. 62 (3), p. 218-223. ISSN: 0830-9000.

NAL Call no: SF601.C24

Descriptors: nociceptive response, morphine, cattle.

McMeekan, C.M.; Stafford, K.J.; Mellor, D.J.; Bruce, R.A.; Ward, R.N.; Gregory, N.G., (1998), **Effects of regional analgesia and/or a non-steroidal anti-inflammatory analgesic on the acute cortisol response to dehorning in calves.** *Research in Veterinary Science*. Mar.-Apr. 1998, v. 64 (2), p. 147-150. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: regional analgesia, anti-inflammatory analgesia, effects, cortisol, calves.

Mulay, B.A.; Mantri, M.B.; Deshpande, K.S., (1983), **Comparative study on accentuation of regional analgesia by addition of different adjuvants in bovine (local anesthetics).** *Indian Journal of Veterinary Surgery*. Pantnagar, Nainital (U.P.): Indian Society for Veterinary Surgery. Jan. 1983, v. 4 (1), p. 21-24.

NAL Call no: SF604.I45

Descriptors: regional analgesia, adjuvants, bovine.

Patel, B.K.; Parasania, R.R.; Kelawala, N.H.; Parikh, P.V.; Shah, D.A., (1996), **Caudal epidural analgesia induced by xylazine in dairy cattle.** *Indian Journal of Veterinary Surgery*. 1996, v. 17 (1), p. 28-30. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: caudal epidural analgesia, xylazine, dairy cattle.

Powers, J.F., (1985), **Butorphanol tartarate analgesia in a bovine animal.** *Proceedings of the Annual Convention of the American Association of Bovine Practitioners*. Stillwater, OK: The Association. 1985 (pub 1986), (18th), p. 158-159.

NAL Call no: SF961.A5

Descriptors: analgesia, bovine, butorphanol.

Prado, Maria E.; Streeter, Robert N.; Mandsager, Ronald E.; Shawley, Richard V.; Claypool, P.L., (1999), **Pharmacologic effects of epidural versus intramuscular administration of detomidine in cattle.** *American Journal of Veterinary Research*. Oct. 1999, v. 60 (10), p. 1242-1247. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: effects, epidural, intrmuscular, detomidine, cattle.

Sharma, S.K.; Misra, S.S.; Varshney, A.C., (1998), **Evaluation of chloral hydrate anaesthesia in neonatal calves.** *Indian Veterinary Medical Journal*. Mar.1998, v. 22 (1), p. 69-72. ISSN: 0250-5266.

NAL Call no: SF601.I45

Descriptors: chloral hydrate, anesthesia, neonatal calves.

Tiwari, S.K.; Mishra, U.K.; Mishra, O.P., (1998), **Evaluation of epidural detomidine with and without lignocaine and its reversal by atipamezole in sahiwal calves.** *Indian Journal of Animal Sciences*. Nov. 1998, v. 68 (11), p. 1143-1146. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: epidural detomidine, reversal, sahiwal calves.

Raidurg, Ravi; Ranganath, B.N.; Srinivas, C.L.; Jayadevappa, S.M., (1995), **Acid-base and blood gas studies after xylazine epidural analgesia in calves.** *Indian Journal of Veterinary Surgery*. 1995, v.16 (2), p. 93-96. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: blood gas studies, xylazine, analgesia, calves.

Roe, J.M., (1986), **Bovine paravertebral analgesia: Radiographic analysis and suggested method for improvement.** *Veterinary Record*. London: British Veterinary Association. Sept. 6, 1986, v. 119 (10), p. 236-238, ill. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: paravertebral analgesia, improvement.

Rushen, J.; Boissy, A.; Terlouw, E.M.C.; de-Passille, A.M.B., (1999), **Opioid peptides and behavioral and**

physiological responses of dairy cows to social isolation in unfamiliar surroundings. *Journal of Animal Science*. Nov. 1999, v. 77 (11), p. 2918-2924. ISSN: 0021-8812.

NAL Call no: 49 J82

Descriptors: opioid peptides, behavior, physiology, dairy cows.

Salonen, J.S.; Vaha-Vahe, T.; Vainio, O.; Vakkuri, O., (1989), **Single-dose pharmacokinetics of detomidine in the horse and cow.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Mar. 1989, v. 12 (1), p. 65-72. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: pharmacokinetics, detomidine, cow, horse.

Steiner, Adrian; Roussel, Allen J.; Iselin, Urs, (1995), **Effect of xylazine, cisapride, and naloxone on myoelectric activity of the ileocecolic area in cows.** Clinic for Food Animals Horses, University. Dorn, Bremgarten, 109 A, 3012, Bern, Switzerland. *American Journal of Veterinary Research*. 1995, v. 56 (5), p. 623-628. ISSN: 0002-8645.

NAL Call no: 41.8 AM3A

Descriptors: xylazine, cisapride, naloxone effect, ileocecolic area, cows.

Vesal, N.; Sajedianfard, J.; Dehghani, S., (1998), **Epidural xylazine hydrochloride as an analgesic and sedative for teat surgery in cows.** *Journal of Applied Animal Research*. Dec. 1998, v. 14 (2), p. 175-179. ISSN: 0971-2119.

NAL Call no: SF55.I4J68

Descriptors: epidural xylazine, analgesic, sedative, cows.

Zaugg, J.L.; Nussbaum, M, (1990), **Epidural injection of xylazine: A new operation for surgical analgesia of the bovine abdomen and udder.** *Veterinary Medicine*. Sept. 1990, v. 85 (9), p. 1043-1046. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: epidural xylazine, surgical analgesia, bovine udder.

Return to: [Title Page](#) / [Table of Contents](#)

Dogs and Cats

Abeynayake, P., (1997), **Management of pain in dogs and cats using nonsteroidal anti-inflammatory analgesics.** *Australian Veterinary Journal*. Brunswick, Victoria.: Australian Veterinary Association. 1927-May 1997, v. 75 (5), p. 353. ISSN: 0005-0423.

NAL Call no: 41.8 Au72

Descriptors: pain management, dogs, cats, nonsteroidal anti-inflammatory analgesics.

Aithal, H.P.; Amarpal; Singh, G.R., (1998), **Epidural use of ketamine for hind quarter analgesia in dogs.** *Indian Journal of Animal Sciences*. Jun. 1998, v. 68 (6), p. 554. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: epidural ketamine, hind quarter analgesia, dogs.

Aithal, H.P.; Amarpal; Tyagi, S.P.; Singh, G.R.; Mogha, I.V., (1998), **Sedative, analgesic and cardiopulmonary effects of diazepam-medetomidine anaesthesia in atropinized dogs.** *Indian Journal of Animal Sciences*. Oct. 1998, v. 68 (10), p. 1012-1014. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: analgesic, sedative, effects, dogs, anaesthesia.

Aithal, H.P.; Amarpal,; Kinjavdekar, P.; Suryawanshi, S., (1999), **Analgesia and cardiopulmonary effects of pethidine and medetomidine after epidural administration in the dog.** *Indian Journal of Animal Sciences*. Oct. 1999, v. 69 (10), p. 790-794. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: analgesia, cardiopulmonary, effects, pethidine, medetomidine, dog.

Aithal, H.P.; Amarpal; Kinjavdekar, P.; Singh, G.R., (1999), **Epidural anaesthesia with ketamine in dogs with poor surgical risk.** *Indian Veterinary Journal*. Apr. 1999, v. 76 (4), p. 330-332. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: epidural anaesthesia, ketamine, dogs.

Aktas, M.; Vinclair, P.; Lefebvre, H.P.; Toutain, P.L.; Braun, J.P., (1995), **In vivo quantification of muscle damage in dogs after intermuscular administration of drugs.** *British Veterinary Journal*. London: Bailliere Tindall, Mar./Apr. 1995, v. 151 (2), p. 189-196. Ref. ISSN: 0007-1935.

NAL Call no: 41.8 V643

Descriptors: muscle damage, dogs, intramuscular drugs.

Alibhai, H.I.K., (1996), **Influence of carprofen on minimum alveolar concentration of halothane in dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, England: Blackwell Scientific Ltd. Aug. 1996, v. 19 (4), p. 320-321. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: carprofen,, halothane, dogs.

Allen, T., (1994), **Anesthesia and analgesia for companion and laboratory animals: January 1988-January 1994.** *Quick Bibliography Series*. Beltsville, MD, National Agricultural Library, Mar. 1994, (94-18) 90 p. ISSN: 1052-5378.

NAL Call no: aZ5071.N3

Descriptors: anesthesia, analgesia, companion and laboratory animals.

Amarpal, A.M. Pawde; Singh, G.R.; Pratap, K.; Kumar, N., (1996), **Clinical evaluation of medetomidine with and without pentazocine in atropinized dogs.** *Indian Journal of Animal Sciences*. 1996, v. 66 (3), p. 219-222. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: medetomidine, pentazocine, atropinized dogs.

Amarpal, H.P. Aithal; Singh, G.R.; Pratap, K., (1997), **Intranasal diazepam and ketamine for sedation and analgesia in pups.** *Indian Veterinary Journal*. Dec. 1997, v. 74 (12), p. 1056-1057. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: diazepam, ketamine, intranasal, analgesia, pups.

Amarpal,; Aithal, H.P.; Kinjavdekar, P.; Pratap, K., (1999), **Physiological, haemodynamic and haematological changes due to medetomidine-pethidine induced neuroleptanalgesia in experimental dogs.** *Indian Journal of Animal Sciences*. Feb. 1999, v. 69 (2), p. 106-108. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: changes, medetomidine, pethidine, neuroleptanalgesia, dogs.

Amarpal; Aithal, H.P.; Singh, G.R.; Bisht, G.S., (1999), **Preemptive effects of epidural ketamine for analgesia in dogs.** *Indian Veterinary Journal*. Apr.1999, v. 76 (4), p. 300-303. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: effects, epidural ketamine, analgesia, dogs.

Ansah, O.B.; Raekallio, M; Vainio, O., (1998), **Comparison of three doses of dexmedetomidine with medetomidine in cats following intramuscular administration.** *Journal of Veterinary Pharmacology and Therapeutics*. Oct. 1998, v. 21 (5), p. 380-387.

NAL Call no: SF915.J63

Descriptors: dexmedetomidine, medetomidine, intramuscular, cats.

Asimus, E.; Bayle, R.; Van Gool, F.; Postal, J.M., (1992), **Comparative study of ketoprofen and flunixin for treatment of painful and inflammatory musculo-skeletal disorders in the dog.** *Recueil de Medecine Veterinaire de l'Alfort*. 1992, v. 168 (8-9), p. 755-758. ISSN: 0034-1843.

Language: French.

NAL Call no: 41.8 R24

Descriptors: ketoprofen, flunixin, musculo-skeletal disorders, dog.

Balmer, T.V.; Irvine, D.; Jones, R.S.; Roberts, M.J.; Slingsby, L.; Taylor, P.M.; Waterman, A.E.; Waters, C., (1998), **Comparison of carprofen and pethidine as postoperative analgesics in the cat.** *Journal of Small Animal Practice*. London: British Veterinary Association. Apr. 1998, v. 39 (4), p. 158-164. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: carprofen, pethidine, postoperative analgesic, cat.

Barnhart, Matthew D.; Hubbell, John A.E.; Muir, William W.; Sams, Richard A.; Bednarski, Richard M.; (2000), **Pharmacokinetics, pharmacodynamics, and analgesic effects of morphine after rectal, intramuscular, and intravenous administration in dogs.** *American Journal of Veterinary Research*. Jan. 2000, v. 61 (1), p. 24-28. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: analgesic effects, morphine, rectal, intramuscular, intravenous, dogs.

Bartram, D.H.; Diamond, M.J.; Tute, A.S.; Trafford, A.W.; Jones, R.S., (1994), **Use of medetomidine and butorphanol for sedation in dogs.** *Journal of Small Animal Practice*. London: British Veterinary Association. Oct. 1994, v. 35 (10), p. 495-498. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: medetomidine, butorphanol, sedation, dogs.

Bartram, D.H.; Young, L.E.; Diamond, M.J.; Gregg, A.S.; Jones, R.S., (1993), **Effects of combinations of medetomidine/pethidine when used for sedation and pre-anaesthetic medication in dogs.** *Journal of Small Animal Practice*. 1993, v. 34 (11), p. 554-558. London: British Veterinary Association. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: medetomidine/pethidine combination, sedation, pre-anaesthetic, dogs.

Beale, K.M.; Kunkle, G.A.; Chalker, L.; Cannon, R., (1990), **Effects of sedation of intradermal skin testing in flea-allergic dogs.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: The Association. Oct. 1, 1990, v. 197 (7), p. 861-864. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: sedation, skin testing, flea allergy, dogs.

Benson, G.J.; Lin, H.C.; Thurmon, J.C.; Olson, W.A.; Tranquilli, W.J., (1992), **Assessment of analgesia by catecholamine analysis: Response to onychectomy in cats.** *Animal Pain*. Edited by Charles E. Short, Alan Van Poznak. New York: Churchill Livingstone, 1992, p. 436-439, 476-477. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: analgesia assessment, catecholamine, onychectomy, cats.

Benson, G.J.; Wheaton, L.G.; Thurmon, J.C.; Tranquilli, W.J.; Olson, W.A.; Davis, C.A., (1991), **Postoperative catecholamine response to onychectomy in isoflurane-anesthetized cats: Effect of analgesia.** *Veterinary Surgery*. Hagerstown, MD.: J.B. Lippincott Company. May/Jun. 1991, v. 20 (3), p. 222-225. Ref. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: postoperative, analgesia, onychectomy, cats.

Benson, G. John; Grubb, Tamara L.; Neff, Davis Carol; Olson, William A.; Thurmon, John C.; Linder, Donna L.; Tranquilli, William J.; Vanio, Outi, (2000), **Perioperative stress response in the dog: Effect of pre-emptive administration of medetomidine.** *Veterinary Surgery*. Jan./Feb. 2000, v. 29 (1), p. 85-91. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: stress, dog, medetomidine.

Bharathan, Mini; Nair, A.M Chandrasekharan; Cheeran, Jacob V.; Nair, K.N. Muraleedharan; Rajagopalan, M.K., (1995), **Effect of xylazine on tiletamine zolazepam anaesthesia in dogs.** *Journal of Veterinary and Animal Sciences.* Jun. 1995, v. 26 (1), p. 47-49. ISSN: 0971-0701.

NAL Call no: SF604.K42

Descriptors: xylazine effect, anaesthesia, dogs.

Bisen, S.S.; Pandey, S.K.; Sharma, I.J.; Chandrapuria, V.P.; Bhargava, M.K., (1994), **Biochemical and haematological effects of certain analgesic premedicants with ketamine hydrochloride in dogs.** *Indian Journal of Animal Sciences.* 1994, v. 64 (6), p. 613-615. ISSN: 0367-8318.

NAL Call no: 41.8 IN22

Descriptors: effects, analgesics, dogs.

Bisen, S.S.; Pandey, S.K.; Chandrapuria, V.P.; Bhargava, M.K., (1994), **Clinical response of certain analgesics on ketamine induced general anaesthesia in dogs.** *Indian Journal of Veterinary Surgery.* 1994, v. 15 (1), p. 30-31. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: analgesic response, ketamine anaesthesia, dogs.

Bjorling, D.E., (1998), **Analgesia for onychectomy in cats.** *Proceedings of the North American Veterinary Conference.* Gainesville, FL: Eastern States Veterinary Association, 1992-1998, v. 12, p. 570.

NAL Call no: SF605.N672

Descriptors: analgesia, onychectomy, cats.

Bloor, Bryon C.; Frankland, Maria; Alper, Glenn; Raybould, David; Weitz, Janice; Shurtliff, Max., (1992), **Hemodynamic and sedative effects of dexamedetomidine in dog.** *Journal of Pharmacology and Experimental Therapeutics.* 1992, v. 263 (2), p. 690-697. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: effects, dexamedetomidine, dog.

Bonath, K.; Gerlach, K.; Ristic-Djuric, Z.; Knorr, S.; Failing, K., (1983), **Influence of the extradural long-term anesthesia with bupivacaine and long-term analgesia with morphine on the circulation and breathing of the dog.** *Fortschritte der Veterinarmedizin-Beiheft Zentralblatt fur Veterinarmedizin.* Berlin, W. Ger.: Paul Parey, 1983, v. 37, p. 237-244. Ref. ISSN: 0301-2794.

Language: German.

NAL Call no: 41.8 Z5 SUPPL

Descriptors: long-term anesthesia, bupivacaine, morphine, effect, dog.

Bragg, Paul; Zwass, Maurice S.; Lau, Marie; Fisher, Dennis M., (1995), **Opioid pharmacodynamics in neonatal dogs: Differences between morphine and fentanyl.** *Journal of Applied Physiology.* v. 79 (5), p. 1519-1524. ISSN: 8750-7587.

NAL Call no: 447.8 J825

Descriptors: opioid pharmacodynamics, neonatal dogs.

Branson, K.R.; Ko, J.C.H.; Tranquilli, W.J.; Benson, J.; Thurmon, J.C., (1993), **Duration of analgesia induced by epidurally administered morphine and medetomidine in dogs.** *Journal of Veterinary Pharmacology and Therapeutics.* Oxford, Blackwell Scientific Publications. Sept 1993, v. 16 (3), p. 369-372. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: analgesia duration, epidural, morphine, medetomidine, dogs.

Briggs, Shannon, L.; Sneed, Kristi; Sawyer, Donald C., (1998), **Antinociceptive effects of oxymorphone-butorphanol-acepromazine combination in cats.** *Veterinary Surgery.* Sept./Oct. 1998, v. 27 (5), p. 466-472. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: anti-nociceptive effects, cats, oxymorphone/butorphanol/acepromazine.

Brock, N., (1995), **Treating moderate and severe pain in small animals.** *Canadian Veterinary Journal*. Canadian Veterinary Medical Association. c1978-Oct. 1995, v. 36 (10), p. 658-660. Ref. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: pain, small animals, treating.

Brodbelt, D.C.; Taylor, P.M.; Stanway, G.W., (1997), **A comparison of preoperative morphine and buprenorphine for postoperative analgesia for arthrotomy in dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, England: Blackwell Scientific Ltd. Aug. 1997, v. 20 (4), p. 284-289. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: preoperative morphine, postoperative buprenorphine, analgesia, dogs.

Brown, S.A.; Jacobson, J.D.; Hartsfield, S.M., (1993), **Pharmacokinetics of midazolam administered concurrently with ketamine after intravenous bolus of infusion in dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. 1993, v. 16 (4), p. 419-425. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: pharmacokinetics, midazolam, ketamine, dogs.

Buback, J.L.; Boothe, H.W.; Carroll, G.L.; Green, R.W., (1996), **Comparison of three methods for relief of pain after ear canal ablation in dogs.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Sept. 1996, v. 25 (5), p. 380-385. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: pain relief, ear canal ablation, dogs.

Carroll, G.L.; Howe, L.B.; Slater, M.R.; Haughn, L.; Martinez, E.A.; Hartsfield, S.M.; Matthews, N.S., (1998), **Evaluation of analgesia provided by postoperative administration of butorphanol to cats undergoing onychectomy.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: American Veterinary Medical Association. Jul. 15, 1998, v. 213 (2), p. 246-250. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: analgesia evaluation, postoperative butorphanol, cats.

Carroll, G.L., (1996), **How to manage perioperative pain.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Group. Apr. 1996, v. 91 (4), p. 353-357. Ref. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: management, perioperative pain.

Chang, H.C.; Li, L.C.; Marsh, K.C.; Tian, Y.; Grischeau, D., (1999), **Parenteral sustained- release dosage forms of butorphanol for dogs.** *International Journal of Pharmaceutics*. Amsterdam, Jan. 1, 1999, v. 176 (2), p. 147-156. ISSN: 0378-5173.

NAL Call no: RS122.A1I5

Descriptors: dogs, sustained release butorphanol.

Clark, D.M., (1991), **Current concepts in the treatment of degenerative joint disease.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems Company. Sept. 1991, v. 13 (9), p. 1437-1446. Ref. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: current treatment, degenerative joint disease.

Clark, K.W.; England, G.C.W., (1989), **Medetomidine, a new sedative-analgesic for use in the dog and its reversal with atipamezole.** *Journal of Small Animal Practice*. London: British Small Animal Veterinary Association. Jun. 1989, v. 30 (6), p. 343-345, 347-348. Ref. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: medetomidine, sedative, analgesic, reversal, dog.

Conzemius, M.G.; Brockman, D.J.; King, L.G.; Perkowski, S.Z., (1994), **Analgesia in dogs after intercostal thoracotomy: A clinical trial comparing intravenous buprenorphine and intrapleural bupivacaine.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Jul./Aug. 1994, v. 23 (4), p. 291-298. Ref. ISSN: 0161-3499.
NAL Call no: SF911.V43
Descriptors: analgesia, dogs, buprenorphine, bupivacaine.

Cote, E., (1998), **Over-the-counter human medications in small animals. II. Analgesic, respiratory, and dermatologic drugs.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems. Jul. 1998, v. 20 (7), p. 791-808, 829. Ref. ISSN: 0193-1093.
NAL Call no: SF601.C66
Descriptors: over the counter human medications, small animals.

Cox, K.R.; Riedesel, D., (1997), **Evaluation of femoral nerve blockade for postoperative analgesia in dogs undergoing stifle arthrotomy.** *Veterinary and Comparative Orthopaedics and Traumatology*. Stuttgart; New York: F.K. Schattauer. c1988-Feb. 1997, v. 10 (1), p. 37-44. ISSN: 0932-0814.
NAL Call no: SF910.5.V4
Descriptors: femoral nerve block, postoperative analgesia, dogs.

Cullen, L.K., (1996), **Medetomidine sedation in dogs and cats: A review of its pharmacology, antagonism and dose.** *British Veterinary Journal*. London: Bailliere Tindall. Sept. 1996, v. 152 (5), p. 519-535. ISSN: 0007-1935.
NAL Call no: 41.8 V643
Descriptors: medetomidine, dogs, cats, review.

Cullen, L.K., (1999), **Xylazine and medetomidine in small animals: These drugs should be used carefully.** *Australian Veterinary Journal*. Nov. 1999, v. 77 (11), p. 722-723. ISSN: 0005-0423.
NAL Call no: 41.8 AU72
Descriptors: xylazine, medetomidine, small animals.

Cullen, L.K.; Raffe, M.R.; Randall, D.A.; Bing, D.R., (1999), **Assessment of the respiratory actions of intramuscular morphine in conscious dogs.** *Research in Veterinary Science*. British Veterinary Association. Oct. 1999, v. 67 (2), p. 141-148. ISSN: 0034-5288.
NAL Call no: 41.8 R312
Descriptors: respiratory actions, dogs, morphine.

Day, T.K.; Pepper, W.T.; Tobias, T.A.; Flynn, M.F.; Clarke, K.W., (1995), **Comparison of intra-articular and epidural morphine for analgesia following stifle arthrotomy in dogs.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Nov./Dec. 1995, v. 24 (6), p. 522-530. ISSN: 0161-3499.
NAL Call no: SF911.V43
Descriptors: morphine, intra-articular/epidural, dogs, analgesia.

Deryck, Yvon L.J.M.; Brimiouille, Serge; Maggiorini, Marco; De Canniere, Didier; Naeije, Robert., (1996), **Systemic vascular effects of isoflurane versus propofol anesthesia in dogs.** *Anesthesia and Analgesia*. 1996, v. 83 (5), p. 958-964. ISSN: 0003-2999.
Descriptors: vascular effects, isoflurane, propofol, dogs.

Dhokariker, P.; Caywood, D.D.; Stobie, D.; Raffe, M.R.; Albrecht, M.; Kannan, M.; King, V.; Hegstad, B.; Randall, D., (1996), **Effects of intramuscular or interpleural administration of morphine and interpleural administration of bupivacaine on pulmonary function in dogs that have undergone median sternotomy.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Mar. 1996, v. 57 (3), p. 375-380.
NAL Call no: 41.8 Am3A
Descriptors: morphine, bupivacaine, pulmonary function, dogs.

Dobromylskyj, P., (1993), **Assessment of methadone as an anaesthetic premedicant in cats.** *Journal of Small Animal Practice*. British Veterinary Association. 1993, v. 34 (12), p. 604-608. ISSN: 0022-4510.
NAL Call no: 41.8 J8292

Descriptors: methadone, premedicant, cats.

Dobromylskyj, P., (1996), **Cardiovascular changes associated with anaesthesia induced by medetomidine combined with ketamine in cats.** *Journal of Small Animal Practice*. British Veterinary Association. 1996, v. 37 (4), p. 169-172. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: cardiovascular changes, medetomidine, ketamine, cats.

Dodman, N.H.; Clark, G.H.; Court, M.H.; Fikes, L.L.; Boudrieau, R.J., (1992), **Epidural opioid administration for postoperative pain relief in the dog.** *Animal pain*. Edited by Charles E.Short, Alan Van Poznak, New York: Churchill Livingstone, 1992, p. 274-277, 310-311. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: epidural opioid, postoperative pain, dog.

Dohoo, S.E.; Dohoo, I.R., (1996), **Factors influencing the postoperative use of analgesics in dogs and cats by Canadian veterinarians.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. c1978-Sept. 1996, v. 37 (9), p. 552-556. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: analgesics, dogs, cats, postoperative, use.

Dohoo, S.E.; Dohoo, I.R., (1996), **Postoperative use of analgesics in dogs and cats by Canadian veterinarians.** *Canadian Veterinary Journal* . Ottawa: Canadian Veterinary Medical Association. c1978-1996, v. 37 (9), p. 546-551. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: postoperative, analgesics, dogs, cats.

Dohoo, S.; Tasker, R.A.R.; Donald, A., (1994), **Pharmacokinetics of parenteral and oral sustained-release morphine sulfate in dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1994, v. 17 (6), p. 426-433. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: sustained release morphine, dogs, pharmacokinetics.

Donaldson, Lydia L.; Leib, Michael S.; Boyd, Christie; Burkholder, William; Sheridan, Michael, (1993), **Effect of preanesthetic medication on ease of endoscopic intubation of the duodenum in anesthetized dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. 1993, v. 54 (9), p. 1489-1495. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: preanesthetic medication, endoscopic intubation, dogs, duodenum.

Duke, T.; Komulainen-Cox, A.M.; Remedios, A.M.; Cribb, P.H., (1994), **The analgesic effects of administering fentanyl or medetomidine in the lumbosacral epidural space of cats.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Mar./Apr. 1994, v. 23 (2), p. 143-148. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: analgesia, fentanyl, medetomidine, lumbosacral epidural, cats.

Dye, T.L., (1997), **Naproxen toxicosis in a puppy.** *Veterinary and Human Toxicology*. Manhattan, KS: Kansas State Univ. Jun. 1997, v. 39 (3), p. 157-159. ISSN: 0145-6296.

NAL Call no: SF601.A47

Descriptors: naproxen, toxicosis, puppy.

Dyson, D.H., (1990), **Update on butorphanol tartrate: Use in small animals.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. Feb. 1990, v. 31 (2), p. 120-121. Ref. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: update, butorphanol, small animals.

Egger, Christine M.; Duke, Tanya; Archer, Joy; Cribb, Peter H., (1998), **Comparison of plasma fentanyl concentrations by using three transdermal fentanyl patch sizes in dogs.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Mar./Apr. 1998, v. 27 (2), p. 159-166. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: fentanyl, plasma concentration, patch sizes, dogs.

Evans, R.L., (1988), **Toxic hazards to cats.** *Veterinary Annual*, London: *Scientechnia*. 1988, v. 28, p. 251-260. ISSN: 0083-5870.

NAL Call no: 41.8 V6456

Descriptors: toxic hazards, cats.

Farnsworth, Steven T.; Gauthier, Michael E.; McJames, Scott W.; Zhang, Jie; Mamalis, Nick; Kopp, Carolin H., (1998), **Ocular transmucosal absorption and toxicity of sufentanil in dogs.** *Anesthesia and Analgesia*. Jan. 1998, v. 86 (1), p. 138-140. ISSN: 0003-2999.

Descriptors: toxicity, sufentanil, dogs.

Firth, A.M.; Haldane, S.L., (1999), **Development of a scale to evaluate postoperative pain in dogs.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: American Veterinary Medical Association. Mar. 1, 1999, v. 214 (5), p. 651-659. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: scale, evaluation, postoperative pain, dogs.

Flecknell, P.A.; Kirk, A.J.B.; Liles, J.H.; Hayes, P.H.; Dark, J.H., (1991), **Epidural opioid administration for postoperative pain relief in the dog.** *Animal pain*. Edited by Charles E. Short, Alan Van Poznak, New York: Churchill Livingstone, 1992, p. 274-277, 310-311. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: epidural opioid, pain relief, dog.

Flecknell, P.A.; Hooper, T.L.; Fetherstony, G.; Locke, T.J.; McGregor, C.G.A., (1989), **Long-term anaesthesia with alfentanil and midazolam for lung transplant in the dog.** *Laboratory Animals*. London: Royal Society of Medicine Services. Jul. 1989, v. 23 (3), p. 278-284. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: long-term anaesthesia, dog, alfentanil, midazolam.

Flecknell, P.A.; Kirk, A.J.B.; Liles, J.H.; Hayes, P.H.; Dark, J.H., (1991), **Post-operative analgesia following thoracotomy in the dog: An evaluation of the effects of bupivacaine intercostal nerve block and nalbuphine on respiratory function.** *Laboratory Animals*. London: Royal Society of Medicine Services. Oct. 1991, v. 25 (4), p. 319-324. ISSN: 0023-6772. Ref.

NAL Call no: QL55.A1L3

Descriptors: dogs, postoperative care, analgesics.

Flecknell, P.A.; Hooper, T.L.; Fetherstony, G.; Locke, T.J.; McGregor, C.G.A., (1989), **Long-term anaesthesia with alfentanil and midazolam for lung transplantation in the dog.** *Laboratory Animals*. London: Royal Society of Medicine Services. Jul. 1989, v. 23 (3), p. 278-284. ISSN: 0023-6772. Ref.

NAL Call no: QL55.A1L3

Descriptors: dogs, anaesthetics, lung transplantation, cardiovascular system.

Fox, S.M.; Mellor, D.J.; Lawoko, C.R.O.; Hodge, H.; Firth, E.C., (1998), **Changes in plasma cortisol concentrations in bitches in response to different combinations of halothane and butorphanol, with or without ovariohysterectomy.** *Research in Veterinary Science*. London, UK: W.B. Saunders Company Ltd. Sept./Oct. 1998, v. 65 (2), p. 125-133. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: plasma cortisol, bitches, halothane, butorphanol.

Fox, S.M.; McGrath, C.J.; Radasch, R.J., (1998), **Managing pain in the orthopedic patient.** *Proceedings of the North*

American Veterinary Conference. Eastern States Veterinary Association. 1992-1998, v. 12, p. 596-597. Meeting held Jan. 10-14, 1998, Orlando, FL. Ref.

NAL Call no: SF605.N672

Descriptors: pain management, orthopedics.

Fox, Steven M.; Johnston, Spencer A., (1997), **Use of carprofen for the treatment pain and inflammation in dogs**. *Journal of the American Veterinary Medical Association*. 1997, v. 210 (10), p. 1493-1498. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: carprofen, pain, treatment, dogs.

Fujii, Yoshitaka; Hoshi, Takuo; Takahashi, Shinji; Toyooka, Hidenori, (1999), **Propofol decreases diaphragmatic contractility in dogs**. *Anesthesia and Analgesia*. Dec. 1999, v. 89 (6), p. 1557-1560. ISSN: 0003-2999.

Descriptors: propofol, dogs, diaphragmatic contractility.

Funkquist, Pia M.E.; Nyman, Gorel C.; Lofgren, Anne Marie J.; Fahlbrink, Eva M., (1997), **Use of propofol-isoflurane as an anesthetic regimen for cesarean section in dogs**. *Journal of the American Veterinary Medical Association*. 1997, v. 211 (3), p. 313-317. ISSN: 0003-1488

NAL Call no: 41.8 AM3

Descriptors: propofol-isoflurane, anesthesia, dogs, cesarean section.

Gaynor, J.S., (1999), **Is postoperative pain management important in dogs and cats**. *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Group. Mar. 1999, v. 94 (3), p. 254-258. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: postoperative pain management, dogs, cats.

Gerlach, K.; Bonath, K.; Ristic-Djuric, Z.; Knorr, S., (1983), **Possibilities of long-term anesthesia with bupivacaine and long-term analgesia with morphine in dog by means of an extradural long-term catheter**. *Fortschritte Veterinarmedizin Beiheft Zentralblatte Veterinarmedizin*. Berlin, W. Ger.: Paul Parey, 1983, v. 37, p. 231-236. ill. Ref. ISSN: 0301-2794.

Language: German.

NAL Call no: 41.8 Z5 SUPPL.

Descriptors: long-term anesthesia and analgesia, bupivacaine, morphine, dog.

Greene, S.A.; Hartsfield, S.M.; Tyner, C.L., (1990), **Cardiovascular effects of butorphanol in halothane-anesthetized dogs**. *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Aug. 1990, v. 51 (8), p. 1276-1279. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: cardiovascular effects, dogs, butorphanol, halothane anesthesia.

Grimm, Kurt A.; Tranquilli, William J.; Thurmon, John C.; Benson, G. John, (2000), **Duration of nonresponse to noxious stimulation after intramuscular administration of butorphanol, medetomidine, or a butorphanol-medetomidine combination during isoflurane administration in dogs**. *American Journal of Veterinary Research*. Jan. 2000, v. 61 (1), p. 42-47. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: nonresponse to stimulus, butorphanol, medetomidine, isoflurane, dogs.

Grimm, K.A.; Thurmon, J.C.; Olson, W.A.; Tranquilli, W.J.; Benson, G.J., (1998), **The pharmacodynamics of thiopental, medetomidine, butorphanol and atropine in beagle dogs**. *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Apr. 1998, v. 21 (2), p. 133-137. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: thiopental, medetomidine, butorphanol, atropine, beagle dogs.

Grisneaux, Emmanuelle; Pibarot, Philippe; Dupuis, Jacques; Blais, Diane, (1999), **Comparison of ketoprofen and carprofen administered prior to orthopedic surgery for control of postoperative pain in dogs**. *Journal of the American Veterinary Medical Association*. Oct. 15, 1999, v. 215 (8), p. 1105-1110. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: ketoprofen, carprofen, dogs, orthopedic surgery, postoperative pain.

Haas, Tom; Svendsen, Ove., (1997), **Acute pain treatment in cats and dogs.** *Dansk Veterinaertidsskrift.* 1997, v. 80 (16), p. 715-717. ISSN: 0106-6854.

Language: Danish.

NAL Call no: 41.9 D23

Descriptors: acute pain, treatment, cats, dogs.

Hall, J.A.; Magne, M.L.; Twedt, D.C., (1987), **Effect of acepromazine, diazepam, fentanyl-droperidol, and oxymorphone on gastroesophageal sphincter pressure in health dogs.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary Medical Association. Apr. 1987, v. 48 (4), p. 556-557. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: analgesics, effect of gastroesophageal sphincter pressure, dogs.

Hall, L.W., (1985), **Premedication in canine anesthesia.** *Canine Practice.* Santa Barbara, CA: Veterinary Practice Publishing Co. Jul./Aug. 1985, v. 12 (4), p. 17-21. Ref. ISSN: 0094-4904.

NAL Call no: SF991.A1C3

Descriptors: premedication, canine, anesthesia.

Hamlin, R.L.; Bednarski, L.S.; Schuler, C.J.; Weldy, P.L.; Cohen, R.B., (1988), **Method of objective assessment of analgesia in the dog.** *Journal of Veterinary Pharmacology and Therapeutics.* Oxford: Blackwell Scientific Publications. Jun. 1988, v. 11 (2), p. 215-220. Ill. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: assessment method, anesthesia, dog.

Hansen, B., (1996), **Management of postoperative pain in dogs and cats.** *Proceedings of the North American Veterinary Conference.* Gainesville, FL: Eastern States Veterinary Association. 1992-1996, v. 10, p. 423-426.

NAL Call no: SF605.N672

Descriptors: management, postoperative pain, dogs.

Hansen, B., (1995), **Analgesics in severely ill dogs and cats: Top ten excuses exposed.** *Proceedings of the North American Veterinary Conference.* Gainesville, FL: Eastern States Veterinary Association. 1992-1995, v. 9, p. 106-107.

NAL Call no: SF605.N672

Descriptors: analgesics, severely ill dogs.

Hansen, B.D., (1994), **Analgesic therapy.** *Compendium on Continuing Education for Practicing Veterinarians.* Trenton, NJ: Veterinary Learning Systems Company. Jul. 1994, v. 16 (7), p. 868-875. Ref. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: analgesia, therapy.

Hansen, B.; Hardie, E., (1993), **Prescription and use of analgesics in dogs and cats in a veterinary teaching hospital: 258 cases (1983-1989).** *Journal of the American Veterinary Medical Association.* Schaumburg, IL: The Association. May 1, 1993, v. 202 (9), p. 1485-1494. Ref. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: use of analgesics in dogs.

Hardie, Elizabeth, M., (1997), **Management of osteoarthritis in cats.** *Veterinary Clinics of North America Small Animal Practice.* Philadelphia, PA: W.B. Saunders Co. 1997, v. 27 (4), p. 945-953. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: osteoarthritis, cats, management.

Hartsfield, S.M., (1992), **Anesthesia and control of pain responses during surgery of the eye.** *Animal pain.* Edited by Charles E. Short, Alan Van Poznak, New York: Churchill Livingstone, 1992, p. 338-347, 361. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: anesthesia, pain control, eye surgery.

Hartsfield, S.M.; Jacobson, J.D., (1991), **Anesthesia for head and neck surgery.** *Problems in Veterinary Medicine.* Hagerstown, MD: J.B, Lippencott Co. Jun. 1991, v. 3 (2), p. 123-141. Ref. ISSN: 1041-0228.
NAL Call no: SF601.P76

Descriptors: anesthesia, head and neck surgery.

Harvey, J.W.; French, T.W.; Senior, D.F., (1986), **Hematologic abnormalities associated with chronic acetaminophen administration in a dog.** *Journal of the American Veterinary Medical Association.* Schaumburg, IL: The Association. Nov. 15, 1986, v. 189 (10), p. 1334-1335. ill. Ref. ISSN: 0003-1488.
NAL Call no: 41.8 AM3

Descriptors: hematologic abnormalities, chronic acetaminophen administration, dog.

Haskins, S.C., (1987), **Use of analgesics postoperatively and in a small animal intensive care setting.** *Journal of the American Veterinary Medical Association.* Schaumburg, IL: The Association. Nov. 15, 1987, v. 191 (10), p. 1266-1268. Ref. ISSN: 0003-1488.
NAL Call no: 41.8 AM3

Descriptors: analgesics, postoperatively, small animal intensive care.

Hayashi, Kei; Nishimura, Ryohei; Yamaki, Akira; Kim, Hwi Yool; Matsunaga, Satoru; Sasaki, Nobuo; Takeuchi, Akira., (1994), **Comparison of sedative effects produced by medetomidine, medetomidine-midazolam and medetomidine-butorphanol in dogs.** *Journal of Veterinary Medical Science.* 1994, v. 56 (5), p. 951-956. ISSN: 0916-7250.

NAL Call no: SF604.J342

Descriptors: sedation, medetomidine, midazolam, butorphanol, combinations, dogs.

Heath, R.B.; Broadstone, R.V.; Wright, M.; Grandy, J.L., (1989), **Using bupivacaine hydrochloride for lumbosacral epidural analgesia.** *Compendium on Continuing Education for the Practicing Veterinarian.* Lawrenceville, NJ: Veterinary Learning Systems Company. Jan. 1989, v. 11 (1), p. 50-52, 54-55. Ill. Ref. ISSN: 0193-1903.
NAL Call no: SF601.C66

Descriptors: bupivacaine, lumbosacral epidural analgesia.

Hellyer, P.W., (1999), **Minimizing postoperative discomfort in dogs and cats.** *Veterinary Medicine.* Lenexa, KS. Veterinary Medicine Publishing Group. Mar. 1999, v. 94 (3), p. 259-266. ISSN: 8750-7943.
NAL Call no: 41.8 M69

Descriptors: postoperative discomfort, dogs, cats.

Hellyer, P.W.; Gaynor, J.S., (1998), **Acute postsurgical pain in dogs and cats.** *Compendium on Continuing Education for the Practicing Veterinarian.* Trenton, NJ: Veterinary Learning Systems. Feb. 1998, v. 20 (2), p. 140-153. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: postsurgical pain, dogs, cats.

Hendrix, P.K.; Raffe, M.R.; Robinson, E.P.; Felice, L.J.; Randall, D.A., (1996), **Epidural administration of bupivacaine, morphine, or their combination for postoperative analgesia in dogs.** *Journal of the American Veterinary Medical Association.* Schaumburg, IL: American Veterinary Association. Aug. 1, 1996, v. 209 (3), p. 598-607. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: postoperative analgesia, dogs, epidural administration.

Herperger, L.J., (1998), **Postoperative urinary retention in a dog following morphine with bupivacaine epidural analgesia.** *Canadian Veterinary Journal.* Ottawa: Canadian Veterinary Medical Association. c1978-Oct. 1998, v. 39 (10), p. 650-652. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: postoperative urinary retention, dog, morphine, bupivacaine.

Hjelle, J.J.; Grauer, G.F., (1986), **Acetaminophen-induced toxicosis in dogs and cats.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: The Association. Apr. 1, 1986, v. 188 (7), p. 742-746. Ref. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: acetaminophen, toxicosis, dogs, cats.

Hosgood, G., (1990), **Pharmacologic features of butorphanol in dogs and cats.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: The Association. Jan. 1, 1990, v. 196 (1), p. 135-135. Ref. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: pharmacology, butorphanol, dogs, cats.

Houghton, K.J.; Rech, R.H.; Sawyer, D.C.; Durham, R.A.; Adams, T.; Angham, M.A.; Striler, E.L., (1991), **Dose response of intravenous butorphanol to increase visceral nociceptive threshold in dogs.** *Proceedings of the Society for Experimental Biology and Medicine*. Baltimore, MD: Williams & Wilkins. Jul. 1991, v. 197 (3), p. 290-296. Ref. ISSN: 0037-9727.

NAL Call no: 442.9 SO1

Descriptors: dose response, intravenous butorphanol, dogs.

Hughes, H.C.; Lang, C.M., (1983), **Control of pain in dogs and cats.** *Animal pain: Perception and alleviation*. Edited by Kitchell, R.L. and Erickson, H.H. American Physiological Society, Bethesda, MD, 1983: i-x, 1-221. Chapter pagination: 179-205. Ill.

NAL Call no: QP451.4.A54

Descriptors: pain, control, dogs, cats.

Iida, Hiroki; Dohi, Shuji; Tanahashi, Tokushige; Watanabe, Yukinaga; Takenaka, Motoyasu, (1997), **Spinal conduction block by intrathecal ketamine in dogs.** *Anesthesia and Analgesia*. 1997, v. 85 (1), p. 106-110. ISSN: 0003-2999.

Descriptors: spinal block, intrathecal ketamine, dogs.

Ilkiw, J.E.; Benthuyssen, J.A.; McNeal, D., (1991), **Comparative study of the pharmacokinetics of alfentanil in rabbits, sheep, and dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Apr. 1991, v. 52 (4), p. 581-584. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: alfentanil, rabbits, sheep, dogs.

Isaacs, J.P., (1999), **Carprofen.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems. Mar., 1999, v. 21 (3), p. 246-248. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: carprofen.

Jackson, T.W.; Costin, C.; Link, K.; Heule, M.; Murphy, M.J., (1991), **Correlation of serum ibuprofen concentration with clinical signs of toxicity in three canine exposures.** *Veterinary and Human Toxicology*. Manhattan, KS: Kansas State University. Oct 1991, v. 33 (5), p. 486-488. ISSN: 0145-6296.

NAL Call no: SF601.A47

Descriptors: ibuprofen, serum concentration, toxicity, canine.

Jacobson, J.D.; McGrath, C.J.; Ko, C.H.; Smith, E.P., (1994), **Cardiorespiratory effects of glycopyrrolate-butorphanol-xylazine combination, with and without nasal administration of oxygen in dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jun. 1994, v. 55 (6), p. 835-841. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: cardiorespiratory effects, glycopyrrolate-butorphanol-xylazine combination, dogs.

James, A.E., (1995), **The laboratory cat.** *Australian and New Zealand Council for the Care of Animals in Research*

and Teaching news (ANZCCART). Glen Osmond, SA: Australian and New Zealand Council for the care of Animals in Research and Teaching. Mar. 1995, v. 8 (1), 8 p. ISSN: 1039-9089.

NAL Call no: SF405.5.A3

Descriptors: laboratory, cat.

Jerram, R.M.; Hart, R.C.; Schulz, K.S., (1997), **Postoperative management of the canine spinal surgery patient. I.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems. Feb. 1997, v. 19 (2), p. 147-161, 246. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: postoperative management, spinal surgery, canine.

Johnson, J.M., (1991), **The veterinarian's responsibility: Assessing and managing acute pain in dogs and cats. II.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems Company. Jun. 1991, v. 13 (6), p. 911-916, 921. Ref. ISSN: 0193-1902.

NAL Call no: SF601.C66

Descriptors: assessing, managing, acute pain, dogs, cats.

Johnston, Spencer A.; Budsburg, Steven C., (1997), **Nonsteroidal anti-inflammatory drugs and corticosteroids for the management of canine osteoarthritis.** *Veterinary Clinics of North America Small Animal Practice*. Philadelphia, PA: W.B. Saunders Co. 1997, v. 27 (4), p. 841-862. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: canine osteoarthritis, management, non-steroidal anti-inflammatory drugs.

Jones, Bruce V.; Lane, D.B.; Cooper, B., (1994), *Veterinary nursing: formerly Jones's animal nursing, 5th edition.* Kidlington, Oxford, England: New York: Pergamon Press, c1994, 2v. : ill. ISBN: 0080422888 (hardcover); 0080422896 (flexicover).

NAL Call no: SF774.5.V48 1994

Descriptors: veterinary nursing, animal nursing.

Joubert, Kenneth, (1998), **Ketamine hydrochloride: An adjunct for analgesia in dogs with burn wounds.** *Journal of the South African Veterinary Association*. Sept. 1998, v. 69 (3), p. 95-97. ISSN: 0301-0732.

NAL Call no: 41.8 S08

Descriptors: ketamine, dogs, burn wounds.

Karas, A.Z., (1999), **Sedation and chemical restraint in the dog and cat.** *Clinical Techniques Small Animal Practice*. Philadelphia, PA: W.B. Saunders Co. c1998, Feb. 1999, v. 14 (1), p.15-26. ISSN: 1096-2867.

NAL Call no: SF911.S45

Descriptors: sedation, chemical restraint, dog, cat.

Kelawala, N.H.; Kumar, Amresh; Chaudary, S.; Singh, H.N.; Singh, H.P., (1996), **Effects of epidural xylazine with diazepam premedication in dogs.** *Indian Veterinary Journal*. 1996, v. 73 (5), p. 552-557. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: effects, epidural xylazine-diazepam, dogs.

Klide, A.M., (1992), **Acupuncture-produced surgical analgesia-physiology, indications, techniques, and limitations.** *Problems in Veterinary Medicine*. Hagerstown, MD: J.B. Lippincott Co. Mar. 1992, v. 4 (1), p. 200-206. Ref. ISSN: 1041-0228.

NAL Call no: SF601.P76

Descriptors: acupuncture, surgical analgesia.

Ko, J.C.H.; Thurmon, J.C.; Benson, G.J.; Tranquilli, W.J.; Olson, W.A.; Vaha-Vahe, A.T., (1994), **Hemodynamic and anesthetic effects of etomidate infusion in medetomidine-premedicated dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jun. 1994, v. 55 (6), p. 842-846. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: effects, etomidate, medetomidine, dogs.

Ko, Jeff, C.H.; Bailey, James E.; Pablo, Luisito S.; Heaton-Jones, Terrell G., (1996), **Comparison of sedative and cardiorespiratory effects of medetomidine and medetomidine-butorphanol combination in dogs.** *American Journal of Veterinary Research.* 1996, v. 57 (4), p. 535-540. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: effects, medetomidine, butorphanol, dogs.

Ko, Jeff C.H.; Nicklin, Constance; Melendez, Michelle; Hamilton, Patricia; Kuonen, Christopher D., (1998), **Effects of a microdose of medetomidine on diazepam-ketamine induced anesthesia in dogs.** *Journal of the American Veterinary Medical Association.* Jul. 15, 1998, v. 213 (2), p. 215-219. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: effects, medetomidine, diazepam-ketamine, dogs.

Kojima, K.; Nishimura, R.; Mutoh, T.; Takao, K.; Matsunaga, S.; Mochizuki, M.; Sasaki, N., (1999), **Comparison of cardiopulmonary effects of medetomidine-midazolam, acepromazine-butorphanol and midazolam-butorphanol in dogs.** *Journal of Veterinary Medicine Series-A.* Aug. 1999, v. 46 (6), p. 353-359. ISSN: 0931-184X.

NAL Call no: 41.8 Z5

Descriptors: effects, medetomidine, midazolam, acepromazine, butorphanol, dogs.

Kojima, K.; Nishimura, R.; Mutoh, T.; Takao, K.; Matsunaga, S.; Mochizuki, M.; Sasaki, N., (1999), **Comparison of sedative effects of medetomidine-midazolam, acepromazine-butorphanol and midazolam-butorphanol in dogs.** *Journal of Veterinary Medicine Series-A,* Apr. 1999, v. 46 (3), p. 141-148. ISSN: 0931-184X.

NAL Call no: 41.8 Z5

Descriptors: sedative effects, dogs, drug combinations.

Konishi, M.; Shiono, Y.; Ohno, M.; Takahashi, H.; Aoki, T., (1994), **Metabolism and pharmacokinetics of dihydrocodine in dogs.** *Xenobiotica.* London: Taylor & Francis. 1994, v. 24 (7), p. 591-601. ISSN: 0049-8254.

NAL Call no: QD415.A1X4

Descriptors: pharmacokinetics, dihydrocodine, dogs, metabolism.

Kore, A.M., (1996), **Over the counter analgesic drug toxicoses in small animals.** *Veterinary Medicine.* Lenexa, KS: Veterinary Medicine Publishing Group. Feb. 1997, v. 92 (2), p. 158, 160, 162-165. Ref.

NAL Call no: 41.8 M69

Descriptors: over the counter analgesics, toxicosis, small animals.

Kramer, S.; Nolte, I.; Jochle, W., (1996), **Clinical comparison of medetomidine with xylazine/1-methadone in dogs.** *Veterinary Record.* London: The British Veterinary Association. Feb. 10, 1996, v. 138 (6), p.128-133. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: medetomidine, xylazine, 1- methadone, dogs.

Kramer, Sabine, (1991), **Clinical investigation of the new sedative and analgesic drug medetomidine and its antagonism by atipamezol in the dog.** *Hannover:* [s.n.], 1991, v. 142, 192 p., ill.

Language: German, Summary in English.

NAL Call no: DISS F1991212

Descriptors: medetomidine, atipamezol antagonism, dog.

Kristensen, Tom Schantz; Nielsen, Carsten Grondahl, (1993), **Injection of anesthesia in cats: New opportunities in anesthesia and pain management of cats (and dogs).** *Dansk Veterinaertidsskrift.* 1993, v. 76 (22), p. 973-974.

Language: Danish.

NAL Call no: 41.9 D23

Descriptors: injection anesthesia, cats, dogs, pain management.

Kuchinka, G.D.; Riedesel, D.H., (1994), **Management of acute postoperative pain in dogs and cats.** *Iowa State University Veterinarian*. Ames, IA: Iowa State University. 1959-1994, v. 56 (2), p. 71-76. ISSN: 0099-5851.

NAL Call no: 41.8 V6425

Descriptors: acute postoperative pain, management, dogs, cats.

Kumar, Amresh; Singh, Bharat, (1995), **Clinical effects of neuroleptanalgesic agents as preanaesthetics to thiopentone sodium in dogs.** *Indian Veterinary Journal*. 1995, v. 72 (4), p. 364-369. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: neuroleptanalgesics, preanaesthetics, dogs, thiopentone.

Kyles, A.E.; Hardie, E.M.; Hansen, B.D.; Papich, M.G., (1998), **Comparison of transdermal fentanyl and intramuscular oxymorphone on post-operative behavior after ovariohysterectomy in dogs.** *Research in Veterinary Science*. London, UK: W.B. Saunders Company Ltd. Nov./Dec. 1998, v. 65 (3), p. 245-251. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: transdermal fentanyl, oxymorphone, post-operative behavior, dogs.

Kyles, A.E., (1998), **Transdermal fentanyl.** *Compendium on Continuing Education for Practicing Veterinarians*. Trenton, NJ: Veterinary Learning Systems. Jun. 1998, v. 20 (6), p. 721-722, 724-726. Ref. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: transdermal fentanyl.

Kyles, A.E.; Ruslander, D., (1997), **Chronic pain: Osteoarthritis and cancer.** *Seminars in Veterinary Medicine and Surgery Small Animals*. Philadelphia, PA: W.B. Saunders Company. May 1997, v. 12 (2), p. 122-123. Ref. ISSN: 0882-0511.

NAL Call no: SF911.S45

Descriptors: chronic pain, osteoarthritis, cancer.

Kyles, Andrew E.; Papich, Mark; Hardie, Elizabeth M., (1996), **Disposition of transdermally administered fentanyl in dogs.** *American Journal of Veterinary Research*. 1996, v. 57 (5), p. 715-719. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: transdermal fentanyl, dogs, disposition.

Lascelles, D.; Waterman, A., (1997), **Analgesia in cats.** *In Practice*. London: British Veterinary Association. 1979-Apr. 1997, v. 19 (4), p. 203-213. ISSN: 0263-841X.

NAL Call no: SF601.I4

Descriptors: analgesia, cats.

Lascelles, B.D.X.; Cripps, P; Mirchandani, S.; Waterman, A.E., (1995), **Carprofen as an analgesic for postoperative pain in cats: Dose titration and assessment of efficacy in comparison to pethidine hydrochloride.** *Journal of Small Animal Practice*. London: British Veterinary Association. Dec. 1995, v. 36 (12), p. 553-541. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: carprofen, analgesia, cats, post-operative pain.

Lascelles, B.D.X.; Butterworth, S.J.; Waterman, A.E., (1994), **Postoperative analgesic and sedative effects of carprofen and pethidine in dogs.** *Veterinary Record*. London: The British Veterinary Association. Feb. 19, 1994, v. 134 (8), p. 187-191. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: postoperative analgesic, sedation, dogs, carprofen.

Lascelles, B.D.X.; Cripps, P.J.; Jones, A.; Waterman, A.E., (1997), **Post-operative central hypersensitivity and pain: The pre-emptive value of pethidine for ovariohysterectomy.** *Pain*. Dec. 1997, v.73 (3), p. 461-471. ISSN: 0304-3959.

Descriptors: pain, hypersensitivity, pethidine.

Lascelles, B. Duncan X.; Cripps, Peter J.; Jones, Alan; Waterman, Pearson Avril E., (1998), **Efficacy and kinetics of**

carprofen administered preoperatively or postoperatively, for the prevention of pain in dogs undergoing ovariohysterectomy. *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Co. Nov./Dec. 1998, v. 27 (6), p. 568-582. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: carprofen, pain, preoperatively, postoperatively.

Luks, Andrew W.; Zwass, Maurice S.; Brown, Ronald C.; Lau, Marie; Chari, Gopal; Fisher, Dennis A., (1998), **Opioid-induced analgesia in neonatal dogs: Pharmacodynamic differences between morphine and fentanyl.** *Journal of Pharmacology and Experimental Therapeutics*. Jan. 1998, v. 284 (1), p. 136-141. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: opioid analgesia, neonatal dogs, morphine, fentanyl.

Ma, D.; Sapsed, Bryne S.M.; Chakrabarti, M.K.; Whitwam, J.G., (1998), **Synergistic antinociceptive interaction between sevoflurane and intrathecal fentanyl in dogs.** *British Journal of Anaesthesia*. Jun. 1998, v. 80 (6), p. 800-806. ISSN: 0007-0912.

Descriptors: synergistic, antinociceptive, sevoflurane, fentanyl, dogs.

Mandsager, R.E.; Raffe, M.R., (1991), **Evaluation of periosteal nociception in the cat.** *Progress in Veterinary Neurology*. Santa Barbara, CA: Brillig Hill, Inc. Winter 1991, v. 2 (4), p. 237-242. Ref. ISSN: 1061-575X.

NAL Call no: SF895.P76

Descriptors: periosteal nociception, cat, evaluation.

Martin, David D.; Tranquilli, William J.; Olson, William A.; Thurmon, John C.; Benson, G. John, (1997), **Hemodynamic effects of epidural ketamine in isoflurane-anesthetized dogs.** *Veterinary Surgery*. Nov./Dec. 1997, v. 26 (6), p. 505-509. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: hemodynamic effects, epidural ketamine, isoflurane, dogs.

Martinez, E.A.; Hartsfield, S.M.; Melendez, L.D.; Matthews, N.S.; Slater, M.R., (1977), **Cardiovascular effects of buprenorphine in anesthetized dogs.** *American Journal of Veterinary Research*, Schaumburg, IL: American Veterinary Medical Association. Nov. 1997, v. 58(11), p. 1280-1284. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: cardiovascular effects, buprenorphine, anesthetized dogs.

Martinez, L.; Sarafini, M.T.; Pretel, M.J.; Garcia, Soret A.; Moragon, T.; Puig, S., (1999), **Absorption, distribution, metabolism and excretion of cizolirtine, a new analgesic compound in rat and dog.** *Xenobiotica*. Aug. 1999, v. 29 (8), p. 859-871. ISSN: 0049-8254.

NAL Call no: QD415.A1X4

Descriptors: new analgesic, cizolirtine, effect in rat and dog.

Mathews, K.A., (1997), **Non-steroidal anti-inflammatory analgesics for acute pain management in dogs and cats.** *Veterinary and Comparative Orthopaedics and Traumatology*. Stuttgart: New York: F. K. Schattauer, c1988-Aug. 1997, v. 10 (3), p. 122-129. ISSN: 0932-0814.

NAL Call no: SF910.5.V4

Descriptors: acute pain management, dog, cats, non-steroidal anti-inflammatory analgesics.

Mathews, K.A., (1996), **Nonsteroidal antiinflammatory analgesics to manage acute pain in dogs and cats.** [Errata: Jan. 1997, v. 19 (1), p. 10 and Jun. 1997, v. 19 (6), p. 667]. *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems. Oct. 1996, v. 18 (10), p. 1117-1123. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: acute pain, dogs, cats, management.

Mathews, K.A., (1996), **Nonsteroidal anti-inflammatory analgesics in pain management in dogs and cats.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. c1978-Sept. 1996, v. 37 (9), p. 539-545. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: pain management, dogs, cats.

Mathews, K.A.; Paley, D.M.; Foster, R.A.; Vallient, A.E.; Young, S.S., (1996), **A comparison of ketorolac with flunixin, butorphanol, and oxymorphone in controlling postoperative pain in dogs.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. c1978-Sept. 1996, v. 37 (9), p. 557-567. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: drug comparison, post operative pain control, dogs.

Mathews, K.A., (1997), **Non-steroidal anti-inflammatory analgesics for acute pain management in dogs and cats.** *Veterinary and Comparative Orthopaedics and Traumatology*. Stuttgart, New York: F.K. Schattauer. c1988-Aug. 1997, v. 10 (3), p. 1 22-129. Ref. ISSN: 0932-0814.

NAL Call no: SF910.5.V4

Descriptors: acute pain management, dogs, cats.

Mathews, K.A.; Doherty, T; Dyson, D.H.; Wilcock, B.; Valliant, A., (1990), **Nephrotoxicity in dogs associated with methoxyflurane anesthesia and flunixin meglumine analgesia.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. Nov. 1990, v. 31 (11), p. 766-771. Ref. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: nephrotoxicity, dogs, methoxyflurane, flunixin meglumine.

McKellar, Q.A.; Delatour, P.; Lees, P., (1994), **Sterospecific pharmacodynamics and pharmacokinetics of carprofen in the dog.** *Journal of Veterinary Pharmacology and Therapeutics*. 1994, v. 17 (6), p. 447-454. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: carprofen, pharmacodynamics, pharmacokinetics, dog.

McMurphy, R.M., (1993), **Postoperative epidural analgesia.** *Veterinary Clinics of North America Small Animal Practice*. Philadelphia, PA: W.B. Saunders Company. Jul. 1993, v. 23 (4), p. 703-716. Ref. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: postoperative analgesia.

Meissner, A; Weber, T.P.; Van Aken, H.; Rolf, N., (1999), **Limited upper thoracic epidural block and splanchnic perfusion in dogs.** *Anesthesia and Analgesia*. Dec. 1999, v. 89 (6), p. 1378-1381. ISSN: 0003-2999.

Descriptors: thoracic epidural block, dogs, perfusion.

Muir, W.W. III; Ford, J.L.; Karpa, G.E.; Harrison, E.E.; Gadawski, J., (1999), **Effects of intramuscular administration of low doses of medetomidine and medetomidine-butorphanol in middle-aged and old dogs.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: American Veterinary Medical Association. Oct. 15, 1999, v. 215 (8), p. 1116-1120. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: effects, medetomidine, butorphanol, middle aged and old dogs.

Muir, W.W., (1998), **Anesthesia for dogs and cats with cardiovascular disease. II.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems. Apr. 1998, v. 20 (4), p. 473-475, 478-484. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: cardiovascular disease, dogs, cats, anesthesia.

Munt, P.L.; Bruzzese, T.; Algate, D.R., (1995), **Analgesic Activity of the Lysozyme Peptide N-(N_L-Threonyl-L-alpha-aspartyl)-L-tyrosine in the monkey and the dog.** *Arzneimittel Forschung*. 1995, v. 45 (7), p. 805-809. ISSN: 0004-4172.

NAL Call no: RS1.A7

Descriptors: analgesia activity, dog, monkey.

Nolan, A.; Reid, J., (1993), **Comparison of the postoperative analgesic and sedative effects of carprofen and papaveretum in the dog.** *Veterinary Record*. London: The British Veterinary Association. Sept. 4, 1993, v. 133 (10), p. 240-242. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: effects, carprofen, papaveretum, dog.

Orton, E. Christopher; McCracken, Thomas; Gaynor, James S., (1995), *Small animal thoracic surgery*. Baltimore: Williams & Wilkens, 1995, xiii, 256 p., ill. ISBN: 0683066706.

NAL Call no: SF991.088 1995

Descriptors: small animals, thoracic surgery.

Papich, Mark G., (1997), **Principles of analgesia drug therapy.** *Seminars in Veterinary Medicine and Surgery Small Animals*. Philadelphia, PA: W.B. Saunders Co. 1997, v. 12 (2), p. 80-93. ISSN: 0882-0511.

NAL Call no: SF911.S45

Descriptors: analgesia drug therapy, principles.

Parikh, P.V.; Kumar, Amresh; Sharma, B.; Tiwari, S.K.; Jadon, N.S., (1995), **Clinical, physiological and haematobiochemical effects of detomidine with or without atropine in diazepam premedicated dogs.** *Indian Journal of Veterinary Surgery*. 1995, v. 16 (1), p. 19-23. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: effects, detomidine, diazepam, dogs.

Pascoe, P.J.; Dyson, D.H., (1993), **Analgesia after lateral thoracotomy in dogs: Epidural morphine vs. intercostal bupivacaine.** *Veterinary Surgery*. Hagerstown, MD: J.B. Lippincott Company. Mar./Apr. 1993, v. 22 (2), p. 141-147. Ref. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: analgesia, dogs, thoracotomy, morphine vs. bupivacaine.

Pascoe, P.J., (1988), **Intraoperative or postoperative pain.** *Decision Making in Small Animal Soft Tissue Surgery*. Allen G. Binnington, Joanne R. Cockshutt, Toronto, B.C., Decker, Inc. 1988, p. 186-187. ISBN: 0941158683.

NAL Call no: SF911.B56

Descriptors: intraoperative, postoperative pain.

Pascoe, Peter, (1997), **Local and regional anesthesia and analgesia.** *Seminars in Veterinary Medicine and Surgery Small Animal*. Philadelphia, PA: W.B. Saunders Co. 1997, V. 12 (2), p. 94-105. ISSN: 0882-0511.

NAL Call no: SF911.S45

Descriptors: local, regional, anesthesia, analgesia.

Perez, R.; Matus, P., (1986), **Comparative studies of cardiovascular and respiratory effects on Fentanyl and Pentazocin in combination with Flunitrazepam in neuroleptic analgesia in the dog.** *Journal of Veterinary Medicine and Surgery*. A Zentralblatte Veterinarmedizin Reihe A. Berlin, W. Ger.: Paul Parey, Mar. 1986, v. 33 (3), p. 219-230. Ref. ISSN: 0721-0981.

Language: Spanish with a summary in English and German.

NAL Call no: 41.8 Z5

Descriptors: effects, fentanyl, pentazocin, flunitrazepam, analgesia, dog.

Perez, R.; Silva, P., (1982), **Altar-analgesia induced in dogs by fentanyl associated with flunitrazepam.** *Archivos de Medicina Veterinaria*. Valdivia: Facultad de Medicina Veterinaria, Universidad Austral de Chile. 1982, v. 14 (1), p. 17-22. ISSN: 0301-732X.

Language: Spanish with a summary in English.

NAL Call no: SF604.A75

Descriptors: analgesia, dogs, fentanyl, flunitrazepam.

Pettifer, G.R.; Dyson, D.H., (1993), **Comparison of medetomidine and fentanyl-droperidol in dogs: Sedation, analgesia, arterial blood gasses and lactate levels.** *Canadian Journal of Veterinary Research*. Ottawa: Canadian

Veterinary Medical Association. Apr 1993, v. 57 (2), p. 99-105. Ref. ISSN: 0830-9000.

NAL Call no: SF601.C24

Descriptors: medetomidine, fentanyl-droperidol, dogs, analgesia, sedation.

Pibarot, P.; Dupuis, J.; Grisneaux, E.; Guvelliez, S.; Plante, J.; Beauregard, G.; Bonneau, N.H.; Bouffard, J.; Blais, D., (1997), **Comparison of ketoprofen, oxymorphone hydrochloride and butorphanol in the treatment of postoperative pain in dogs.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: American Veterinary Medical Association. Aug. 15, 1997, v. 211 (4), p. 438-444. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: postoperative pain, dogs, drug comparison.

Pollet, R.; Claxton, R.; Raffe, M., (1998), **Using butorphanol tartrate to manage pain in cats.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Group. Feb. 1998, v. 93 (2), p. 146-147, 150, 152, 154-155. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: butorphanol, cats, pain management.

Poortinga, Ernest W.; Hungerford, Laura L., (1998), **A case-control study of acute ibuprofen toxicity in dogs.** *Preventive Veterinary Medicine*. May 1, 1998, v. 35 (2), p. 115-124. ISSN: 0167-5877.

NAL Call no: SF601.P7

Descriptors: acute ibuprofen toxicity, dogs.

Popilskis, S.; Kohn, D.; Sanchez, J.A.; Gorman, P., (1991), **Epidural vs. intramuscular oxymorphone analgesia after thoracotomy in dogs.** *Veterinary Surgery*. Hagerstown, MD: J.B. Lippincott Company. Nov./Dec. 1991, v. 20 (6), p. 462-467. Ref. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: epidural vs. intramuscular, oxymorphone, analgesia, dogs.

Potthoff, A.; Ames, I.A.; Carithers, R.W., (1989), **Pain and analgesia in dogs and cats.** *Compendium on Continuing Education for the Practicing Veterinarian*. Lawrenceville, NJ: Veterinary Learning Systems Company. Aug. 1989, v. 11 (8), p. 887-890, 892-894, 895, 897. ill., Ref. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: pain, analgesia, dogs, cats.

Pratap, K.; Amarpal; Aithal, H.P.; Sing, G.R., (1997), **Effect of medetomidine injection in dogs.** *Indian Veterinary Journal*. 1997, v. 74 (7), p. 627. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: effect, medetomidine, dogs.

Pypendop, B.; Serteyn, D.; Vestegen, J., (1996), **Hemodynamic effects of medetomidine-midazolam-butorphanol and medetomidine-midazolam-buprenorphine combinations and reversibility by atipamezole in dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. May 1996, v. 57 (5), p. 724-730. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: drug effects, reversibility, dogs.

Pypendop, B.; Housiaux, N.; Iguer, Ouada M.; Onclin, K.; Scalais, S.; Van Den Bossche, A.; Wergifosse, F.; Verstegen, J., (1999), **Clinical use of medetomidine-midazolam-butorphanol combination as anesthetic regimen in dogs.** *Annales de Medecine Veterinaire*. Jan./Feb. 1999, v. 143 (1), p. 47-52. ISSN: 0003-4118.

Language: French.

Descriptors: medetomidine-midazolam-butorphanol, anesthetic, dogs.

Quandt, J.E.; Rawlings, C.R., (1996), **Reducing postoperative pain for dogs: Local anesthetic and analgesic techniques.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems Company. Feb. 1996, v. 18 (2), p. 101-105, 108-111, 140. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: dogs, reducing postoperative pain, techniques.

Rao, M. Ramana; Lakshmipathi, G.V.; Sreenu, Makkena, (1997), **Evaluation of epidural analgesia of 0.5 percent bupivacaine alone and with different concentrations of amyl alcohol in dogs.** *Indian Journal of Veterinary Surgery*. 1997, v. 18 (1), p. 29. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: analgesia, dogs, bupivacaine and amyl alcohol.

Raut, S.B.; Deore, M.D.; Gatne, M.M.; Jagadish, S.J.; Ranade, V.V., (1995), **Pharmacokinetics of ibuprofen in dogs after intravenous administration.** *Indian Veterinary Journal*. 1995, v. 72 (7), p. 749-751. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: pharmacokinetics, dogs, ibuprofen.

Reid, J.; Nolan, A.M., (1991), **A comparison of the postoperative analgesic and sedative effects of flunixin and papaveretum in the dog.** *Journal of Small Animal Practice*. London: British Small Animal Veterinary Association. Dec. 1991, v. 32 (12), p. 603-608. Ref. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: postoperative analgesia, sedation, flunixin, papaveretum, dog.

Remedios, A.M.; Wagner, R.; Caulkett, N.A.; Duke, T., (1996), **Epidural abscess and discospondylitis in a dog after administration of a lumbrosacral epidural analgesic.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. c1978-Feb. 1996, v. 37 (2), p. 106-107. Ref. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: abscess, discospondylitis, dog, epidural analgesia.

Robinson, E.P.; Faggella, A.M.; Henry, D.P.; Russell, W.L., (1988), **Comparison of histamine release induced by morphine and oxymorphone administered in dogs.** *American Journal of Veterinary Research*. Schaumburg, IL; American Veterinary Medical Association. Oct. 1988, v. 49 (10), p. 1699-1701. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: histamine release, morphine, oxymorphone, dogs.

Robinson, Timothy M.; Kruse, Elliot Kris T.; Markel, Mark D.; Pluhar, G. Elizabeth; Massa, Kathy; Bjorling, Dale E., (1999), **A comparison of transdermal fentanyl versus epidural morphine for analgesia in dogs undergoing major orthopedic surgery.** *Journal of the American Animal Hospital Association*. Lakewood, CO: The Association. Mar./Apr. 1999, v. 35 (2), p. 95-100. ISSN: 0587-2871.

NAL Call no: SF601.A5

Descriptors: transdermal fentanyl vs. epidural morphine, analgesia, dogs.

Rumbeiha, W.K.; Lin, Y.S.; Oehme, F.W., (1995), **Comparison of N-acetylcysteine and methylene blue, alone or in combination, for treatment of acetaminophen toxicosis in cats.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Nov. 1995, v. 56 (11), p. 1529-1533. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: acetaminophen toxicosis, cats.

Sabbe, Marc B.; Grafe, Marjorie R.; Mjanger, Erling; Tiseo, Paul J.; Hill, Harlan F.; Yaksh, Tony L., (1994), **Spinal delivery of sufentanil, alfentanil, and morphine in dogs.** *Anesthesiology*. Hagerstown, 1994, v. 81 (4), p. 899-920. ISSN: 0003-3022.

Descriptors: sufentanil, alfentanil, morphine, dogs, spinal delivery.

Sackman, J.E., (1991), **Pain II. Control of pain in animals.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems Company. Feb. 1991, v. 13 (2), p. 181-187, 190-192. Ref. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: pain in animals, control.

Salonen, S.; Vuorilehto, L.; Vainio, O.; Anttila, M., (1995), **Atipamezole increases medetomidine clearance in the dog: An agonist-antagonist interaction.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1995, v. 18 (5), p. 328-332. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: medetomidine, agonist action, dog.

Sammarco, J.L.; Conzemius, M.G.; Perkowski, S.J.; Weinstein, M.J.; Gregor, T.P.; Smith, G.K., (1996), **Postoperative analgesia for stifle surgery: A comparison of intra-articular bupivacaine, morphine, or saline.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Jan./Feb. 1996, v. 25 (1), p. 59-69. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: analgesia, stifle surgery, intr-articular.

Sap, R.; Hellebrekers, L.J.; Van Foreest, A.W.; Ter Beek, F.J., (1997), **Evaluation of the use of medetomidine and ketamine to induce anaesthesia in dogs undergoing dental surgery.** *Tijdschrift-voor-Diergeneeskunde*. 1997, v. 122 (11), p. 309-312. ISSN: 0040-7453.

Language: Netherlandish.

NAL Call no: 41.8 T431

Descriptors: dental surgery, dogs, medetomidine and ketamine.

Sawyer, D.C.; Rech, R.H.; Durham, R.A., (1993), **Does ketamine provide adequate visceral analgesia when used alone or in combination with acepromazine, diazepam, or butorphanol in cats.** *Journal of the American Animal Hospital Association*. Lakewood, CO: The Association. May/Jun. 1993, v. 29 (3), p. 257-263. ISSN: 0587-2871.

NAL Call no: SF601.A5

Descriptors: cats, visceral analgesia.

Sawyer, D.C.; Durham, R.A.; Striler, E.L.; Langham, M., (1990), **Induction techniques and maintenance systems for isoflurane in cats.** *Anesthesia and Analgesia in Laboratory Animals Proceedings*. 1990 Forum, American College of Laboratory Animal Medicine, Columbia Inn, Columbia, MD, May 3-6, 1990: p. 21-25. Ref.

NAL Call no: SF914.A53 1990.

Descriptors: induction, maintenance, isoflurane, cats.

Sawyer, D.C.; Rech, R.H., (1987), **Analgesia and behavioral effects of butorphanol, nalbuphine, and pentazocine in the cat.** *Journal of the American Animal Hospital Association*. Golden, CO: The Association. Jul./Aug. 1987, v. 23 (4), p. 438-446. Ref. ISSN: 0587-2871.

NAL Call no: SF601.A5

Descriptors: analgesia, behavior, cat, butorphanol, nalbuphine, pentazocine.

Sawyer, D.C., (1998), **Pain control in small-animal patients.** *Applied Animal Behavior Science*. Amsterdam, New York: Elsevier, 1984-Aug. 1998, v. 59 (1/3), p. 135-146. ISSN: 0168-1591.

NAL Call no: QL750.A6

Descriptors: pain control, small animals.

Sawyer, D.C., (1990), **Use of analgesic for postsurgical pain in dogs and cats.** *Anesthesia and Analgesia in Laboratory Animals Proceedings*. 1990 forum, American College of Laboratory Animal Medicine, Columbia Inn, Columbia, MD. May 3-6, 1990: American College of Laboratory Animal Medicine. 1990, p. 93-99. Ref.

NAL Call no: SF914.A53 1990

Descriptors: analgesics, post-surgical pain, dogs, cats.

Sawyer, D.C.; Rech, R.H.; Adams, T.; Durham, R.A.; Richter, M.A.; Striler, E.L., (1992), **Analgesia and behavioral responses of dogs given oxymorphone-acepromazine and meperidine-acepromazine after methoxyflurane and halothane anesthesia.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Aug. 1992, v. 53 (8), p. 1361-1368. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: analgesia, behavioral responses, dogs.

Sawyer, D.C.; Rech, R.H.; Durham, R.A.; Adams, T.; Richter, M.A.; Striler, E.L., (1991), **Dose response to butorphanol administered subcutaneously to increase visceral nociceptive threshold in dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Nov. 1991, v. 52 (11), p. 1826-1830. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: dose response, butorphanol, dogs, nociceptive threshold.

Schmeling, William T.; Ganjoo, Pragati; Staunton, Michael; Drexler, Cathy; Farber, Neil E., (1999), **Pretreatment with dexmedetomidine: Altered indices of anesthetic depth for halothane in the neuraxis of cats.** *Anesthesia and Analgesia*. Mar.1999, v. 88 (3), p. 625-632. ISSN: 0003-2999.

Descriptors: pretreatment, dexmedetomidine, altered indices anesthetic depth, halothane.

Sengupta, P.; Das, B.B.; Bose, P.K.; Nandi, S.K., (1995), **Comparative evaluation of effect of procaine hydrochloride, lignocaine hydrochloride and bupivacaine hydrochloride for ocular anaesthesia in canines.** *Indian Veterinary Journal*. 1995, v. 72 (3), p. 257-260. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: comparative evaluation, ocular anaesthesia, canines.

Short, C.E.; Tyner, C.L.; Matthews, N.; McMurphy, R., (1987), **Preanesthetic and postoperative pain relief in dogs: Comparing analgesics.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Company. Jul. 1987, v. 82 (7), p. 744-751. Ref. ISSN: 0042-4889.

NAL Call no: 41.8 M69

Descriptors: pain relief, pre-anesthetic, postoperative, comparisons.

Singh, Mohinder; Nigam, J.M.; Singh, Madhumeet; Kumar, Viney; Sharma, S.K.; Varshney, A.C., (1997), **Clinical evaluation of xylazine and ketamine combination in canines.** *Indian Veterinary Journal*. 1997, v. 74 (4), p. 354-355. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: clinical evaluation, xylazine, ketamine, canines.

Slingsby, L.S.; Waterman-Pearson, A.E., (1998), **Comparison of pethidine, buprenorphine and ketoprofen for postoperative analgesia after ovariohysterectomy in the cat.** *Veterinary Record*. London: The British Veterinary Association. Aug. 15, 1998, v. 143 (7), p. 185-189. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: drug comparison, postoperative analgesia, cat.

Smith, J.D.; Allen, S.W.; Quandt, J.E.; Tackett, R.L., (1996), **Indicators of postoperative pain in cats and correlation with clinical criteria.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Nov. 1996, V. 57 (11), p. 1674-1678. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: postoperative indicators of pain, cat, clinical correlation.

Soldani, G.; Mengozzi, G.; Intorre, L., (1987), **Inhibition of gastric acid secretion in dogs by detomidine.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Sept. 1987, v. 10 (3), p. 266-268. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: inhibition of gastric acid secretion, dogs, detomidine.

Steffey, E.P.; Eisele, J.H.; Baggot, J.D.; Woliner, M.J.; Jarvis, K.A.; Elliott, A.R., (1993), **Influence of inhaled anesthetics on the pharmacokinetics and pharmacodynamics of morphine.** *Anesthesia and Analgesia*. 1993, v. 77 (2), p. 346-351. ISSN: 0003-2999.

Descriptors: inhaled anesthetics influence, pharmacodynamics, morphine.

Steffey, E.P.; Baggot, J.D.; Eisele, J.H.; Willits, N.; Woliner, M.J.; Jarvis, K.A.; Elliott, A.R.; Tagawa, M., (1994),

Morphine-isoflurane interactions in dogs, swine and rhesus monkeys. *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1994, v. 17 (3), p. 202-210. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: morphine-isoflurane, dogs, swine, rhesus monkeys.

Stein, Christoph, (1993), **Peripheral mechanisms of opioid analgesia.** *Anesthesia and Analgesia*. 1993, v. 76 (1), p. 182-191. ISSN: 0003-2999.

Descriptors: opioid analgesia, peripheral mechanisms.

Stepien, R.L.; Bonagura, J.D.; Bednarski, R.M.; Muir, W.W. III, (1995), **Cardiorespiratory effects of acepromazine maleate and buprenorphine hydrochloride in clinically normal dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jan. 1995, v. 56 (1), p. 78-84. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: cardiorespiratory effects, acepromazine, buprenorphine, dogs.

Still, J., (1989), **Analgesic effects of acupuncture in thoracolumbar disc disease in dogs.** *Journal of Small Animal Practice*. London: British Small Animal Veterinary Association. May 1989, v. 30 (5), p. 298-301. Ill. Ref. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: analgesia, acupuncture, thoracolumbar disc disease, dogs.

Stobie, D.; Caywood, D.D.; Rozanski, E.A.; Bing, D.R.; Dhokarika, P.; Raffe, M.R.; Kannan, M.S.; King, V.L.; Hegstad, R.L.; Randall, D.A., (1995), **Evaluation of pulmonary function and analgesia in dogs after intercostal thoracotomy and use of morphine administered intramuscularly or intrapleurally and bupivacaine administered intrapleurally.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. 1995, v. 56 (8), p. 1098-1109. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: pulmonary functions, thoracotomy, dogs, analgesics.

Streisand, James B.; Zhang, Jie; Niu, Suyi; McJames, Scott; Natte, Remco; Pace, Nathan L., (1995), **Buccal absorption of fentanyl is pH-dependent in dogs.** *Anesthesiology*. Hagerstown, 1995, v. 82 (3), p. 759-764. ISSN: 0003-3022.

Descriptors: dogs, buccal absorption, fentanyl.

Sumano, H.; Vizcaya, A.de, (1996), **Tolerance and clinical evaluation of piroxicam in dogs.** *Canine Practice*. Santa Barbara, CA: Veterinary Practice Pub. Co. 1990-Sept./Oct. 1996, v. 21 (5), p. 16-19. Ref. ISSN: 1057-6622.

NAL Call no: SF911.A1C3

Descriptors: tolerance, piroxicam, dogs.

Tasker, R.A.R.; Ross, S.J.; Dohoo, S.E.; Elson, C.M., (1997), **Pharmacokinetics of an injectable sustained-release formulation of morphine for use in dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1997, v. 20 (5), p. 362-367. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: morphine, sustained release, dogs.

Taylor, P., (1985), **Analgesia in the dog and cat.** *In Practice*. London: British Veterinary Association. Jan. 1985, v. 7 (1), p. 5, 7-8, 10-13, ill. Ref. ISSN: 0263-841X.

NAL Call no: SF601.I4

Descriptors: analgesia, dog, cat.

Taylor, P.; Houlton, J.E.F., (1984), **Post-operative analgesia in the dog: A comparison of morphine, buprenorphine and pentazocine.** *Journal of Small Animal Practice*. London: British Small Animal Veterinary Association. Jul. 1984, v. 25 (7), p. 437-451. ill. Ref. ISSN: 0020-4510.

NAL Call no: 41.8 J8292

Descriptors: post-operative analgesia, dog, buprenorphine, pentazocine.

Thompson, S.E.; Johnson, J.M., (1991), **Analgesia in dogs after intercostal thoracotomy: A comparison of morphine, selective intercostal nerve block, and interpleural regional analgesia with bupivacaine.** *Veterinary Surgery*. Hagerstown, MD: J.B. Lippencott Company. Jan./Feb. 1991, v. 20 (1), p. 73-77. Ref. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: analgesia, dogs, morphine, bupivacaine, nerve block.

Thurmon, J.C.; Ko, J.C.H.; Benson, G.J.; Tranquilli, W.J.; Olson, W.A., (1994), **Hemodynamic and analgesic effects of propofol infusion in medetomidine-premedicated dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Mar. 1994, v. 55 (3), p. 363-367. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: effects, propofol, medetomidine pre-medicated, dogs.

Thurmon, John C.; Tranquilli, William J.; Ko, Jeff, C.H., (1995), **Clinical appraisal of propofol as an anesthetic in dogs premedicated with medetomidine.** *Canine Practice*. Santa Barbara, CA: Veterinary Practice Publishing. 1995, v. 20 (1), p. 21-15. ISSN: 0094-4904.

NAL Call no: SF991.A1C3

Descriptors: propofol anesthetic, medetomidine, dogs.

Tiwari, Sangita; Bhargava, M.K.; Pandey, S.K.; Chandrapuria, V.P., (1993), **Morphine as preanaesthetic in dogs.** *Indian Journal of Veterinary Surgery*. 1993, v. 14 (2), p. 86-87. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: morphine pre-anesthesia, dogs.

Tiwari, S.K.; Sharda, R.; Yadav, S.K., (1994), **Clinical and haemato-biochemical response to ketamine with diazepam and xylazine premedication in dogs.** *Indian Veterinary Journal*. 1994, v. 71 (9), p. 943-945. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Tiwari, S.K.; Kumar, Amresh; Sarma, B., (1998), **Medetomidine as premedicant to thiopentone anaesthesia and its reversal by atipamesole in dogs.** *Indian Veterinary Journal*. Jun. 1998, v. 75 (6), p. 530-534. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: medetomidine, thiopentone, dogs, reversal.

Tomizawa, N.; Tomita, I; Nakamura, K.; Hara, S., (1997), **A comparative study of medetomidine-butorphanol-ketamine and medetomidine-ketamine anaesthesia in dogs.** *Journal of Veterinary Medicine-Series-A*. 1997, v. 44 (4), p. 189-194. ISSN: 0931-184X.

NAL Call no: 41.8 Z5

Descriptors: anesthesia, dogs.

Torske, K.E.; Dyson, D.H.; Pettifer, G., (1998), **End tidal halothane concentration and postoperative analgesia requirements in dogs: A comparison between intravenous oxymorphone and epidural bupivacaine alone and in combination with oxymorphone.** *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. c1978-Jun. 1998, v. 39 (6), p. 361-369. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: tidal halothane concentration, post-operative analgesia, dogs.

Torske, Kristine E.; Dyson, Doris; Conlon, Peter D., (1999), **Cardiovascular effects of epidurally administered oxymorphone and an oxymorphone-bupivacaine combination in halothane-anesthetized dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Feb. 1999, v. 60 (2), p. 194-200. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: cardiovascular effects, analgesics, anesthetized dogs.

Tranquilli, W.J.; Fikes, L.L.; Raffe, M.R., (1989), **Selecting the right analgesics: Indications and dosage requirements.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Company. Jul. 1989, v. 84 (7), p.

692-697. Ref. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: selecting analgesics, indications, dosage requirements.

Troncy, E.; Cuvelliez, S.G.; Blais, D., (1996), **Evaluation of analgesia and cardiorespiratory effects of epidurally administered butorphanol in isoflurane-anesthetized dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Oct. 1996, v. 57 (10), p. 1478-1482. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: analgesia, cardiorespiratory effects, anesthetized dogs.

Troncy, E.; Besner, J.G.; Charbonneau, R.; Cuvelliez, S.G.; Blais, D., (1996), **Pharmacokinetics of epidural butorphanol in isoflurane-anaesthetized dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1996, v. 19 (4), p. 268-273. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: pharmacokinetics, butorphanol, anesthetized dogs,

Troncy, Eric, (1998), **Epidural analgesia of the dog and the cat.** *Medecin Veterinaire du Quebec*. 1998, v. 28 (1), p. 24-27, 30-32. ISSN: 0225-9591.

NAL Call no: SF602.M8

Descriptors: analgesia, epidural, dog, cat.

Tyner, C.L.; Woody, B.J.; Reid, J.S.; Chafetz, E.P.; Lederer, H.A.; Norton, J.F.; Keefe, T.J.; Jochle, W.J., (1997), **Multicenter clinical comparison of sedative and analgesic effects of medetomidine and xylazine in dogs.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: American Veterinary Medical Association. Dec. 1, 1997, v. 211 (11), p. 1413-1417. Ref. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: sedative and analgesic effects, medetomidine, xylazine, dogs.

Tyner, C.L.; Greene, S.A.; Hartsfield, S.M., (1989), **Cardiovascular effects of butorphanol administration in isoflurane-02 anesthetized healthy dogs.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Sept. 1989, v. 50 (8), p. 1340-1342. ISSN: 0002-9645.

NAL Call no: 41.8 AM3

Descriptors: cardiovascular effects, butorphanol, isoflurane-02, dogs.

Vaha-Vahe, A.T., (1990), **Clinical effectiveness of atipamezole as a medetomidine antagonist in cats.** *Journal of Small Animal Practice*. London: British Small Animal Veterinary Association. Apr. 1990, v. 31 (4), p. 193-197. ISSN: 0022-4510.

NAL Call no: 41.8 J8292

Descriptors: antagonist, atipamezole, cats.

Vaha-Vahe, A.T., (1990), **Clinical effectiveness of atipamezole as a medetomidine antagonist in the dog.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Jun. 1990, v. 13 (2), p. 198-205. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: atipamezole, antagonist, dog.

Vainio, O.; Ojala, M., (1994), **Medetomidine, an alpha 2-agonist, alleviates post-thoracotomy pain in dogs.** *Laboratory Animals*. London: Royal Society of Medicine Press Ltd. Oct. 1994, v. 28 (4), p. 369-375. Ref. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: post-thoracotomy pain, dog, medetomidine.

Vainio, O.; Vaha-Vahe, T.; Palmu, L., (1989), **Sedative and analgesic effects of medetomidine in dogs.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Jun. 1989, v. 12 (2), p. 225-231. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: sedative, analgesic, dogs, medetomidine.

Verstegen, J.; Fagetton, X.; Donnay, I.; Ectors, F., (1991), **An evaluation of medetomidine/ketamine and other drug combinations for anesthesia in cats.** *Veterinary Record*. British Veterinary Association, London: The Association. Jan. 12, 1991, v. 128 (2), p. 32-35. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: drug combinations, anesthesia, cats.

Verstegen, J.; Fagetton, X.; Donnay, I.; Ectors, F., (1990), **Comparison of the clinical utility of medetomidine/ketamine and xylazine/ketamine combinations for the ovariectomy of cats.** *Veterinary Record*. British Veterinary Association, London: The Association. Oct. 27, 1999, v. 127 (17), p. 424-426. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V64

Descriptors: drug comparison, ovariectomy, cats.

Vesal, N.; Cribb, P.H.; Frketic, M., (1996), **Postoperative analgesics and cardiopulmonary effects in dogs of oxymorphone administered epidurally and intramuscularly, and medetomidine administered epidurally: A comparative clinical study.** *Veterinary Surgery*. Philadelphia, PA. W.B. Saunders Company. Jul./Aug. 1996, v. 25 (4), p. 361-369. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: post-operative analgesics, cardiopulmonary effects, dogs, clinical study.

Villar, D.; Buck, W.B.; Gonzalez, J.M., (1998), **Ibuprofen, aspirin and acetaminophen toxicosis and treatment in dogs and cats.** *Veterinary and Human Toxicology*. Manhattan, KS: Kansas State University. Jun. 1998, v. 40 (3), p. 156-162. ISSN: 0145-6296.

NAL Call no: SF601.A47

Descriptors: ibuprofen, aspirin, acetaminophen, toxicosis, cats.

Wagner, A.E., (1999), **Is butorphanol analgesic in dogs and cats.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Group. Apr. 1999, v. 94 (4), p. 346-347, 350. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: butorphanol, analgesic, dogs, cats.

Walla, Leopold, (1994), **Analgesia in old dogs and cats.** *Medycyna Weterynaryjna*. 1994, v. 50 (1), p. 32-33. ISSN: 0025-8628.

Language: Polish.

NAL Call no: 41.8 M463

Descriptors: analgesia, old dogs and cats.

Waterman, A.E.; Kalthum, W., (1992), **Use of opioids in providing postoperative analgesia in the dog: A double-blind trial of pethidine, pentazocine, buprenorphine, and butorphanol.** *Animal pain*. Edited by Charles E. Short, Alan Van Poznak, New York: Churchill Livingstone. 1992, p. 466-476, 479. ISBN: 0443087725.

NAL Call no: SF910.P34.A55 1992

Descriptors: opioids, post-operative analgesia, dog.

Waterman, A.E., (1988), **Analgesia in dogs and cats.** *Journal of Small Animal Practice*. Oxford: Blackwell Scientific Publications. 1988, v. 1, p. 159-181. Ref.

NAL Call no: SF991.A3

Descriptors: analgesia, dogs, cats.

Watson, A.D.J.; Nicholson, A.; Church, D.B.; Pearson, M.R.B., (1996), **Use of anti-inflammatory and analgesic drugs in dogs and cats.** *Australian Veterinary Journal*. Brunswick, Victoria.: Australian Veterinary Association. 1927-Sept. 1996, v. 74 (3), p. 203-210. Ref. ISSN: 0005-0423.

NAL Call no: 41.8 Au72

Descriptors: anti-inflammatory drugs, analgesic drugs, dogs, cats.

Werner, B.E.; Taboada, J., (1994), **Use of analgesics in feline medicine.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems Company. Apr. 1994, v. 16 (4), p. 493-499. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: analgesics, feline medicine.

Winkler, K.P.; Greenfield, C.L.; Benson, G.J., (1997), **The effect of wound irrigation with bupivacaine on postoperative analgesia of the feline onychectomy patient.** *Journal of the American Animal Hospital Association*. Lakewood, CO: The American Animal Hospital Association. Jul./Aug. 1997, v. 33 (4), p. 346-352. ISSN: 0587-2871.

NAL Call no: SF601.A5

Descriptors: wound irrigation, bupivacaine, postoperative analgesia, cat.

Yaksh, Tony L.; Grafe, Marjorie R.; Malkmus, Shelle; Rathbun, Michael; Eisenbach, James C., (1995), **Studies on the safety of chronically administered intrathecal neostigmine methyl sulfate in rats and dogs.** *Anesthesiology*. Hagerstown, 1995, v. 82 (2), p. 412-427. ISSN: 0003-3022.

Descriptors: chronically administered neostigmine, rats, dogs.

Yaksh, Tony L.; Provencher, Jean C.; Rathbun, Michael L.; Kohn, Fred R., (1999), **Pharmacokinetics and efficacy of epidurally delivered sustained-release encapsulated morphine in dogs.** *Anesthesiology*. Hagerstown, May 1999, v. 90 (5), p. 1402-1412. ISSN: 0003-3022.

Descriptors: epidurally, sustained release, morphine, dogs.

Return to: [Title Page](#) / [Table of Contents](#)

Equine

Ball, Michael A.; Peek, Simon, (1996), **Chloral hydrate: A sedative not to be forgotten.** *Equine Practice*. Santa Barbara, CA: Veterinary Practice Publishing Co. v. 18 (9), p. 24-27. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: chloral hydrate, sedative, horses.

Bedford, P., (1987), **Auriculo palpebral and palpebral nerve blocks in the horse.** *In Practice*. London: British Veterinary Association. Mar. 1987, v. 9 (2), p. 63. Ill. ISSN: 0263-841X.

NAL Call no: SF601.I4

Descriptors: palpebral nerve blocks, horse.

Bertone, J.J., (1993), **Critical care in adult horses: Restraint, analgesia, and anti-inflammatory support.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Co. Nov. 1993, v. 88 (11), p. 1066-1073. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: critical care, horses, restraint, analgesia, anti-inflammatory.

Betley, M.; Sutherland, S.F.; Gregoricka, M.J.; Pollet, R.A., (1991), **The analgesic effect of ketoprofen for use in treating equine colic as compared to flunixin meglumine.** *Equine Practice*. Santa Barbara, CA: Veterinary Practice Publishing Company. Jun. 1991, v. 13 (6), p. 11-16. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: analgesic effect, ketoprofen, equine colic.

Boatwright, C.E.; Fubini, S.L.F.; Grohn, Y.T.; Goossens, L., (1996), **A comparison of N-butylscopolammonium bromide and butorphanol tartrate for analgesia using a balloon model of abdominal pain in ponies.** *Canadian*

Journal of Veterinary Research. Canadian Veterinary Medical Association. 1986-Jan. 1996, v. 60 (1), p. 65-68. ISSN: 0830-9000.

NAL Call no: SF601.C24

Descriptors: analgesia, abdominal pain, ponies.

Browning, A.P.; Collins, J.A., (1994), **Sedation of horses with romifidine and butorphanol**. *Veterinary Record*. London: The British Veterinary Association. Jan. 22, 1994, v. 134 (4), p. 90-91. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: sedation , horses, romifidine, butorphanol.

Brunson, D.B.; Majors, L.J., (1987), **Comparative analgesia of xylazine, xylazine/morphine, xylazine/butorphanol, and xylazine/nalbuphine in the horse, using dental dolorimetry**. *American Journal of Veterinary Research*.

Schaumburg, IL: American Veterinary Medical Association. Jul. 1987, v. 48 (7), p. 1087-1091. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: comparative analgesia, horse, dental.

Brunson, D.B.; Collier, M.A.; Scott, E.A.; Majors, L.H., (1987), **Dental dolorimetry for the evaluation of an analgesic agent in the horse**. *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jul. 1987, v. 48 (7), p. 1082-1086. Ill. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: dental, horse, analgesia.

Carter, S.W.; Robertson, S.A.; Steel, C.J.; Jourdenais, D.A., (1990), **Cardiopulmonary effects of xylazine sedation in the foal**. *Equine Veterinary Journal*. Newmarket: R&W Publications. Nov. 1990, v. 22 (6), p. 384-388. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: cardiopulmonary effects, foal, xylazine.

Chambers, J.P.; Livingston, A.; Waterman, A.E.; Goodship, A.E., (1993), **Analgesic effects of detomidine in thoroughbred horses with chronic tendon injury**. *Research in Veterinary Science*. London: British Veterinary Association. Jan. 1993, v. 54 (1), p. 53-56. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: detomidine analgesia, horse, tendon injury.

Corveleyn, S.; Deprez, P.; Van der Weken, G.; Baeyens, W.; Remon, J.P., (1996), **Bioavailability of ketoprofen in horses after rectal administration**. *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1996, v. 19 (5), p. 359-363. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: ketoprofen, rectal administration, horses, bioavailability.

Csik, Salmon Julianna; Blais, Diane; Vaillancourt, Denis; Garon, Oliver; Bisailon, Andre, (1996), **The use of lidocaine-butorphanol combination for caudal epidural anesthesia in the mare**. *Canadian Journal of Veterinary Research*. Ottawa: Canadian Veterinary Medical Association. 1996, v. 60 (4), p. 288-295. ISSN: 0830-9000.

Language: French.

NAL Call no: SF601.C24

Descriptors: caudal epidural anesthesia, mare.

Dart, A.J.; Hodgson, D.R., (1998), **Role of prokinetic drugs for treatment of postoperative ileus in the horse**. *Australian Veterinary Journal*. Brunswick, Victoria: Australian Veterinary Association. v. 76 (1), p. 25-31. ISSN: 0005-0423.

NAL Call no: 41.8 AU72

Descriptors: prokinetic drugs, postoperative ileus, horses.

Daunt, D.A., (1995), **Detomidine in equine sedation and analgesia**. *Compendium on Continuing Education for Practicing Veterinarians*. Trenton, NJ: Veterinary Learning Systems Company. Nov. 1995, v. 17 (11), p. 1405-1411.

ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: detomidine, equine, sedation, analgesia.

Davies, J.V.; Gerring, E.L., (1983), **Effect of spasmolytic analgesic drugs on the motility patterns of the equine small intestine [Welsh pony geldings]**. *Research in Veterinary Science*. London: British Veterinary Association. May 1983, v. 34 (3), p. 334-339. Ill. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: spasmolytic analgesics, equine, motility small intestine.

Doherty, Thomas J.; Andrews, Frank M.; Provenza, Melanie K.; Frazier, Donita L., (1999), **The effect of sedation on gastric emptying of a liquid marker in ponies**. *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Co. v. 28 (5), p. 375-379. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: sedation, gastric emptying, ponies.

Domiquez, J.M.; Gomez Villamandos, R.J.; Santisteban, J.M.; Ruiz, I.; Redondo, J.I.; Avila, I, (1999), **Romifidine-ketamine-halothane anesthesia in horses**. *Equine Practice*. Santa Barbara, CA: Veterinary Practice Publishing. v. 21 (2), p. 20-21. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: anesthesia, horses.

Dyson, S., (1997), **An approach to hind limb lameness. 3. Local analgesic techniques**. *In Practice*. London: British Veterinary Association. 1979-Feb. 1997, v. 19 (2), p. 82-88. ISSN: 0263-841X.

NAL Call no: SF601.I4

Descriptors: hind limb lameness, local analgesics.

Dyson, S. (1997), **An approach to hindlimb lameness. 4. Practical aspects of local analgesia**. *In Practice*. London: British Veterinary Association. 1979-Mar. 1997, v. 19 (3), p. 146-153. ISSN: 0263-841X.

NAL Call no: SF601.I4

Descriptors: hind limb lameness, local analgesia.

Dyson, S., (1995), **Comparison of responses to analgesia of the navicular bursa and intra-articular analgesia of the distal interphalangeal joint in 102 horses**. *Proceedings of the Annual Convention of the American Association of Equine Practitioners*. Lexington, KY: American Association of Equine Practitioners. 1995, v. 41, p. 234-239. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: responses to analgesia, navicular bursa, interphalangeal joint, horses.

Dyson, S.J.; Kidd, L., (1993), **A comparison of response to analgesia of the navicular bursa and intra-articular analgesia of the distal interphalangeal joint in 59 horses**. *Equine Veterinary Journal*. Newmarket: R&R Publications. Mar. 1993, v. 25 (2), p. 93-98. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: response to analgesia, navicular bursa, interphalangeal joint, horses.

England, G.C.W.; Clarke, K.W., (1996), **Alpha-2 adrenoreceptor agonists in the horse. A review**. *British Veterinary Journal*. London: Bailliere Tindall. v. 152 (6), p. 641-657. ISSN: 0007-1935.

NAL Call no: 41.8 V643

Descriptors: agonists, horses, review.

Ford, T.B.; Ross, M.W.; Orsini, P.G., (1989), **A comparison of methods for proximal palmar metacarpal analgesia in horses**. *Veterinary Surgery*. Philadelphia, PA.: J.B. Lippincott Company. Mar./Apr. 1989, v. 18 (2), p. 146-15-. Ill. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: proximal palmar metacarpal analgesia, horses, methods.

Geiser, D.R., (1990), **Chemical restraint and analgesia in the horse.** *Veterinary Clinics of North America Equine Practice*. Philadelphia, PA.: W.B. Saunders. Dec. 1990, v. 6 (3), p. 495-512. ISSN: 0749-0739.

NAL Call no: SF951.V47

Descriptors: chemical restraint, analgesia, horse.

Geiser, D.R.; Henton, J.E., (1988), **Xylazine and butorphanol: Survey of field use in the horse.** *Equine Practice*. Santa Barbara, CA: Veterinary Practice Pub. Co. Jan. 1988, v. 10 (1), p. 7-11. Ref. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: xylazine, butorphanol, field use, horses.

Gerring, E.L.; Davies, J.V., (1982), **Spasmolytic analgesia drugs and small intestinal function in the horse.** *Colloque INRA*. Paris: Institut National de la Recherche Agronomique, 1982, p. 383-384. ISSN: 0293-1915.

NAL Call no: S539.7.C6

Descriptors: spasmolytic analgesia drugs, small intestine function, horses.

Gingerich, D.A.; Rourke, J.E.; Strom, P.W., (1985). **Butorphanol tartrate: A new analgesic to relieve the pain of equine colic.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Co. Aug. 1985, v. 80 (8), p. 72, 74-77. ISSN: 0042-4889.

NAL Call no: 41.8 M69

Descriptors: butorphanol, analgesic, equine colic pain.

Gomez de Segura, I.A.; Rossi, R. de; Santos, M.; San Roman, J.L.; San Roman, F; Tendillo, F.J., (1998), **Epidural injection of ketamine for perineal analgesia in the horse.** [Erratum: Nov./Dec. 1998, v. 27 (6), p. 623]. *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. Jul./Aug. 1998, v. 27 (4), p. 384-391. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: ketamine, perineal analgesia, horse.

Greene, S.A.; Thurmon, J.C., (1985), **Epidural analgesia and sedation for selected equine surgeries.** *Equine Practice*. Santa Barbara, CA.: Veterinary Practice Pub. Co. Feb. 1985, v. 7 (2), p. 14-16, 18-19. Ill. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: epidural analgesia, equine surgeries,

Greene, Stephen A.; Keegan, Robert D., (1994), **Anesthesia for the equine patient with neurologic disease.** *Equine Practice*. Santa Barbara, CA: Veterinary Practice Publishing Co. 1994, v. 16 (4), p. 8-13. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: anesthesia, equine, neurologic disease.

Grubb, T.L.; Riebold, T.W.; Huber, M.J., (1992), **Comparison of lidocaine, xylazine, and xylazine/lidocaine for caudal epidural analgesia in horses.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: The Association. Oct. 15, 1992, v. 291 (8), p. 1187-1190. ISSN: 0003-1488.

NAL Call no: 41.8 Am3

Descriptors: analgesics comparison, horses.

Hamm, D.; Turchi, P.; Jochle, W., (1995), **Sedative and analgesic effects of detomidine and romifidine in horses.** *Veterinary Record*. London: The British Veterinary Association. Apr. 1, 1995, v. 136 (13), p.324-327. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: sedative and analgesic effects, detomidine, romifidine, horses.

Hamm, D.; Jochle, W., (1984), **Sedation and analgesia in horses treated with various doses of domosedan: Blind studies on efficacy and the duration of effects.** *Proceedings of the Annual Convention of the American Association of Equine Practitioners*. Manhattan: The Association. 1984 (pub. 1985) (30th), p. 235-242. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: sedation, analgesia, domosedan, dose, duration of effects, horse.

Hay, W.P.; Moore, J.N., (1997), **Management of pain in horses with colic.** *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, NJ: Veterinary Learning Systems. Aug. 1997, v. 19 (8), p. 987-990. ISSN: 0193-1903.

NAL Call no: SF601.C66

Descriptors: pain management, horses, colic.

Hubbell, J.A.E.; Muir, W.W. III, (1994), **Emergency analgesia and chemical restraint in the horse.** *The Veterinary Clinics of North America Equine Practice*. ISSN: 0749-0739, v. 10 (3).

NAL Call no: SF951.V47 v.10 no.3

Descriptors: emergency analgesia, chemical restraint, horse.

Hubbell, John A.E.; Hinchcliff, Kenneth W.; Schmall, L. Michael; Muir, William W. III; Robertson, James T.; Sams, Richard A., (1999), **Cardiorespiratory and metabolic effects of xylazine, detomidine, and a combination of xylazine and acepromazine administered after exercise in horses.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. v. 60 (10), p. 1271-1279. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: effects, analgesics, after exercise, horses.

Jochle, W.; Woods, G.L.; Little, T.V.; Hillman, R.B.; Ball, B.A., (1991), **Detomidine hydrochloride versus xylazine plus morphine as sedative and analgesic agents for flank laparotomies and ovary and oviduct removal in standing mares.** *Journal of Equine Veterinary Science*. Lake Elsinore, CA.: William E. Jones, DVM. Jul./Aug. 1991, v. 11 (4), p. 225-228. Ref. ISSN:0737-0806.

NAL Call no: SF951.J65

Descriptors: drug comparison, flank laparotomies, mares.

Jochle, W., (1990), **Dose selection for detomidine as a sedative and analgesic in horses with colic from controlled and open clinical studies.** *Journal of Equine Veterinary Science*. Lake Elsinore, CA: William E. Jones, DVM, Jan./Feb. 1990, v. 10 (1), p. 6-11. Ref. ISSN: 0737-0806.

NAL Call no: SF951.J65

Descriptors: detomidine, dose, sedative, analgesic, colic, horses.

Jochle, W., (1984), **Domosedan: A new sedative and analgesic drug for horses with dose-dependent duration of effects: An introduction.** *Proceedings of the Annual Convention of the American Association of Equine Practitioners*. Manhattan: The Association. 1984 (pub. 1985) (30th) p. 221-224. III. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: domosedan, sedative, analgesic, horses, introduction.

Johnson, C.B.; Taylor, P.M.; Young, S.S.; Brearley, J.C., (1993), **Postoperative analgesia using phenylbutazone, flunixin of carprofen in horses.** *Veterinary Record*. London: The British Veterinary Association. Oct. 2, 1993, v. 133 (14), p. 336-338. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: postoperative analgesia, horses.

Johnson, C.B.; Bloomfield, M.; Taylor, P.M., (1999), **Effects of ketamine on the equine electroencephalogram during anesthesia with halothane in oxygen.** *Veterinary Surgery*. v. 28 (5), p. 380-385. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: effects, electroencephalogram, ketamine, halothane, equine.

Jones, R.S., (1989), **The use of detomidine as a premedicant and sedative in horses.** *Veterinary Annual*. London: Wright. 1989, v. 29, p. 175-177. Ref. ISSN: 0083-5870.

NAL Call no: 41.8 V6456

Descriptors: detomidine, sedative, horses.

Kalpravidh, M.; Lumb, W.V.; Wright, M.; Heath, R.B., (1984), **Analgesic effects of butorphanol in horses: Dose-**

response studies. *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Feb. 1984, v. 45 (2), p. 211-216. Ill. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: butorphanol, analgesic effects, horses, dose response.

Kamerling, S.; Wood, T.; DeQuick, D.; Weckman, T.J.; Tai, C.; Blake, J.W.; Tobin, T., (1989), **Narcotics analgesics, their detection and pain measurement in the horse: A review.** *Equine Veterinary Journal*. London: British Equine Veterinary Association. Jan. 1989, v. 21 (1), p. 4-12. Ill. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: narcotic analgesics, detection, pain measurement, horse, review.

Klide, A.M., (1992), **Use of acupuncture for the control of chronic pain and for surgical analgesia.** *Animal pain*. Edited by Charles E. Short, Alan Van poznak, NY: Churchill Livingstone, 1992, p. 249-257. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: acupuncture, pain control, surgical analgesia.

Lavoie, J.P.; Phan, S.T.; Blais, D., (1996), **Effects of a combination of detomidine and butorphanol on respiratory function in horses with or without chronic pulmonary disease.** *American Journal of Veterinary Research*.

Schaumburg, IL: American Veterinary Medical Association. May 1996, v.57 (5), P. 705-709. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: combination detomidine/butorphanol, effect on respiratory function, horses.

Leblanc, P.H.; Eberhart, S.W., (1990), **Cardiopulmonary effects of epidurally administered xylazine in the horse.** *Equine Veterinary Journal*. Newmarket: R&W Publications. Nov. 1990, v. 22 (6), p.389-391. Ref. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: cardiopulmonary effects, epidural xylazine, horse.

Leblanc, P.H.; Caron, J.P.; Patterson, J.S.; Brown, M.; Matta, M.A., (1988), **Epidural injection of xylazine for perineal analgesia in horses.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL: The Association. Dec. 1988, v. 193 (11), p. 1405-1408. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: epidural xylazine, perineal analgesia, horses.

Lees, P.; Meredith, M.J., (1983), **Chemical restraint of large animals.** *Pharmacological Basis of Large Animal Medicine*. Edited by J.A. Bogan, P. Lees and A.T. Yoxall, Oxford: Blackwell Scientific Publications. c1983, p. 452-494. ISBN: 063201055X.

NAL Call no: SF915.P5366

Descriptors: chemical restraint, large animals.

Lowe, J.E.; Hilfiger, J., (1984), **Analgesic and sedative effects of detomidine in a colic model: Blind studies on efficacy and duration of effects.** *Proceedings of the Annual Convention of the American Association Equine Practitioners*. Manhattan: The Association. 1984 (pub. 1985) (30th) p. 225-234. Ill. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: analgesia and sedative effects, detomidine, colic, duration.

Lumb, W.V.; Pippi, N.L.; Kalpravidh, M., (1983), **Evaluation of analgesic drugs in horses.** *Animal pain perception and alleviation*. Edited by Kitchell, R.L. and Erickson, H.H., American Physiological Society, Bethesda, MD, 1983, i-x, 1-221, Chapter pagination: 179-205. Ill.

NAL Call no: QP451.4.A54

Descriptors: analgesic drugs, horses, evaluation.

Mama, K.R.; Steffey, E.P.; Pascoe, P.J., (1996), **Evaluation of propofol for general anesthesia in premedicated horses.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. 1996, v. 57 (4), p. 512-516. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: propofol general anesthesia, pre-medicated horses, evaluation.

Marntell, S.; Nyman, G., (1996), **Effects of additional premedication on romifidine and ketamine anaesthesia in horses.** *Acta Veterinaria Scandinavia.* v. 37 (3), p. 315-325. ISSN: 0044-605X.

NAL Call no: 41.8 AC87

Descriptors: effects, additional premedication, romifidine-ketamine, horses.

Matthews, N.S.; Lindsay, S.L., (1990), **Effect of low-dose butorphanol on halothane minimum alveolar concentration in ponies.** *Equine Veterinary Journal.* Newmarket: R&W Publications. Sept. 1990, v. 22 (5), p. 325-327. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: low dose butorphanol/halothane, alveolar concentration, ponies.

Matthews, Nora S.; Hartsfield, Sandee M.; Hague, Brent; Carroll, Gwen L.; Short, Charles E., (1999), **Detomidine-propofol anesthesia for abdominal surgery in horses.** *Veterinary Surgery.* v. 28 (3), p. 196-201. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: detomidine-propofol anesthesia, abdominal surgery, horses.

McKinnon, A.O.; Carnevale, E.M.; Squires, E.L.; Jochle, W., (1989), **Clinical evaluation of detomidine hydrochloride for equine reproductive surgery.** *Proceedings of the Annual Convention of the American Association of Equine Practitioners,* Manhattan, KS: the Association. 1989 (34th), p. 563-568. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: detomidine, clinical evaluation, equine reproductive surgery.

Merritt, A.M.; Burrow, J.A.; Hartless, C.S., (1998), **Effect of xylazine, detomidine, and a combination of xylazine and butorphanol on equine duodenal motility.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary Medical Association. May 1998, v. 59 (5), p. 619-623. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: analgesic effects on duodenal activity, equine.

Miller, S.M.; Short, C.E.; Ekstrom, P.M., (1995), **Quantitative electroencephalographic evaluation to determine the quality of analgesia during anesthesia of horses for arthroscopic surgery.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary Medical Association. Mar. 1995, v. 56 (3), p. 374-379. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: evaluation or quality of anesthesia, horses, arthroscopic surgery.

Mills, P.C.; Ng, J.C.; Auer, D.E., (1996), **The effect of inflammation on the disposition of phenylbutazone in Thoroughbred horses.** *Journal of Veterinary Pharmacology and Therapeutics.* v. 19 (6), p. 475-481. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: inflammation, disposition, phenylbutazone, horses.

Moore, J.N.; Hardee, M.M.; Hardee, G.E., (1986), **Modulation of arachidonic acid metabolism in endotoxic horses: Comparison of flunixin meglumine, phenylbutazone, and a selective thromboxane synthetase inhibitor.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary Medical Association. Jan. 1986, v. 47 (1), p. 110-113. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: metabolism, endotoxic horses, flunixin, phenylbutazone.

Muir, W.W.; Robertson, J.T., (1985), **Visceral analgesia: Effects of xylazine, butorphanol, meperidine, and pentazocine in horses.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary Medical Association. Oct. 1985, v. 46 (10), p. 2081-2084. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: visceral analgesia, horses.

Muir, William W. III; Gadawski, Jennifer E.; Grosenbaugh, Deborah A., (1999), **Cardiorespiratory effects of a tiletamine/zolazepam-ketamine-detomidine combination in horses.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. v. 60 (6), p. 770-774. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: drug combination, effects, cardiorespiratory, horses.

Owens, J.G.; Kamerling, S.G.; Stanton, S.R.; Keowen, M.L., (1995), **Effects of ketoprofen and phenylbutazone on chronic hoof pain and lameness in the horse.** *Equine Veterinary Journal*. Newmarket, Suffolk: Equine Veterinary Journal Ltd. Jul. 1995, v. 27 (4), p. 296-300. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: chronic hoof pain/lameness, ketoprofen, phenylbutazone, horses.

Owens, Jane G.; Kamerling, Steven G.; Stanton, Shawn R.; Keowen, Michael L., (1996), **Evaluation of detomidine induced analgesia in horses with chronic hoof pain.** *Journal of Pharmacology and Experimental Therapeutics*. 1996, v. 278 (1), p. 179-184. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesia, detomidine, evaluation, pain, horses.

Owens, Jane G.; Kamerling, Steven G.; Stanton, Shawn R.; Keowen, Michael L.; Prescott-Mathews, Judith S., (1996), **Effects of pretreatment with ketoprofen and phenylbutazone on experimentally induced synovitis in horses.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. v. 57 (6), p. 866-874. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: pretreatment, ketoprofen/phenylbutazone, synovitis, horses.

Pascoe, P.J.; Black, W.D.; Claxton, J.M.; Sansom, R.E., (1991), **The pharmacokinetics and locomotor activity of alfentanil in the horse.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford.: Blackwell Scientific Publications. Sept. 1991, v. 14 (3), p. 317-325. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: alfentanil activity, horse.

Prugner, W.; Huber, R.; Luhmann, R., (1991), **Eltenac, a new anti-inflammatory and analgesic drug for horses: Clinical aspects.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Jun. 1991, v. 14 (2), p. 193-199. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: eltenac, anti-inflammatory, analgesic, horses.

Queiroz, Neto A.; Zamur, G.; Goncalves, S.C.; Carregaro, A.B.; Mataqueiro, M.I.; Harkins, J.D.; Tobin, T., (1998), **Characterization of the antinociceptive and sedative effect of amitraz in horses.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, England: Blackwell Scientific Ltd. Oct. 1998, v. 21 (5), p. 400-405. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: antinociceptive/sedative effect, amitraz, horses.

Raekallio, M.; Taylor, P.M.; Bennett, R.C., (1997), **Preliminary investigations of pain and analgesia assessment in horses administered phenylbutazone or placebo after arthroscopic surgery.** *Veterinary Surgery*. Philadelphia, PA.: W.B. Saunders Company. Mar./Apr. 1997, v. 26 (2), p. 150-155. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: pain/analgesia assessment, horses, arthroscopic surgery.

Ramey, Davis W., (1999), **Cold therapy in the horse: Physiological effects of cold therapy.** *Equine Practice*. Santa Barbara, CA: Veterinary Practice Publishing company. v. 21 (1), p. 19-21. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: cold therapy, effects, horse.

Robertson, Sheilah A.; Malark, John A.; Steele, Cynthia J.; Chen-Chao, Ling, (1996), **Metabolic, hormonal, and hemodynamic changes during dopamine infusions in halothane anesthetized horses.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. 1996, v. 25 (1), p. 88-97. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: dopamine, changes metabolic, hormonal, hemodynamic, horses.

Roelvink, M.E.J.; Goossens, L.; Kalsbeek, H.C.; Wensing, T., (1991), **Analgesic and spasmolytic effects of dipyrone, hyoscine-N-butylbromide and a combination of the two in ponies.** *Veterinary Record*. British Veterinary Association. London: The Association. Oct. 26, 1991, v. 129 (17), p. 378-380. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: analgesic/spasmolytic effect, analgesic drugs, ponies.

Roger, T.; Bardon, T.; Ruckebush, Y., (1994), **Comparative effects of mu and kappa opiate agonists on the cecocolic motility in the pony.** *Canadian Journal of Veterinary Research*. Canadian Veterinary Medical Association. 1986-Jul. 1994, v. 58 (3), p. 163-166. ISSN: 0830-9000.

NAL Call no: SF601.C24

Descriptors: effects, opiate agonists, cecocolic activity, pony.

Rutkowski, J.A.; Eades, S.C.; Moore, J.N., (1991), **Effects of xylazine butorphanol on cecal arterial blood flow, cecal mechanical activity, and systemic hemodynamics in horses.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jul. 1991, v. 52 (7), p. 1153-1158. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: xylazine/butorphanol, effects, arterial blood flow, cecal activity, horse.

Rutkowski, J.A.; Ross, M.W.; Cullen, K., (1989), **Effects of xylazine and/or butorphanol or neostigmine on myoelectric activity of the cecum and right ventral colon in female ponies.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jul. 1989, v. 50 (7), p. 1096-1101. Ill. ISSN: 0002-9645.

NAL Call no: 41.8 M3A

Descriptors: xylazine/butorphanol, cecum activity, colon, ponies.

Salonen, J.S.; Vaha-Vahe, T.; Vainio, O.; Vakkuri, O., (1989), **Single-dose pharmacokinetics of detomidine in the horse and cow.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Mar. 1989, v. 12 (1), p. 65-72. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: single dose detomidine, cow, horse.

Schatzmann, U.; Gugelmann, M.; Cranach, J, von; Ludwig, B.M.; Rehm, W.F.; Baumgartner, T.; Stauffer, J.L., (1992), **Visceral and peripheral pain detection models in the horse, using flunixin and carprofen.** *Animal pain*. Edited by Charles E. Short, Alan Van Poznak, NY: Churchill Livingstone, 1992, p. 411-420, 432-433. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: pain, detection models, horse.

Scicluna, Claire, (1995), **Intravenous anaesthetic protocols in the horse.** *Recueil de Medecine Veterinaire de l'Ecole d'Alfort*. v. 171 (10-11), p. 651-660. ISSN: 0034-1843.

Language: French.

NAL Call no: 41.8 R24

Descriptors: anaesthetic, protocols, horse.

Short, C.E., (1995), **Equine pain: Use of nonsteroidal anti-inflammatory drugs and analgesics for its prevention and control.** *Equine practice*. Santa Barbara, CA.: Veterinary Practice Publishing Co. 1979-Nov./Dec. 1995, v. 17 (10), p. 12-22. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: equine pain, prevention, control.

Short, C.E., (1993), **Sedation, analgesia, and anesthesia in equine practice.** *Proceedings of the Annual Convention of the American Association Equine Practitioners.* Lexington, KY: The Association. 1993, p. 37-49. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: equine practice, sedation, analgesia, anesthesia.

Short, C.E.; Kallfelz, F.A.; Otto, K.; Otto, B.; Wallace, R., (1992), **The effects of alpha 2-adrenoreceptor agonist analgesia on the central nervous system in an equine model.** *Animal pain.* Edited by Charles E. Short, Alan Van poznak, NY: Churchill Livingstone. 1992, p. 421-430, 433-434. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: adrenoceptor agonist, analgesia, central nervous system, equine.

Short, C.E.; Otto, K.; Gilbert, M. ; Maylin, G.A., (1989), **The response to detomidine usage as a sole agent or in combination in the horse.** *Proceedings of the Annual Convention of the American Association of Equine Practitioners.*

Manhattan, KS: The Association. 1989 (35th), p. 153-166. Ref. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: detomidine response, horses.

Short, C.E.; Matthews, N.; Tyner, C.L.; Harvey, R., (1984), **Cardiovascular and pulmonary function studies of a new sedative/analgesic (detomidine) for use in horses.** *Proceedings of the Annual Convention of the American Association of Equine Practitioners.* Manhattan: The Association. 1984, (pub. 1985). (30th). p. 243-250, ill. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: cardiovascular/pulmonary function, detomidine, horses.

Short, Charles E., (1995), **Equine pain: Use of nonsteroidal anti-inflammatory drugs and analgesics for its prevention and control.** *Equine Practice.* Santa Barbara, CA: Veterinary Practice Publishing Co. 1995, v.17 (10), p. 12-22. ISSN: 0162-8941.

NAL Call no: SF951.E62

Descriptors: pain prevention/control, analgesics, anti-inflammatory drugs, horses.

Singh, Sukhpal; McDonall, Wayne; Young, Simon S.; Dyson, Doris H., (1996), **Cardiopulmonary and gastrointestinal motility effects of xylazine/ketamine induced anesthesia in horses previously treated with glycopyrrolate.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary medical Association. v. 57 (12), p. 1762-1770. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: effects, xylazine/ketamine, glycopyrrolate, horses.

Skarda, R.T.; Muir, W.W. III, (1992), **Physiologic responses after caudal epidural administration of detomidine in horses and xylazine in cattle.** *Animal pain.* Edited by Charles E. Short, Alan Van Poznak, NY: Churchill Livingstone, 1992, p. 292-302, 312-313. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: physiologic response, detomidine in horses, xylazine in cattle.

Skarda, R.T.; Muir, W.W.; Ibrahim, A.I., (1985), **Spinal fluid concentrations of mepivacaine in horses and procaine in cows after thoracolumbar subarachnoid analgesia.** *American Journal of Veterinary Research.* Schaumburg, IL: American Veterinary Medical Association. May 1985, v. 46 (5), p. 1020-1024. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: spinal fluid concentrations, analgesics, cows, horses.

Skarda, R.T.; Muir, W.W.; Ibrahim, A.I., (1984), **Plasma mepivacaine concentrations after caudal epidural and subarachnoid injection in the horse: Comparative study.** *American Journal of Veterinary Research.* Schaumburg,

IL: American Veterinary Medical Association. Oct. 1984, v. 45 (10), p. 1967-1971. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: plasma concentrations, mepivacaine, horse.

Skarda, R.T.; Muir, W.W. III., (1998), **Influence of atipamezole on effects of midsacral subarachnoidally administered detomidine in mares.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Apr. 1998, v. 59 (4), p. 468-477. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: atipamezole, detomidine, mares.

Skarda, Roman T.; Muir, William W. III, (1999), **Effects of intravenously administered yohimbine on antinociceptive, cardiorespiratory, and postural changes induced by epidural administration of detomidine hydrochloride solution to healthy mares.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. v. 60 (10), p. 1262-1270. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: effects, yohimbine, postural changes, detomidine, mares.

Stick, J.A.; Loeffler, B.S.; Arden, W.A.; Chou, C.C., (1989), **Effects of butorphanol tartrate on arterial pressure, jejunal blood flow, vascular resistance, O₂ extraction, and O₂ uptake in halothane-anesthetized ponies.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Aug. 1989, v. 50 (8), p. 1202-1206. III. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: butorphanol, arterial pressure, jejunal blood flow, ponies.

Still, J.; Serteyn, D.; Van Der Merwe, C.A., **Cardiovascular and respiratory effects of detomidine in isoflurane anaesthetized horses.** *Journal of the South African Veterinary Association*. v. 67 (4), p. 199-203. ISSN: 0301-0732.

NAL Call no: 41.8 S08

Descriptors: cardiovascular, respiratory, effects, detomidine, horses.

Sysel, Annette M.; Pleasant, R. Scott; Jacobson, John D.; Moll, H. David; Warnick, Lorin D; Sponenburg, D. Phillip; Eyre, Peter, (1997), **Systematic and local effects associated with long-term epidural catheterization and morphine-detomidine administration in horses.** *Veterinary Surgery*. Philadelphia, PA.: W.B. Saunders Company. v. 26 (2), p. 141-149. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: effects, long-term catheterization, morphine-detomidine, horses.

Sysel, Annette M.; Pleasant, R. Scott; Jacobson, John D.; Moll, H. David; Modansky, Paula D.; Warnik, Lorin D.; Sponenburg, D. Phillip; Eyre, Peter, (1996), **Efficacy of an epidural combination of morphine and detomidine in alleviating experimentally induced hindlimb lameness in horses.** *Veterinary Surgery*. Philadelphia, PA: W.B. Saunders Company. 25 (6), p. 511-518. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: epidural, morphine-detomidine, hindlimb lameness, horses.

Szoke, M.O.; Blais, D.; Cuvelliez, S.G.; Lavoie, J.P., (1998), **Effects of buprenorphine on cardiovascular and pulmonary function in clinically normal horses and horses with chronic obstructive pulmonary disease.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Oct. 1998, v. 59 (10), p. 1287-1291. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: cardiovascular/pulmonary function, normal horses, chronic obstructive pulmonary disease.

Taylor, P.M.; Luna, S.P.L.; Sear, J.W.; Wheeler, M.J., (1995), **Total intravenous anaesthesia in ponies using detomidine, ketamine and guaiphensin: Pharmacokinetics, cardiopulmonary and endocrine effects.** *Research in Veterinary Science*. London: British Veterinary Association. 1960-July 1995, v. 59 (10), p. 17-23. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: ponies, intravenous analgesics, cardiopulmonary and endocrine effects.

Taylor, P.M., (1985), **Chemical restraint of the standing horse.** *Equine Veterinary Journal*. London: British Veterinary Association. Jul. 1985, v. 17 (4), p. 269-273. ISSN: 0425-1644.

NAL Call no: SF955.E6

Descriptors: chemical restraint, horse, standing horse.

Thurmon, J.C., (1989), **Injectable anesthesia in horses.** *Proceedings of the Annual Convention of the American Association of Equine Practitioners*. Manhattan, KS: The Association. 1989 (34th), p. 529-541. ISSN: 0065-7182.

NAL Call no: SF601.A46

Descriptors: injectable anesthesia, horses, pain.

Thurmon, J.C.; Benson, G.J.; Tranquilli, W.J., (1985), **Injectable anesthesia for horses.** *Modern Veterinary Practice*. Santa Barbara, CA.: American Veterinary Publications. Oct. 1985, v. 66 (10), p. 745-750. ISSN: 0362-8140.

NAL Call no: 41.8 N812

Descriptors: horses, anesthesia, injectable anesthesia.

Tomasic, Michael; Mann, Lori S.; Soma, Lawrence R., (1997), **Effects of sedation, anesthesia, and endotracheal intubation on respiratory mechanics in adult horses.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. v. 58 (6), p. 641-646. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: effects. sedation, anesthesia, intubation, respiratory mechanics, horses.

Varshney, J.P.; Uppal, P.K.; Yadav, M.P., (1996), **Evaluation of xylazine hydrochloride as sedative in donkeys.** *Indian Veterinary Journal*. v. 73 (1), p. 24-27. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: evaluation, xylazine, donkey, sedative.

Young, D.B.; Ewing, P.J.; Burrows, G.E.; Lessley, B.A.; Clarke, C.R.; Shawley, R.V., (1994), **Effects of phenylbutazone on thiamylal disposition and anesthesia in ponies.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. 1994, v. 17 (5), p. 389-393. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: ponies, anesthesia, phenylbutazone, thiamylal.

Return to: [Title Page](#) / [Table of Contents](#)

Ferrets

Ko, Jeff C.H.; Heaton Jones, Terrell; Nicklin, Constance F., (1997), **Evaluation of the sedative and cardiorespiratory effects of medetomidine, medetomidine-butorphanol, medetomidine-ketamine, and medetomidine-butorphanol-ketamine in ferrets.** *Journal of the American Animal Hospital Association*. Lakewood, CO.: The Association. v. 33 (5), p. 438-448. ISSN: 0587-2781.

NAL Call no: SF601.A5

Descriptors: evaluation, analgesic combinations, ferret.

Ko, Jeff C.H.; Nicklin, Constance F.; Montgomery, Theresa; Kuo Wei, Chen, (1998), **Comparison of anesthetic and cardiorespiratory effects of tiletamine-zolazepam-xylazine and tiletamine-zolazepam-xylazine-butorphanol in ferrets.** *Journal of the American Animal Hospital Association*. Lakewood, CO.: The Association. v. 34 (2), p. 164-174. ISSN: 0587-2781.

NAL Call no: SF601.A5

Descriptors: drug combinations, ferret, anesthetic, cardiorespiratory.

Ko, Jeff C.H.; Smith, Thom A.; Kuo Wei, Chen; Nicklin, Constance F., (1998), **Comparison of anesthetic and cardiorespiratory effects of diazepam-butorphanol-ketamine, acepromazine-butorphanol-ketamine, and xylazine-butorphanol-ketamine in ferrets.** *Journal of the American Animal Hospital Association*. Lakewood, CO.: The Association. v.34 (5), p. 407-416. ISSN: 0587-2781.

NAL Call no: SF601.A5

Descriptors: drug combinations, anesthesia, ferret.

Ko, Jeff C.; Villarreal, Alexander; Kuo Wei, Chen; Nicklin, Constance F., (1998), **Evaluation of sedative and cardiorespiratory effects of diazepam-butorphanol, acepromazine-butorphanol, and xylazine-butorphanol in ferrets.** *Journal of the American Animal Hospital Association*. Lakewood, CO.: The Association. v. 34 (3), p. 242-250. ISSN: 0587-2781.

NAL Call no: SF601.A5

Descriptors: drug combinations, sedative, cardiorespiratory, ferrets.

Ko, Jeff C.; Nicklin, Constance F.; Heaton Jones, Terrel G.; Kuo Wei, Chen, (1998), **Comparison of sedative and cardiorespiratory effects of diazepam, acepromazine, and xylazine in ferrets.** *Journal of the American Animal Hospital Association*. Lakewood, CO.: The Association. v. 34 (3), p. 234-241. ISSN: 0587-2781.

NAL Call no: SF605.A5

Descriptors: drug effects, ferret, analgesics.

Payton, A.J.; Pick, J.R., (1989), **Evaluation of tiletamine and zolazepam as an anesthetic for ferrets.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. v. 39 (3), p. 243-246. ISSN: 0023-6764.

NAL Call no: 410.9 P94

Descriptors: tiletamine, zolazepam, anesthetic, ferrets.

Return to: [Title Page](#) / [Table of Contents](#)

Fish/Crabs/Snails/Shrimp/Molluscs/Shellfish

Akhlaghi, M.; Mirab-Brojerdi, M., (1999), **Anesthetic effect of clove tree and LC sub(50) determination in rainbow trout (*Oncorhynchus mykiss*).** *Journal of the Faculty of Veterinary Medicine*. University of Tehran. v. 54 (2), p. 52-57. ISSN: 1022-646X.

Descriptors: clove tree, anesthetic, trout.

Allen, John L.; Sills, Joe B., (1973), **Preparation and properties of quinaldine: An improved fish anesthetic.** *Investigations in fish control*. U.S. Fish & Wildlife Service. 7 p., ill. ISSN: 0565-0704, no. 47.

NAL Call no: SH157.7.I58 no. 47

Descriptors: quinaldine anesthetic, fish.

Amend, D.F.; Goven, B.A.; Elliot, D.G., (1982), **Etomidate: Effective dosages for a new fish anesthetic.** *Transactions of the American Fisheries Society*. v. 111 (3), p. 337-341. ISSN:0002-8487.

NAL Call no: 414.9 AM3

Descriptors: anesthetics, ornamental fish, etomidate.

Anderson, W.G.; McKinley, R.S.; Colavecchia, M., (1997), **The use of clove oil as an anesthetic for rainbow trout and its effects on swimming performance.** *North American Journal of Fisheries Management*. v. 17 (2), p. 301-307. ISSN: 0275-5947.

NAL Call no: SH219.N66

Descriptors: anesthesia, rainbow trout, swimming.

Auperin, B.; Goardon, L.; Quemeneur, A.; Thomas, J.L.; Aubin, J.; Valotaire, C.; Rouger, Y.; Maise, G., (1998), **Preliminary study on the use of aqui'S as anesthetic for handling and sampling of rainbow trout (*Oncorhynchus mykiss*) and brown trout (*Salmo trutta*).** *Environmental factors and fish biology: Conference IFR 43 Federative Institute for Research for Fish Biology and Ecology*. 1998 no. 350-351, p. 291-301. ISSN: 0767-2861.

Language: French;

NAL Call no: SH1.B78

Descriptors: anesthesia, stress, trout.

Barham, W.T.; Schoonbee, H.J.; Visser, J.G., (1987), **The use of electronarcosis as anaesthetic in the cichlid, *Oreochromis mossambicus* (Peters).I. General experimental procedures and the role of fish length on the narcotizing effects of electric currents.** *Onderstepoort Journal of Veterinary Research*. Onderstepoort Veterinary Institute, Agricultural Research Council. v. 54 (4), p.617-622. ISSN: 0030-2465.

NAL Call no: 41.8 ON1

Descriptors: electronarcosis, fish, anaesthetic.

Bell, G.R., (1987), **An outline of anesthetics and anesthesia for salmonids, a guide for fish culturists in British Columbia.** *Canadian Technical Report of Fisheries and Aquatic Sciences*. no. 1534, 21 p. ISSN: 0706-6457.

NAL Call no: SH1.C32

Descriptors: anaesthetics, Salmonidae.

Bernier, N.J.; Randall, D.J., (1998), **Carbon dioxide anaesthesia in rainbow trout: Effects of hypercapnic level and stress on induction and recovery from anaesthetic treatment.** *Journal of Fish Biology*. v.52 (3), p. 621-637. ISSN: 0022-1112.

NAL Call no: QL614.J68

Descriptors: anaesthesia, rainbow trout, respiration.

Bower, J.R.; Sakurai, Y.; Yamamoto, J.; Ishii, H., (1999), **Transport of the ommastrephid squid *Todarodes pacificus* under cold-water anesthesia.** *Aquaculture*. v. 170 (2), p. 127-130. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anesthesia, squid, transportation.

Brown, L.A., (1987), **Recirculation anaesthesia for laboratory fish.** *Laboratory Animals*. London: Royal Society of Medicine Services. Jul.1987, v. 21 (3), p. 210-215, ill. ISSN: 0023-6772. Ref.

NAL Call no: QL55.A1L3

Descriptors: anaesthesia, circulation, fish.

Brown, L.A., (1988), **Tropical fish medicine. Anesthesia is fish.** *Veterinary Clinics of North America Small Animal Practice*. Philadelphia, PA: W.B. Saunders Company. Mar. v. 18 (2), p. 317-330. ISSN: 0195-5616.

NAL Call no: SF601.V523

Descriptors: tropical fish, anesthesia.

Brown, L.A., (1987), **Recirculation anaesthesia for laboratory fish.** *Laboratory Animals*. London: Royal Society of Medicine Services. v. 21 (3), p.210-215. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: anesthesia, recirculating systems.

Bruecker, P.; Graham, M., (1993), **The effects of the anesthetic ketamine hydrochloride on oxygen consumption rates and behavior in the fish *Heros (Cichlasoma) citrinellum*.** *Comparative Biochemistry and Physiology*. v. 104C (1), p. 57-59. ISSN: 0306-4492.

NAL Call no: QP901.C6

Descriptors: oxygen consumption, anesthetic, ketamine, fish.

Carrasco, S.; Sumano, H.; Navarro-Fierro, R., (1984), **The use of lidocaine-sodium bicarbonate as anaesthetic in fish.** *Aquaculture*. v. 41 (4), p. 395-398. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anesthetics, lidocaine, fish.

Chung, K.S., (1980), **Cold anaesthesia of tropical fish.** *Bulletin of the Japan Society for Science and Fisheries.* v. 46 (3), p.391.

Descriptors: tropical fish, anesthesia, cold.

Culloty, S.C.; Mulcahy, M.F., (1992), **An evaluation of anaesthetics for *Ostrea edulis* (L.).** *PAMAQ IV: Fourth International Colloquium on Pathology in Marine Aquaculture.* Banning, P. van, ed. v. 107 (2-3), p. 249-252. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: oysters, anaesthesia.

Dawson, Verdel K.; Gilderhus, Philip, A., (1979), **Ethyl-p-aminobenzoate (Benzocaine): Efficacy as an anesthetic for five species of fresh water fish.** *Investigations in fish control.* U.S. Fish & Wildlife Service. ISSN: 0565-0704. 5 p.

NAL Call no: SH157.7.I58 no. 87

Descriptors: Benzocaine, anesthetic, fish.

Ehrensing, R.H.; Michell, G.F.; Kastin, A.J., (1982), **Similar antagonism of morphine analgesia by MIF-1 and naloxone in *Carassius auratus*.** *Pharmacology, Biochemistry and Behavior.* v. 17 (4), p. 757-761. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: naloxone, analgesia, pain perception.

Ehteshami, F., (1993), **Anaesthetizing *Pinctada radiata* with MS 222.** *Iran Fish Bulletin.* no. 3, p. 1.

Descriptors: anaesthesia, Pinctada, oysters, MS 222.

Farwell, C.J., (1978), **The use of the fish anesthetic quinaldine at Scripps aquarium-museum.** *Annual Proceedings of the American Association of Zoological Parks and Aquariums.* 1978, p. 61-71.

NAL Call no: QL76.5 U6A472

Descriptors: anesthetics, fish, quinaldine.

Ferreira, J.T.; Schoonbee, H.J.; Smit, G.L., (1984), **The anaesthetic potency of benzocaine-hydrochloride in three freshwater fish species.** *South African Journal of Zoology.* v. 19 (1), p. 46-50. ISSN:0254-1858.

NAL Call no: QL336.Z6

Descriptors: benzocaine, freshwater fish, anesthetic.

Garcia, Franco M., (1992), **Anaesthetics for the squid *Sepioteuthis sepioidea* (Mollusca: Cephalopoda).** *Comparative Biochemistry and Physiology.* v. 103C (1), p. 121-123.

NAL Call no: QP901.C6

Descriptors: anaesthetics, marine molluscs, squid.

Gilderhus, Philip A., (1973), **The efficacy of quinaldine sulfate as an anesthetic for fresh water fish.** *Investigations in fish control.* U.S. Fish & Wildlife Service. 9 p. ISSN: 0565-0704.

NAL Call no: SH157.7.I58 no.49

Descriptors: quinaldine, fish, anesthetic.

Gleadall, I.G., (1991), **Comparison of anaesthetics for octopuses.** *Bulletin of Marine Science.* v. 49 (1-2), p. 663. ISSN: 0007-4977.

Descriptors: anaesthetics, octopuses.

Graham. M.S.; Iwama, G.K., (1990), **The physiologic effects of the anesthetic ketamine hydrochloride on two salmonid species.** *Aquaculture.* v. 90 (3-4), p. 323-331. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anesthetics, salmonids, ketamine hydrochloride.

Gunstrom, G.K.; Bethers, M., (1985), **Electrical anesthesia for handling large salmonids.** *Progress in fish Culture.* v.

47 (1), p. 67-69.

Descriptors: salmonids, electrical anesthesia.

Hayton, W.L.; Szoke, A.; Kemmenoe, B.H.; Vick, A.M., (1996), **Disposition of benzocaine in the channel catfish.** *Aquatic Toxicology*. Amsterdam: Elsevier Science Publishers B.V. v. 36 (1-2), p. 99-113. ISSN: 0166-445X.

NAL Call no: QH541.5.W3A6

Descriptors: benzocaine, catfish, disposition.

Heasman, M.P.; O'Connor, W.A.; Frazer, A.W.J., (1995), **Induction of anaesthesia in the commercial scallop, *Pecten fumatus* Reeve.** *Aquaculture*. v. 131 (3-4), p. 231-238. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anaesthesia, scallop.

Hikasa, Y.; Takase, K.; Ogasawara, T.; Ogasawara, S., (1986), **Anesthesia and recovery with tricaine methanesulfonate, eugenol and thiopental sodium in the carp, *Cyprinus carpio*.** *Japanese Journal of Veterinary Science*. v. 48 (2), p. 341-351. ISSN: 0021-5295.

NAL Call no: 41.8 J27

Descriptors: carp, anesthesia.

Hovda, J.; Linley, T.J., (2000), **The Potential Application of Hypothermia for Anesthesia in Adult Pacific Salmon.** *North American Journal of Aquaculture*. v. 62 (10), p. 67-72. ISSN: 1522-2055.

NAL Call no: SH1.N66

Descriptors: hypothermia, salmon, anesthesia.

Howland, Robert M.; Schoettger, Richard A., (1969), **Efficacy of methylpentynol as an anesthetic on four salmonids.** *Investigations in fish control* 29. U.S. Fish & Wildlife Service 11 p. ISSN: 0565-0704, no. 29.

NAL Call no: SH157.7.I58 no. 29.

Descriptors: salmonids, anesthesia, methylpentynol.

Hseu, J.R.; Yeh, S.L.; Chu, Y.T.; Ting, Y.Y., (1995), **Application of sodium bicarbonate and sulfuric acid for anesthetization of black porgy *Acanthopagrus schlegeli*.** *Journal of Taiwan Fisheries Research*. v. 3 (2), p. 151-159. ISSN: 1018-7324.

NAL Call no: SH1.S48

Descriptors: sodium bicarbonate, sulfuric acid, anesthesia, fish.

Iwama, G.K.; Mcgeer, J.C.; Pawluk, M.P., (1989), **The effects of five fish anaesthetics on acid-base balance, hematocrit, blood gases, cortisol, and adrenaline in rainbow trout.** *Canadian Journal of Zoology*. v. 67 (8), p. 2065-2073. ISSN: 0008-4301.

NAL Call no: 470 C16D

Descriptors: anesthetics, fish, mykiss, effects.

Jennings, C.A.; Looney, G.L., (1998), **Evaluation of two types of anesthesia for performing surgery on striped bass.** *North American Journal of Fish Management*. v. 18 (1), p. 187-190. ISSN: 0275-5947.

NAL Call no: SH219.N66

Descriptors: anesthesia, fish, fish biology.

Kavaliers, M; Ossenkopp, K.P., (1993), **Repeated naloxone treatments and exposure to weak 60-Hz magnetic fields have analgesic effects in snails.** *Brain research*. v. 620 (1), p. 159-162, ill. ISSN: 0006-8993.

NAL Call no: Film S-1779

Descriptors: naloxone, magnetism, snails, analgesia.

Kavaliers, M., (1991), **Opioid peptides, nociception and analgesia in molluscs.** *Studies in Neuroscience*. no. 11, p. 87-96.

NAL Call no: QP552.N39C65 1990

Descriptors: opioids, analgesia, molluscs.

- Kavaliers, M.; Hirst, M., (1986), **Stress-induced analgesia and feeding in the slug, *Limax maximus***. *Annals of the New York Academy of Sciences*. v. 467, p. 439-440. ISSN: 0077-8923.
NAL Call no: 500 N484
Descriptors: analgesia, stress, slug.
- Kavaliers, M.; Tepperman, F.S., (1988), **Exposure to novel odours induces opioid-mediated analgesia in the land snail, *Cepaea nemoralis***. *Behavioral and Neural Biology*. v. 50 (3), p. 285-299, ill. ISSN: 0163-1047.
NAL Call no: QH301.C63
Descriptors: odours, analgesia, snail.
- Kavaliers, M., (1988), **Novelty-induced opioid analgesia in the terrestrial snail, *Cepaea nemoralis***. *Physiology and Behavior*. v. 42 (1), p. 29-32, ill. ISSN: 0031-9384.
NAL Call no: QP1.P4
Descriptors: analgesia, novelty induced, snail.
- Kavaliers, M., (1987), **Evidence for opioid and non-opioid forms of stress-induced analgesia in the snail, *Cepaea nemoralis***. *Brain Research*. v. 410 (1), p. 111-115, ill. ISSN: 0006-8993.
NAL Call no: Film S-1779
Descriptors: stress-induced analgesia, snail.
- Keene, J.L.; Noakes, D.L.G.; Moccia, R.D.; Soto, C.G., (1998), **The efficacy of clove oil as an anaesthetic for rainbow trout, *Oncorhynchus mykiss* (Walbaum)**. *Aquaculture Research*. v. 29 (2), p.89-101. ISSN: 1355-557X.
NAL Call no: SH1.F8
Descriptors: anaesthetics, effects, rainbow trout.
- Kidd, R.B.; Banks, G.D., (1990), **Anesthetizing lake trout with Tricaine (MS 222) administered from a spray bottle**. *Progress in Fish Culture*. v. 52 (4), p. 272-273.
Descriptors: anaesthesia, lake trout, MS 222.
- Kolz, M.L., (1989), **Current and power determinations for electrically anesthetized fish**. *Progress in Fish Culture*. v. 51 (3), p. 168-169.
Descriptors: gold fish, electrodes.
- Krum, H.N., (1998), **Fish Surgical Techniques**. *Proceedings of the North American Veterinary Conference*. Eastern States Veterinary Association. 1992-1998, v. 12, p. 737-738.
NAL Call no: SF605.N672
Descriptors: fishes, surgical operations, anesthesia.
- Lemm, Carol A., (1993), **Evaluation of five anesthetics on striped bass**. *Resource publication*. U.S. Fish & Wildlife Service, Pub.196, 17 p.
NAL Call no: SH156.9.L46 1993
Descriptors: stiped bass, anesthetics.
- MacKinlay, D.D.; Johnson, M.V.D.; Celli, D.C., (1994), **Evaluation of stress of carbon dioxide anaesthesia**. *Fish physiology symposium*. Vancouver, BC, Canada, 16-21 July 1994. MacKinley, D.D. Ed. Fish Physiology Association. p. 421-424. ISBN: 0969863101.
NAL Call no: QL639.1.I58 1994
Descriptors: stress, anaesthesia, carbon dioxide.
- Maldonado, H; Miralto, A., (1982), **Effect of morphine and naloxone on a defensive response of the mantis shrimp (*scquilla mantis*)**. *Journal of Comparative Physiology*. v. 147A (4), p. 455-459. ISSN: 0302-9824.
NAL Call no: QP33.J68
Descriptors: morphine, naloxone, shrimp, effect.

Malmstrom, T.; Salte, R.; Gjoen, H.M.; Linseth, A., (1993), **A practical evaluation of metomidate and MS-222 as anaesthetics for Atlantic halibut (*Hippoglossus hippoglossus* L.)**. *Aquaculture*. v. 113 (4), p. 331-338. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anaesthetics, Hippoglossus, halibut.

Marking, Leif L.; Dawson, Verdel K., (1973), **Toxicity of quinaldine sulfate to fish**. *Investigations in fish control*. U.S. Fish & Wildlife Service, 8 p. ISSN: 0565-0704, no 48.

NAL Call no: SH157.7.I58 no. 48

Descriptors: toxicity, quinaldine sulfate, fish.

Massee, K.C.; Rust, M.B.; Hardy, R.W.; Stickney, R.R., (1995), **The effectiveness of tricaine, quinaldine sulfate and medomidate as anesthetics for larval fish**. *Aquaculture*. v. 134 (3-4), p. 351-359. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: fish larvae, anesthetics, survival.

Mattson, N.S.; Rippe, T.H., (1989), **Metomidate, a better anesthetic for cod (*Gadus morhua*) in comparison with Benzocaine, MS 222, chlorbutanol, and phenoxyethanol**. *Aquaculture*. v. 83 (1-2), p. 89-94. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anesthesia, cod, metomidate.

Meinertz, J.R.; Stehly, G.R.; Gingerich, W.H., (1996), **Pharmacokinetics of benzocaine in rainbow trout (*Oncorhynchus mykiss*) after intraarterial dosing**. *Aquaculture*. v. 148 (1), p. 39-48. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: benzocaine, trout, pharmacokinetics.

Mills, D.; Tlili, A.; Norton, J., (1997), **Large-scale anesthesia of the silver-lip pearl oyster, *Pinctada maxima* Jameson**. *Journal of Shellfish Research*. v. 16 (2), p. 573-574. ISSN: 0077-5711.

NAL Call no: SH365.A1J6

Descriptors: oysters, anesthesia.

Morales, A.E.; Garcia, Rejon L.; Higuera, M. de la., (1989), **Use of anaesthesia in situ for handling stress suppression in rainbow trout**. *Presented at the International Aquaculture Conference*. Held in Bordeaux, France, 2-4 Oct.1989, no. 10, p. 173-174. ISBN: 9071625052.

NAL Call no: SH138.S64 no. 10

Descriptors: laboratory culture, stress, anaesthesia, trout.

Munday, P.L.; Wilson, S.K., (1997), **Comparative efficacy of clove oil and other chemicals in anaesthetization of *Pomacentrus amboinensis*, a coral reef fish**. *Journal of Fish Biology*. v. 51 (5), p. 931-938. ISSN: 0022-1112.

NAL Call no: QL614.J68

Descriptors: anaesthesia, marine fish.

Olsen, Y.A.; Einarsdottir, I.E.; Nilssen, K.J., (1995), **Metomidate anaesthesia in Atlantic salmon, *Salmo salar*, prevents plasma cortisol increase during stress**. *Aquaculture*. v. 134 (1-2), p. 155-168. ISSN: 0044-8486.

NAL Call no: SH1.A6

Descriptors: anaesthetics, stress, salmon.

Orsi, J.A.; Short, J.W., (1987), **Modifications of electrical anesthesia for salmonids**. *Progress in Fish Culture*. v. 49 (2), p. 144-146.

Descriptors: anesthesia, electrical, salmonids.

Parma de Croux, M.J., (1990), **Benzocaine (ethyl-p-aminobenzoate) as an anaesthetic for *Prochilodus lineatus* Valenciennes (Pisces, Curimatidae)**. *Journal of Applied Ichthyology*. v. 6 (3), p. 189-192. ISSN: 0175-8659.

NAL Call no: QL614.Z44

Descriptors: benzocaine, anaesthesia, fish.

Peake, S., (1998), **Sodium bicarbonate and Clove Oil as Potential Anesthetics for Nonsalmonid Fishes.** *North American Journal of Fisheries Management.* v. 18 (4), p. 919-924. ISSN: 0275-5947.

NAL Call no: SH219.N66

Descriptors: anesthesia, clove oil, sodium bicarbonate, fish.

Plumb, J.A.; Schwedler, T.E.; Limsuwan, C., (1983), **Experimental anesthesia of three species of fresh water fish with etomidate , Notemigonus crysoleucas, Morone saxatilis, Ictalurus punctatus.** *Progress in Fish Culture.* U.S. Fish & Wildlife Service. v. 45 (1), p. 30-33. ISSN: 0033-0779. Ref.

NAL Call no: 157.5 P94

Descriptors: anesthesia, fish, etomidate.

Post, G., (1979), **Carbonic acid anesthesia for aquatic organisms.** *The Progressive Fish Culturist.* v. 41 (3), p. 142-144. ISSN: 0033-0779.

NAL Call no: 157.5 P94

Descriptors: carbonic acid, anesthetics.

Prince, A.M.J.; Low, S.E.; Lissimore, T.J.; Diewert, R.E.; Hinch, S.G., (1995), **Sodium bicarbonate and acetic acid: An effective anesthetic for field use.** *North American Journal of Fish Management.* v. 15 (1), p. 170-172. ISSN: 0275-5947.

NAL Call no: SH219.N66

Descriptors: anesthesia, Pisces, sodium bicarbonate.

Quinn, T.P; Olson, A.F.; Konecki, J.T., (1988), **Effects of anaesthesia on the chemosensory behavior of Pacific salmon.** *Journal of Fish Biology.* v. 33 (4), p. 637-641. ISSN: 0022-1112.

NAL Call no: QL614.J68

Descriptors: chemoreception, anaesthetics, salmon.

Ross, Lindsay G.; Ross, Barbara, (1984), **Anaesthetic and sedative techniques for fish.** Stirling Scotland: Institute of Aquiculture, University of Stirling, 1984, vii, 35 p. ; ill. ISBN: 0901636525.

NAL Call no: SH156.9.R6 1984

Descriptors: fish, anaesthetic, sedative.

Ryan, S. (1992), **The dynamics of MS 222 anaesthesia in a marine teleost (Pagrus auratus: Sparidae).** *Comparative Biochemistry and Physiology.* v. 101C (3), p. 593-600.

NAL Call no: QP901.C6

Descriptors: fish physiology, anaesthetics.

Schoettger, Richard A.; Julin, Arnold M., (1969), **Efficacy of quinaldine as an anesthetic for seven species of fish.** *Investigations in fish control.* U.S. fish & wildlife Service, Bureau of Sport Fisheries & Wildlife. (1969) 10 p. ISSN; 0565-0704.

NAL Call no: SH157.7 no. 22

Descriptors: quinaldine, anesthetic, fish.

Sedgwick, C. J., (1986), **Anesthesia for fish.** *Veterinary Clinics of North America Food Animal Practice.* v. 2 (3), p. 737-742. *Anesthesia.* Edited by J.C. Thurmon, W. B. Saunders Company. Nov. 1986.

NAL Call no: SF601.V535

Descriptors: fishes, anesthesia.

Smit, G.L.; Hattingh, J., (1979), **Anaesthetic potency of MS 222 and neutralized MS 222 as studied in three freshwater fish species.** *Comparative Biochemistry and Physiology.* v. 62C (2), p. 237-241.

NAL Call no: QP901.C6

Descriptors: anaesthetics, fish.

Smith, D.A.; Smith, S.A.; Holladay, S.D., (1999), **Effect of Previous Exposure to Tricaine Methanesulfonate on**

time to Anesthesia in Hybrid Tiapias. *Journal of Aquatic Animal Health.* v. 11 (2), p. 183-186. ISSN: 0899-7659.

NAL Call no: SH171.J68

Descriptors: hybrids, anesthesia, fish, tolerance.

Soto, C., (1995), **Clove oil: A fish anaesthetic.** *Window newsletter.* v. 6 (2), p. 2-3. ISSN: 1024-4158.

Descriptors: clove oil, anesthetic, fish.

Stehly, G.R.; Gingerich, W.H., (1999), **Evaluation of AQUI-S (efficacy and minimum toxic concentration) as a fish anaesthetic/sedative for public aquaculture in the United States.** *Aquaculture Research.* v. 30 (5), p. 365-372.

ISSN: 1355-557X.

NAL Call no: SH1.F8

Descriptors: anaesthetics, sedatives, fish.

Sterritt, D.A.; Elliott, S.T.; Schmidt, A.E., (1994), **Electrical anesthesia for immobilizing adult coho salmon in freshwater.** *North American Journal of Fish Management.* v. 14 (2), p. 453-456. ISSN: 0275-5947.

NAL Call no: SH219.N66

Descriptors: anesthesia, coho salmon, electrical.

Suryaningrum, T.D.; Suparno; Wibowo, S.; Erlina, M.D., (1997), **Anaesthetization of lobster by a direct cooling technique for live transport in a dry pack system.** *Asia Pacific Fishery Commission, Summary report of and papers presented at the tenth session of the Working Party of Fish Technology and Marketing.* Jun. 1996, James, D.G. ed., 1997, p. 149-154. ISSN: 0429-9337. ISBN: 9251040354.

Descriptors: anaesthesia, lobster, transportation.

Tamaru, C.S.; Carlstrom-Trick, C.; Fitzgerald, W.J. Jr., (1996), **Clove oil, mynyak cengken, a natural fish anesthetic.** *Proceedings of the PACON Conference on Sustainable Aquaculture.* 1995-1996, p. 365-371.

NAL Call no: TC1505.P33 1995

Descriptors: anesthetic, fish.

Tysdale, D.M.; Lipa, S.M.; Ossenkopp, K.P.; Kavaliers, M., (1991), **Inhibitory effects of 60-Hz magnetic fields on opiate-induced analgesia in the land snail, *Cepaea nemoralis*, under natural conditions.** *Physiology and Behavior.* v. 49 (1), p. 53-56, ill. ISSN: 0031-9384.

NAL Call no: QP1.P4

Descriptors: magnetic fields, analgesia, snail.

Valeggia, C.; Fernandez, Duque E.; Maldonado, H., (1989), **Danger stimulus-induced analgesia in the crab *Chasmagnathus granulatus*.** *Brain Research.* v. 481 (2), p. 304-308, ill. ISSN: 0006-8993.

NAL Call no: Film S-1779

Descriptors: analgesia, crab.

Vermeer, G.K.; Falls, B., (1988), **Evaluation of medomidate as an anesthetic for the common snook, *Centropomus undecimalis*.** *Red Drum aquaculture, Proceedings of a Symposium on the Culture of Red Drum and Other Warm Water Fishes.* Arnold, C.R; Holt, G.J.; Thomas, P., Eds. v. 30, p. 197.

Descriptors: medetomidate, anesthetic, fish.

Waterstrat, P.R., (1999), **Induction and Recovery from Anesthesia in Channel Catfish *Ictalurus punctatus* Fingerlings Exposed to Clove Oil.** *Journal of the World Aquaculture Society.* v. 30 (2), p. 250-255. ISSN: 0893-8849.

NAL Call no: SH138.W62

Descriptors: anesthesia, induction, recovery, catfish.

Weyl, O.; Kaiser, H.; Hecht, T., (1996). **On the efficacy and mode of action of 2-phenoxyethanol as an anaesthetic for goldfish, *Carassius auratus*, at different temperatures and concentrations.** *Aquaculture Research.* v. 27 (10), p. 757-764. ISSN: 1355-557X.

NAL Call no: SH1.F8

Descriptors: gold fish, anesthetic.

Yokoyama, Y.; Yoshikawa, H.; Mitsuda, H., (1989), **Application of CO sub (2) anesthesia combined with low temperature for long-term anesthesia in carp.** *Nippon Suisan Gakkaishi Bulletin of the Japan Society for Science and Fisheries.* v. 55 (7), p. 1203-1209. ISSN: 0021-5392.

NAL Call no: 414.9 J274

Descriptors: carbon dioxide, low temperatures, carp.

Yoshikawa, H.; Ueno, S.; Mitsuda, H., (1989), **Short and long-term cold anesthesia in carp.** *Nippon Suisan Gakkaishi Bulletin of the Japan Society for Science and Fisheries.* v. 55 (3), p. 491-498. ISSN: 0021-5392.

NAL Call no: 414.9 J274

Descriptors: cold anesthesia, long term, short term, carp.

Yoshikawa, H.; Ishida, Y.; Ueno, S.; Mitsuda, H., (1988), **The use of sedating action of CO sub (2) for long-term anesthesia in carp.** *Nippon Suisan Gakkaishi Bulletin of the Japan Society for Science and Fisheries.* v. 54 (3), p. 457-462. ISSN: 0021-5392.

NAL Call no: 414.9 J274

Descriptors: anesthesia, carbon dioxide, carp.

Yoshikawa, H.; Ishida, Y.; Ueno, S.; Mitsuda, H., (1988), **Changes in depth of anesthesia of the carp anesthetized with a constant level of CO sub (2).** *Nippon Suisan Gakkaishi Bulletin for the Japan Society for Science and Fisheries.* v. 54 (3), p. 457-462. ISSN: 0021-5392.

NAL Call no: 414.9 J274

Descriptors: anesthesia, carbon dioxide, carp.

Return to: [Title Page](#) / [Table of Contents](#)

Goats

Aithal, H.P.; Pratap, Amarpal K.; Singh, G.R., (1997), **Clinical effects of epidurally administered ketamine and xylazine in goats.** *Small Ruminant Research.* 1997, v. 24 (1), p. 55-64. ISSN: 0921-4488.

NAL Call no: SF380.I52

Descriptors: goats, ketamine, xylazine, epidurally, effects.

Ali, B.H.; Cheng, Z.; Hadrami, G.; Bashir, A.K.; McKellar, Q.A., (1996), **Comparative pharmacokinetics of paracetamol (acetaminophen) and its sulphate and glucuronide metabolites in desert camels and goats.** *Journal of Veterinary Pharmacology and Therapeutics.* 1996, v. 19 (3), p. 238-244. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: acetaminophen, metabolites, goat, desert camel.

Amarpal, H.P. Aithal; Pratap, K.; Singh, G.R., (1998), **Neuroleptanalgesia with medetomidine and pentazocine in goats.** *Indian Veterinary Journal.* Feb.1998, v. 75 (2), p. 150-154. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: goats, medetomidine, pentazocine, analgesia.

Babalola, G.O.; Oke, B.O., (1983), **Intravenous regional analgesia for surgery of the limbs in goats.** *The Veterinary Quarterly. Journal of Clinical Sciences and Epidemiology.* The Hague: Martinus Nijhoff. 1983, v. 5 (4), p. 186-189. ISSN: 0165-2176. Ref.

NAL Call no: SF601.V46

Descriptors: goats, regional analgesia, limbs, surgery.

Barvalia, D.R.; Patil, D.B.; Kelawal, N.H.; Parikh, P.V.; Parsania, R.R., (1998), **Comparative study of lignocaine,**

ketamine and ketamine-lignocaine combination for epidural analgesia in goats. *Indian Veterinary Medical Journal*. Dec. 1998, v. 22 (4), p. 317-320. ISSN: 0250-5266.

NAL Call no: SF601.I45

Descriptors: lignocaine, ketamine, goats, analgesia.

Brock, K.A.; Heard, D.J., (1985), **Field anesthesia techniques in small ruminants. I. Local analgesia.** *The Compendium on Continuing Education for the Practicing Veterinarian*. Princeton Junction, N.J.: Veterinary Learning Systems. Jul. 1985, v. 7 (7), p. S417-S425. III. ISSN: 0193-1903. Ref.

NAL Call no: SF601.C66

Descriptors: sheep, goats, anesthesia, analgesics.

Carroll, G.L.; Hartsfield, S.M.; Champney, T.H.; Slater, M.R.; Newman, J.A., (1998), **Stress-related hormonal and metabolic responses to restraint, with and without butorphanol administration, in pre-conditioned goats.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Aug. 1998, v. 48 (4), p. 387-390. ISSN: 0023-6764. Ref.

NAL Call no: 410.9 P94

Descriptors: stress, hormones, response. butorphanol, goats.

Carroll, Gwendolyn L.; Hartsfield, Sandee M.; Hambleton, Regina, (1997), **Anesthetic effects of tiletamine-zolazepam, alone or in combination with butorphanol, in goats.** *Journal of the American Veterinary Medical Association*. 1997, v. 211 (5), p. 593-597. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: anesthetic effects, goats, tiletamine, zolazepam, butorphanol.

Carroll, Gwendolyn L.; Hooper, R. Neil; Boothe, Dawn M.; Hartsfield, Sandee M.; Randoll, Lynne A., (1999), **Pharmacokinetics of fentanyl after intravenous and transdermal administration in goats.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Aug. 1999, v. 60 (8), p. 986-991. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: fentanyl, goats, intravenous, transdermal, pharmacokinetics.

Chitale, Dipalee; Pratap, K.; Amarpal; Gupta, O.P.; Aithal, H.P.; Singh, G.R., (1999), **Observations on some clinical aspects of alpha-2 agonists with diazepam as preanaesthetic to ketamine anaesthesia in goats: An experimental study.** *Indian Veterinary Journal*. Feb. 1999, v. 76 (2), p. 112-114.

NAL Call no: 41.8 IN2

Descriptors: goats, diazepam, ketamine, alpha 2 agonists.

Clark, T.P.; Purhoit, R.C.; Wilson, R. C., (1993), **Evaluation of sedative and analgesic properties of detomidine in goats.** *Agri Practice*. Santa Barbara, CA: Veterinary Practice Publishing Company. Apr. 1993, v. 14 (4), p.29-33. ISSN: 0745-452X.

NAL Call no: SF601.B6

Descriptors: goats, analgesics, adverse effects.

Clark, Terrence P.; Purohit, Ram C.; Wilson, Robert C., (1995), **Evaluation of tiletamine-zolazepam anesthesia in goats.** *Agri Practice*. 1995, v. 16 (6), p. 24-27. ISSN: 0745-452X.

NAL Call no: SF601.B6

Descriptors: anesthesia, goats, tiletamine, zolazepam.

Ewing, K.K., (1990), **Anesthesia techniques in sheep and goats.** *The Veterinary Clinics of North America: Food animal Practice*. Philadelphia, PA.: W.B.Saunders Company. Nov. 1990, v. 6 (3), p. 759-778. ISSN: 0749-0720. Ref.

NAL Call no: SF601.V535

Descriptors: sheep, goats, anesthesia, analgesics.

Gray, P.R.; McDonnell, W.N., (1986), **Anesthesia in goats and sheep. I. Local analgesia.** *The Compendium on Continuing Education for the Practicing Veterinarian*. Princeton Junction, N.J.: Veterinary Learning Systems. Jan. 1986,

v. 8 (1), p. S33-S39. III. ISSN: 0193-1903. Ref.

NAL Call no: SF601.C66

Descriptors: goats, sheep, anesthesia, analgesics.

Hendrickson, D.A.; Kruse, Elliott K.T.; Broadstone, R.V., (1996), **A comparison of epidural saline, morphine, and bupivacaine for pain relief after abdominal surgery in goats.** *Veterinary Surgery*. Philadelphia, PA: W.B.Saunders Company. Jan. 1996, v. 25 (1), p. 83-87. ISSN: 0161-3499. Ref.

NAL Call no: SF911.V43

Descriptors: epidural, morphine, pain, goats, abdominal surgery.

Kinjavdekar, P.; Singh, G.R.; Amarpal; Pawde, A.M.; Aithal, H.P., (1999), **Effects of subarachnoid xylazine and medetomidine on haemodynamics and ECG in goats.** *Journal of Veterinary Medicine Series A*. Jul. 1999, v. 46 (5), p. 271-275. ISSN: 0931-184X.

NAL Call no: 41.8 Z5

Descriptors: goats, xylazine, medetomidine, effects.

Kock, M.; Thompson, E.; Vulliet, P.R.; Brooks, D.L., (1994), **Pharmacokinetic properties of methadone hydrochloride after single intramuscular administration in adult dairy goats.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Oct. 1994, v. 44 (5), p. 503-507. ISSN: 0023-6764. Ref.

NAL Call no: 410.9 P94

Descriptors: goats, methadone, dosage, pharmacokinetics.

Kumar, D. Dilip; Sharma, A.K.; Gupta, O.P.; Amarpal, (1995), **Comparison of detomidine and xylazine induced sedation and analgesia in goats.** *Indian Journal of Veterinary Surgery*. 1995, v. 16 (2), p. 118-119. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: goats, detomidine, xylazine, analgesia, comparison.

Mohammad, F.K.; Zangana, I.K.; Al-Kassim, N.A., (1991), **Clinical observations in Shami goat kids sedated with medetomidine.** *Small Ruminant Research*. New York: Elsevier. Jul. 1991, v. 5 (1-2), p. 149-153. ISSN: 0921-4488. Ref.

NAL Call no: SF380.I52

Descriptors: kids, anesthetics, analgesics, physiological functions.

Mpanduji, D.G.; Mgasas, M.N.; Bittegeko, S.B.P.; Batamuzi, E.K., (1999), **Comparison of xylazine and lidocaine effects for analgesia and cardiopulmonary functions following lumbosacral epidural injection in goats.** *Journal of Veterinary Medicine Series A*. Dec. 1999, v. 46 (10), p. 605-611. ISSN: 0931-184X.

NAL Call no: 41.8 Z5

Descriptors: goats, xylazine, lidocaine, analgesia, effects.

Pawde, A.M.; Amarpal; Singh, G.R.; Kumar, Naveen, (1996), **Clinicophysiological effects of medetomidine in female goats.** *Small Ruminant Research*. 1996, v. 20 (1), p.95-98. ISSN: 0921-4488.

NAL Call no: SF380.I52

Descriptors: female goats, medetomidine, clinicophysiological effects.

Sakamoto, Hiroshi; Misumi, Kazuhiro; Nakama, Mitomu; Aoki, Yukihiro, (1996), **The effects of xylazine on interuterine pressure, uterine blood flow, maternal and fetal cardiovascular and pulmonary function in pregnant goats.** *Journal of Veterinary Medical Science*. 1996, v. 58 (3), p. 211-217. ISSN: 0916-7250.

NAL Call no: SF604.J342

Descriptors: goats, xylazine, effects, pregnant goats.

Taylor, P.M., (1991), **Anaesthesia in sheep and goats.** *In Practice*. London: British Veterinary Association. Jan. 1991, v. 13 (10), p. 31-36. ISSN: 0263-841X. Ref.

NAL Call no: SF601.I4

Descriptors: anesthesia, sheep, goats, analgesics, complications.

Trim, C.M., (1989), **Epidural analgesia with 0.75% bupivacaine for laparotomy in goats.** *Journal of the American Veterinary Medical Association*. Schaumburg, IL. May 1, 1989, v. 194 (9), p. 1292-1296. ISSN: 0003-1488. Ref.

NAL Call no: 41.8 AM3

Descriptors: goats, analgesics, lidocaine, laparotomy, duration, adverse effects.

Return to: [Title Page](#) / [Table of Contents](#)

Guinea Pigs

Aasmundstad, Tor A.; Lillekjendlie, Bjorn; Morland, Jorg., (1996), **Ethanol interference with morphine metabolism in isolated guinea pig hepatocytes.** *Pharmacology and Toxicology*. v.79 (3), p. 114-119. ISSN: 0901-9928.

Descriptors: ethanol, morphine metabolism, guinea pig.

Buchanan, K.C.; Burge, R.R.; Ruble, G.R., (1998), **Evaluation of injectable anesthetics for major surgical procedures in guinea pigs.** *Contemporary Topics in Laboratory Animal Science*. Cordova, TN: The Association. 37 (4), p. 58-63. ISSN: 1060-0558.

NAL Call no: SF405.5.A23

Descriptors: surgical procedures, injectable anesthetics, analgesics.

Campbell, E.A.; Gentry, C.T.; Patel, S.; Panesar, M.S.; Walpole, C.S.J.; Urban, L., (1998), **Selective neurokinin-1 receptor antagonists are anti-hyperalgesic in a model of neuropathic pain in the guinea pig.** *Neuroscience*. Dec. 1998, v. 87 (3), p. 527-532. ISSN: 0306-4522.

NAL Call no: QP351.N48

Descriptors: nervous system, disease.

Eisele, P. H.; Kaaekuahiwi, M.A.; Canfield, D.R.; Golub, M.S.; Eisele, J.H. Jr., (1994), **Epidural catheter placement for testing of obstetrical analgesics in female guinea pigs.** *Laboratory Animal Science*. Cordova, TN; American Association for Laboratory Animal Science. v. 44 (5), p. 486-490. ISSN: 0023-6764.

NAL Call no: 410.9.P94

Descriptors: catheters, analgesics, female guinea pigs.

Gelb, Adrian W.; Zhang, Chao; Hamilton, John T., (1996), **Propofol induces dilation and inhibits constriction in guinea pig basilar arteries.** *Anesthesia and Analgesia*. v. 83 (3), p. 472-476. ISSN: 0003-2999.

Descriptors: propofol, basilar arteries, guinea pigs.

Golub, Mari S.; Kaaekuahiwi, Margaret A., (1995), **Response to maternal separation in infant guinea pigs exposed to intrapartum meperidine.** *Developmental Psychology*. v. 28 (1), p. 59-68. ISSN: 0012-1630.

Descriptors: infant guinea pigs, meperidine, intrapartum.

Hashiba, Eiji; Sato, Tetsumi; Hirota, Kazuyoshi; Hashimoto, Yoshio; Matsuki, Akitomo, (1999), **The relaxant effect of propofol on guinea pig tracheal muscle is independent of airway epithelial function and beta-adrenoceptor activity.** *Anesthesia and Analgesia*. Jul. 1999, v. 89 (1), P. 191-196. ISSN: 0003-2999.

Descriptors: beta adrenoceptors, propofol, general anesthesia.

Jin, Wenzhen; Terman, Gregory W.; Chavkin, Charles, (1997), **Kappa opioid receptor tolerance in the guinea pig hippocampus.** *Journal of Pharmacology and Experimental Therapeutics*. v. 281 (1), p. 123-128. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: opioid receptors, tolerance, guinea pig.

Murphy, Laine J.; Olsen, George D., (1994), **Diffusion of morphine-6-beta-D-Glucuronide into the Neonatal Guinea**

Pig Brain during Drug-Induced Respiratory Depression. *Journal of Pharmacology and Experimental Therapeutics.* v. 271 (1), p. 118-124. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: neonatal guinea pigs, morphine, respiratory depression.

Nishiwaki, Hideyuki; Saitoh, Noriko; Nishio, Hideaki; Takeuchi, Tadayoshi; Hata, Fumiaki, (1998), **Relationship between muscarinic autoinhibition and the inhibitory effect of morphine on acetylcholine release from myenteric plexus of guinea pig ileum.** *Japanese Journal of Pharmacology.* v. 77 (4), p. 271-278. ISSN: 0021-5198.

Descriptors: morphine, effect, ileum myenteric plexus.

Radde, G.R.; Hinson, A.; Crenshaw, D.; Toth, L.A., (1996), **Evaluation of anaesthetic regimens in guinea pigs.** *Laboratory Animals.* Royal society of Medicine Press Ltd. v. 30 (3), p. 220-227. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: anaesthetic regimens, guinea pigs.

Rhodes, Keith F.; Buckingham, Julia C.; Kennard, Christopher, (1999), **The inhibition of nicotine-evoked relaxation of the guinea pig basilar artery by some analgesic drugs and progesterone.** *British Journal of Pharmacology.* Feb. 1999, v. 126 (4), p. 1003-1008. ISSN: 0007-1188.

NAL Call no: 396.8 B77

Descriptors: basilar artery, nicotine evoked relaxation.

Sato, Tetsumi; Hirota, Kazuyoshi; Matsuki, Akimoto; Zsigmond, Elmer K.; Rabito, Sara F., (1997), **The relaxant effect of ketamine on guinea pig airway smooth muscle is epithelium-independent.** *Anesthesia and Analgesia.* v. 84 (3), p. 641-647. ISSN: 0003-2999.

Descriptors: ketamine, effect, smooth muscle.

Wilde, Dixon W., (1996), **Isoflurane reduces K⁺ current in single smooth muscle cells of guinea pig portal vein.** *Anesthesia and Analgesia.* v. 83 (6), p. 1307-1313. ISSN: 0003-2999.

Descriptors: isoflurane effect smooth muscle.

Return to: [Title Page](#) / [Table of Contents](#)

Mice

Ali, B.H.; Sharif, S.I.; Elkadi, A., (1995), **Sex differences and the effect of gonadectomy on morphine-induced antinociception and dependence in rats and mice.** *Clinical and Experimental Pharmacology and Physiology.* v. 22 (5), p. 342-344. ISSN: 0305-1870.

NAL Call no: QP1.C55

Descriptors: sex differences, gonadectomy, morphine, mice.

Almeida, R.N.; Hiruma, C.A.; Barbosa, Filho J.M., (1996), **Analgesic effect of rotundifolone in rodents.** *Fitoterapia.* v. 67 (4), p. 334-338. ISSN: 0367-326X.

NAL Call no: 450 F55

Descriptors: analgesic, rotundifolone, rodents.

Anwar, Mamdouh M.; Abdel, Rahman Mahran S., (1998), **Effect of propofol on perception of pain in mice: Mechanism of action.** *Comparative Biochemistry and Physiology.* Elmsford, NY: Pergamon Press. v. 120 (2), p. 249-253. ISSN: 0300-9629.

NAL Call no: QP1C6

Descriptors: propofol, pain, mice, action.

Banerjee, Dhriti; Sarkar, Nimral Kumar, (1997), **Haematological changes in buprenorphine-treated mice.** *Folia Biologica Cracow.* v. 45 (3-4), p. 157-162. ISSN: 0015-5497.

NAL Call no: 442.8 F71

Descriptors: buprenorphine, haematology, mice.

Betancur, Catalina; Dell'omo, Giacomo; Alleva, Enrico, (1994), **Magnetic field effects on stress-induced analgesia in mice: Modulation by light.** *Neuroscience Letters.* 1994, v. 182 (2), p. 147-150. ISSN: 0304-3940.

NAL Call no: QP351.N3

Descriptors: magnetic field effect, mice, stress induced analgesia.

Bittencourt, Silvia C.; De-Lima, Thereza C.M.; Morato, Gina S., (1995), **Antinociceptive effects of clebopride in the mouse.** *General Pharmacology.* v. 26 (5), p. 1083-1087. ISSN: 0306-3623.

NAL Call no: RM1.C63

Descriptors: clebopride, mouse, Antinociceptive effects.

Brignola, Giovanni; Calignano, Antonio; Di Rosa, Massimo, (1994), **Modulation of morphine antinociception in the mouse by endogenous nitric oxide.** *British Journal of Pharmacology.* v. 113 (4), p. 1372-1376. ISSN: 0007-1188.

NAL Call no: 396.8 B77

Descriptors: morphine modulation, nitric oxide, mouse.

Burstein, Sumner H.; Friderichs, E.; Koegel, B.; Schneider, J.; Selve, N., (1998), **Analgesic effects of 1', 1' dimethylheptyl-DELTAB-THC-11-oic acid (CT3) in mice.** *Life Sciences.* v. 63 (3), p. 161-168. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: analgesia, mice.

Butner, L.; Huang, Y.; Tse, E.; Hall, I.H., (1996), **Anti-inflammatory and analgesic activities of 3-imino-1-oxoisindolines in CF-1 mice.** *Biomedicine and Pharmacotherapy.* v. 50 (6-7), p. 290-296. ISSN: 0753-3322.

NAL Call no: R41.B52

Descriptors: anti-inflammatory, analgesic activity, mice.

Cao, Bo Jin; Li Wei, Ping, (1994), **Buspirone and 1-(2-pyridimidinyl)-piperazine attenuate xylazine-induced antinociception in the mouse.** *Journal of Pharmacy and Pharmacology.* v. 46 (11), p. 931-932. ISSN: 0022-3573.

NAL Call no: RS11.J6

Descriptors: mouse, xylazine, antinociception.

Capasso, Anna, (1999), **Effect of somatostatin and its antagonist on morphine analgesia in mice.** *Acta Pharmacologica Sinica.* Dec. 1999, v. 20 (12), p. 1079-1082. ISSN: 0253-9756.

Descriptors: morphine, analgesic, somatostatin-antagonist.

Chang, Albert; Emmel, David W.; Rossi, Grace C.; Pasternak, Gavril W., (1998), **Methadone analgesia in morphine-insensitive CXBK mice.** *European Journal of Pharmacology.* v. 351 (2), p. 189-191. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: methadone, analgesia, morphine, cxbk mice.

D'Amato, Francesca R.; Mazzacane, Elio; Capone, Francesca; Pavone, Flaminia, (1999). **Effects of postnatal manipulation on nociception and morphine sensitivity in adult mice.** *Developmental Brain Research.* Oct. 20, 1999, v. 117 (1), p. 15-20. ISSN: 0165-3806.

Descriptors: morphine, analgesic effects, mice.

D'Amato, F.R., (1998), **Kin interaction enhances morphine analgesia in male mice.** *Behavioral Pharmacology.* v. 9 (4), p. 369-373.

Descriptors: kin interaction, morphine analgesia, male mice.

Dimova, S.; Stoytchev, Ts, (1993), **Analgesic effect of acetaminophen after single and 14 day treatment in male albino mice.** *Comptes Rendus de l'Academie Bulgare des Sciences.* 1993, v. 46 (11), p. 121-124. ISSN: 0366-8681.

NAL Call no: 512 SO2

Descriptors: albino mice, acetaminophen, effect.

Dimova, S.; Stoychev, Ts., (1995), **Effect of cimetidine on acetaminophen analgesia in mice.** *Dokladi na B'lgarskata Akademiya na Naukite.* v. 48 (7), p. 115-117. ISSN: 0366-8681.

NAL Call no: 512 SO2

Descriptors: cimetidine, acetaminophen, analgesia, mice.

Duttaroy, Alokesh; Kirtman, Randi; Farrell, Frank; Phillips, Mark; Phillipe, Jacques; Monderson, Thesselon; Yoburn, Bryon C., (1997), **The effect of cumulative dosing on the analgesic potency of morphine in mice.** *Pharmacology, Biochemistry and Behavior.* v. 58 (1), p. 67-71. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: morphine, mice, cumulative dosing.

Duttaroy, Alokesh; Gregorio, Glen; Shah, Sukrut; Shen, Ji; Philippe, Jacques; Monderson, Thesselon; Yoburn, Byron C., (1998), **Acute ethanol exposure decreases the analgesic potency of morphine in mice.** *Life Sciences.* v. 62 (2), p. 35-41. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: ethanol, analgesic potency, mice.

Elmer, Gregory I.; Evans, Jennifer L.; Ladenheim, Bruce; Epstein, Charles; Cadet, Jean Lud, (1995), **Tansgenic superoxide dismutase mice differ in opioid-induced analgesia.** *European Journal of Pharmacology.* v. 283 (1-3), p. 227-232. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: transgenic mice, opioid analgesia, differences.

Fu, E.S.; Scharf, J.E., (1995), **The effect of pre-emptive fentanyl on formalin pain in mice.** *Regional Anesthesia.* v. 20 (4), p. 291-295. ISSN: 0146-521X.

Descriptors: fentanyl, pain, mice.

Garfield, J.M.; Bukusoglu, C., (1996), **Propofol and ethanol produce additive hypnotic and anesthetic effects in the mouse.** *Anesthesia and Analgesia.* v. 83 (1), p. 156-161.

Descriptors: propofol, ethanol, anesthetic, mouse.

Garner, H.R.; Burke, Timothy F.; Lawhorn, C. David; Stoner, Joanne M.; Wessinger, William D., (1997), **Butorphanol-mediated antinociception in mice: Partial agonist effects and mu receptor involvement.** *Journal of Pharmacology and Experimental Therapeutics.* v. 282 (3), p. 1253-1261. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: butorphanol, mice, effects, mu receptors.

Goicoechea, Carlos; Ormazabal, M. Jesus; Abalo, Raquel; Alfaro, M. Jose; Martin, M., (1999), **Calcitonin reverts pertussis toxin blockade of the opioid analgesia in mice.** *Neuroscience Letters.* v. 273 (3), p. 175-178. ISSN: 0304-3940.

NAL Call no: QP351.N3

Descriptors: calcitonin, pertussis toxin blockade, opioid analgesia, mice.

Grant, Gilbert J.; Cascio, Martin; Zakowski, Mark I.; Langerman, Lev; Turndorf, Herman, (1995), **Intrathecal administration of liposomal morphine in a mouse model.** *Anesthesia and Analgesia.* v. 81 (3), p. 514-518. ISSN: 0003-2999.

Descriptors: intrathecal, morphine, mouse.

Inoue, Makoto; Nakayamada, Hiroyuki; Tokuyama, Shogo; Ueda, Hiroshi, (1997), **Peripheral non-opioid analgesic effects of kyotorphin in mice.** *Neuroscience Letters.* v. 236 (1), p. 60-62. ISSN: 0304-3940.

NAL Call no: QP351.N3

Descriptors: non-opioid effects, kyotorphin, mice.

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NAL Call no: RS11.J6
Descriptors: thiazolotriazine, synthesis, antinociceptive effects, mice.
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NAL Call no: 442.8 IN2
Descriptor: sumatriptan, antinociceptive effect, mice.
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Descriptors: sch 32615, analgesia, mice.
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Descriptors: doxapram, acetaminophen toxicity, mice.
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NAL Call no: QP901.E8
Descriptors: diabetic mice, dihydroetorphine, antinociceptive.
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Descriptors: matrine, mice, antinociceptive effects.
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NAL Call no: Film S-1779
Descriptors: stress, opioid, analgesia, deer mice.
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NAL Call no: QP351.N3
Descriptors: morphine dependence, mice, selective breeding.
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NAL Call no: QP901.E8
Descriptors: heroin, morphine, mu receptors, knockout mice.
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NAL Call no: 396.8 J82
Descriptors: topical opioids, reversal, antagonist, mice.

Kolesnikov, Yuri A.; Pasternak, Gavril W., (1999), **Peripheral orphanin FQ/Nociception analgesia in the mouse.** *Life Sciences*. v. 64 (22), p. 2021-2028. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: peripheral orphanin, analgesia, mouse.

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NAL Call no: RM1.C63

Descriptors: circadian rhythm, mice, pain.

Kuribara, Hisashi, (1996), **Effects of interdose interval on ambulatory sensitization to methamphetamine, cocaine and morphine in mice.** *European Journal of Pharmacology*. v. 316 (1), p. 1-5. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: effects, methamphetamine, cocaine, morphine, mice.

Li, Jin; Li, Xin; Pei, Gang; Qin, Bo Yi, (1999), **Analgesic effect of agmatine and its enhancement on morphine analgesia in mice.** *Acta Pharmacologica Sinica*. v. 20 (1), p. 81-85. ISSN: 0253-9756.

Descriptors: agmatine, morphine, enhancement, mice.

Loh, Horace H.; Liu, Hsien Ching; Cavalli, Antonella; Yang, Wanling; Chen Yuh Fung; Wei, Li Na, (1998), **Mu opioid receptor knockout in mice: Effects on ligand-induced analgesia and morphine lethality.** *Molecular Brain Research*. v. 54 (2), p. 321-326. ISSN: 0169-328X.

Descriptors: mu opioid receptors, mice, analgesia.

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NAL Call no: QL55.A1L3

Descriptors: mice, analgesics, pain, behavior, experiments.

Lutfy, Kabirullah; Sadowski, Bogdan; Kwon, Ik Sung; Weber, Eckard, (1994), **Morphine analgesia and tolerance in mice selectively bred for divergent swim stress-induced analgesia.** *European Journal of Pharmacology*. v. 265 (3), p. 171-174. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: morphine, analgesia, tolerance, mice.

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NAL Call no: QP552.N39N48

Descriptors: analgesia, morphine, pain perception.

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NAL Call no: RB127.P34

Descriptors: mice, analgesics, selective breeding.

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NAL Call no: 410 P56

Descriptors: induced analgesia, wild mice, laboratory mice.

Martin, B.R., (1985), **Characterization of the antinociceptive activity of intravenously administered delta-9-tetrahydrocannabinol in mice.** *Proceedings of the Oxford Symposium on Cannabis: 9th International Congress of*

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NAL Call no: RM666.C266S3 1984

Descriptors: analgesics, tetrahydrocannabinol.

Messier, Claude; Emond, Sylvie; Ethier, Katia, (1999), **New techniques in stereotaxic surgery and anesthesia in the mouse.** *Pharmacology Biochemistry and Behavior.* v. 63 (2), p. 313-318. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: new techniques, surgery, anesthesia, mouse.

Miller, D.B., (1988), **Restraint-Induced Analgesia in the CD-1 Mouse: Interactions with Morphine and time of Day.** Journal article Nov. 88. *Brain Research.* v. 473 (2), p. 327-335. NTIS 1990 (#22-24)-1995 (#1-12). ISSN: 0006-8993.

NAL Call no: Film S-1779

Descriptors: mice, stress, morphine, analgesia, diurnal variations.

Nagata, Takahisa; Masaoka, Toshio; Akahori, Fumiaki, (1991), **Analgesia induced by various stress in mice: Participation of intrinsic opioid.** *Bulletin of Azabu University Veterinary Medicine.* v.12 (1-2), p. 29-38. ISSN: 0389-1836.

NAL Call no: SF600.A92

Descriptors: stress, analgesia, mice, opioid.

Onal, Aytul; Tuglular, Isik, (1999), **The relationship between pupil diameter and pain by the administration of morphine and antidepressant drugs in mice.** *General Pharmacology.* v. 33 (1), p. 83-89. ISSN: 0306-3623.

NAL Call no: RM1.C63

Descriptors: pupil diameter, pain, drugs, mice.

Onat, F.; Toker, F.; Aslan, N.; Oktay, S.; Berkman, Kemal, (1995), **Antinociceptive effect of D-aspartic acid in mice.** *Pharmacology, Biochemistry and Behavior.* v. 51 (4), p. 715-719. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: D-aspartic acid, mice, antinociceptive effect.

Penn, Nathar W., (1995), **Potentialiation of morphine analgesic action in mice by beta-carotene.** *European Journal of Pharmacology.* v. 284 (1-2), p. 191-193. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: morphine analgesia, beta-carotene, mice.

Pinto, Luisa; Borrelli, Francesca; Bombardelli, Ezio; Cristoni, Aldo; Capasso, Francesco, (1998), **Anti-inflammatory, analgesic and antipyretic effects of glaucine in rats and mice.** *Pharmacy and Pharmacology Communications.* v. 4 (10), p. 502-505. ISSN: 1460-8081.

Descriptors: glaucine, rats, mice, effects.

Reddy, M. Srinivas; Shewade, D.G.; Ramaswamy, S., (1995), **Circadian rhythm and analgesic activity in mice.** *Indian Journal of Pharmacology.* v. 27 (2), p. 136-137. ISSN: 0253-7613.

Language: Japanese.

Descriptors: analgesics, mice, circadian rythm.

Rigon, Adriana Regina; Takahashi, Reinaldo Naoto, (1996), **The effects of systemic procaine, lidocaine and dimethocaine on nociception in mice.** *General Pharmacology.* v. 27 (4), p. 647-650. ISSN: 0306-3623.

NAL Call no: RM1.C63

Descriptors: procaine, lidocaine, dimethocaine, nociception, mice.

Roerig, Sandra C., (1995), **Decreased spinal morphine/clonidine antinociceptive synergism in morphine tolerant mice.** *Life Sciences.* 1995, v. 56 (5), p. 115-122. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: morphine tolerant mice, antinociceptive synergism.

Roy, S.D.; Hou, S.Y.E.; Witham, S.L.; Flynn, G.L., (1994), **Transdermal delivery of narcotic analgesics: Comparative metabolism and permeability of human cadaver and hairless mouse skin.** *Journal of Pharmaceutical Sciences.* v. 83 (12), p. 1723-1728. ISSN: 0022-3549.

NAL Call no: 396.8 J825

Descriptors: transdermal delivery, analgesics, mouse skin, cadaver.

Sadowski, Bogdan; Konarzewski, Marek, (1999), **Analgesia in selectively bred mice exposed to cold in helium/oxygen atmosphere.** *Physiology and Behavior.* v. 66 (1), p. 141-151. ISSN: 0031-9384.

NAL Call no: QP1.P4

Descriptors: analgesia, cold, oxygen/helium, mice.

Sakurada, S.; Sato, T.; Takahashi, N.; Kawamura, S.; Tanno, K.; Sakurada, T.; Kisara, K., (1995), **The role of mu receptor subtypes on morphine-induced antinociception in mice.** *Neurosciences.* v. 21 (SUPPL) p. 91-94. ISSN: 0388-7448.

Language: Japanese.

Descriptors: morphine, mu receptors, mice.

Salmon, Anne Marie; Damaj, Imad; Sekine, Susumu; Picciotto, Marina R.; Marubio, Lisa; Chsngoux, Jean Pierre, (1999), **Modulation of morphine analgesia in alphaCGRP mutant mice.** *Neuroreport.* v. 10 (4), p. 849-854. ISSN: 0959-4965.

Descriptors: modulation, morphine, mice, analgesia.

Schreiber, Shaul; Backer, Maria M.; Pick, Chaim G., (1999), **The antinociceptive effect of venlafaxine in mice is mediated through opioid and adrenergic mechanisms.** *Neuroscience Letters.* v. 273 (2), p. 85-88. ISSN: 0304-3940.

NAL Call no: QP351.N3

Descriptors: venlafaxine, mice, opioid, adrenergic, mechanisms.

Semenova, S.; Kuzmin, A.; Zvartau, E., (1995), **Strain differences in the Analgesic and Reinforcing Action of Morphine in Mice.** *Pharmacology Biochemistry and Behavior.* 1995, v. 50 (1), p. 17-21. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: morphine, mice, behavior.

Smith, Forest L.; Dombrowski, Daniel S.; Dewey, William L., (1999), **Involvement of intracellular calcium in morphine tolerance in mice.** *Pharmacology, Biochemistry and Behavior.* v. 62 (2), p. 381-388. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: intracellular calcium, morphine tolerance, mice.

Suh, H.W.; Song, D.K.; Son, K.H.; Woo, M.H.; Do, J.C.; Choi, Y.S.; Lee, K.H.; Kim, Y.H., (1996), **Antinociceptive effect of smilaxin B administered intracerebroventricularly in the mouse.** *Planta medica.* Apr. 1996, v. 62 (2), p. 141-145. Ref. ISSN: 0032-0943.

NAL Call no: 450.P697

Descriptors: analgesics, smilax, medicinal plants, mice.

Tantcheva, L.; Stoytchev, T.; Rangelova, D., (1997), **Influence of hydrocortisone on the analgesic effect, toxicity and metabolism of aspirin in mice.** *General Pharmacology.* v. 28 (1), p. 123-128. ISSN: 0306-3623.

NAL Call no: RM1.C63

Descriptors: hydrocortisone, effects, aspirin, mice.

Tayfun, Uzbay; Cinar, Mehtap G.; Aytimir, Mutlu; Tuglular, Isik, (1999), **Analgesic effect of tianeptine in mice.** *Life Sciences.* v. 64 (15), p. 1313-1319. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: tianeptine, analgesic effect, mice.

Ueda, Hiroshi; Inoue, Makoto, (1999), **Peripheral morphine analgesia resistant to tolerance in chronic morphine-treated mice.** *Neuroscience Letters*. v. 266 (2), p. 105-108. ISSN: 0304-3940.

NAL Call no: QP351.N3

Descriptors: morphine, analgesia resistant, mice.

Vaz, Z.R.; Mata, L.V.; Calixto, J.B., (1997), **Analgesic effect of the herbal medicine Catuama in thermal and chemical models of nociception in mice.** *Phytotherapy Research*. Mar. 1997, v. 11 (2), p. 101-106. Ref. ISSN: 0951-418X.

NAL Call no: RS164.P59

Descriptors: mice, nociception, herbal medicines.

Walter, T.L.; Chau, T.T., (1995), **Antinociceptive activities of non-steroidal antiinflammatory drugs (NSAIDS) following intracerebroventricular (i.c.v.) And intrathecal (i.t.) Administration in mice.** *Inflammation Research*. v. 44 (Suppl.2) p. 133-134. ISSN: 1023-3830.

NAL Call no: RS122.A3

Descriptors: antinociceptive activities, NSAIDS, mice.

Wiersema, A.M.; Dirksen, R.; Oyen, W.J.G.; Vliet, J.A. van der, (1997), **A method for long duration anaesthesia for new hindlimb ischaemia-reperfusion model in mice.** *Laboratory Animals*. Royal Society of Medicine Press Ltd. Apr. 18, 1997, v. 31 (2), p. 151-156. Ref. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: ischemia, anesthesia, analgesics, mice.

Yildiran, G.; Ulak, G.; Utkan, T.; Goldeli, E.; Gacar, N.; Erden, F., (1997), **Antinociception induced by verapamil and chloramphenicol in mice.** *Biology of the Neonate*. v. 72 (1), p. 28-31. ISSN: 0006-3126.

NAL Call no: QH301.B46

Descriptors: antinociception, verapamil, chloramphenicol, mice.

Return to: [Title Page](#) / [Table of Contents](#)

Marine Mammals

Barnett, J.E.; Jepson, P.D.; Patterson, I.A., (1999), **Drug-induced euthanasia of stranded cetaceans.** *Veterinary Record*. Journal of the British Veterinary Association. London. Sept. 4, 1999, v. 145 (10), p. 292. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: drug-induced euthanasia, cetaceans, administration, dosage.

Bester, M.N., (1988), **Chemical restraint of Antarctic fur seals and southern elephant seals.** *South African Journal of Wildlife Research*. 1998, v. 18 (2), p. 57-60. ISSN: 0379-4369.

NAL Call no: SK575.S6S6

Descriptors: chemical restraint, fur seals elephant seals.

Gage, L.J., (1993), **Pinniped anesthesia.** *Zoo and Wild Animal Medicine*. Fowler, M.E. 3rd ed. W.B. Saunders Company, Philadelphia, PA. 1993: i-xxv. 1-616. Chapter pagination: 412-413. Ill.

Descriptors: pinniped, anesthesia.

Gales, N.J., (1989), **Chemical restraint and anesthesia of pinnipeds: A review.** *Marine Mammal Science*. v. 5 (3), p. 228-256. ISSN: 0824-0469.

NAL Call no: QL713.2.M372

Descriptors: anaesthesia, narcotics, drugs, Pinnipedia, literature reviews.

Griffiths, D.; Wiig, Oe; Gjertz, I., (1993), **Immobilization of walrus with etorphine hydrochloride and Zoletil.** *Marine Mammal Science*. 1993, v. 9 (3), p. 250-257. ISSN: 0824-0469.

NAL Call no: QL713.2.M372

Descriptors: immobilization, walrus, etorphine, zoletil.

Heath, R.B.; DeLong, R.; Jameson, V.; Bradley, D.; Spraker, T., (1997), **Isoflurane anesthesia in free ranging sea lion pups.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Apr. 1997, v. 33 (2), p. 206-210. ISSN: 0900-3558.

NAL Call no: 41.9 W64B

Descriptors: isoflurane, sea lion pups, anesthesia.

Joseph, B.E.; Cornell, L.H., (1988), **The use of meperidine hydrochloride for chemical restraint in certain cetaceans and pinnipeds.** *Journal of Wildlife Diseases*. v. 24 (4), p. 691-694. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: meperidine hydrochloride, restraint, cetaceans, pinnipeds.

Loughlin, T.R.; Spraker, T., (1989), **Use of Telazol (tiletamine and zolazepamO to immobilize female northern sea lions (*Eumetopias jubatus*) in Alaska.** *Journal of wildlife Diseases*. 1989, v. 25 (3), p. 353-358. Ref. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: analgesics, adverse effects, wild animals, northern sea lion.

Lynch, M.J.; Tahmindjis, M.A.; Gardner, H., (1999), **Immobilisation of pinniped species.** *Australian Veterinary Journal*. Brunswick, Victoria: Australian Veterinary Association. Mar. 1999, v. 77 (3), p. 181-185. ISSN: 0005-0423.

NAL Call no: 41.8 AU72

Descriptors: pinniped, immobilization, seals, anesthetic agents.

Mitchell, P.J.; Burton, H.R., (1991), **Immobilisation of southern elephant seals and leopard seals with cyclohexamine anaesthetics and xylazine.** *Veterinary Record*. Journal of the British Veterinary Association. London. Oct. 12, 1991, v. 129 (15), p. 332-336. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: immobilization, elephant seal, leopard seal, cyclohexamine, xylazine.

Ridgway, S.H.; Green, R.F.; Sweeney, J.C., (1975), **Mandibular anesthesia and tooth extraction in the bottlenose dolphin.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. 1975. v. 11 (3),p. 415-418. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: mandibular anesthesia, bottlenose dolphin.

Sepulveda, M.S.; Ochoa, Acuna H.; McLaughlin, G.S., (1994), **Immobilization of Juan Fernandez fur seals, *Arctocephalus philippii*, with ketamine hydrochloride and diazepam.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Oct. 1994, v. 30 (4), p. 536-540. ISSN: 0900-3558.

NAL Call no: 49.1 W64B

Descriptors: immobilization, fur seals, ketamine, diazepam.

Walsh, Michael T.; Bossart, Gregory D., (1999), **Manatee medicine.** Fowler, Murray E. and Miller, R. Eric. *Zoo and Wild Animal Medicine: Current Therapy*. 4th edition. W.B. Saunders Company, Philadelphia, PA., 1999: i-xxiii, 1-747. Chapter pagination: 507-516. Ill.

White, J.R.; Francis-Floyd, R., (1990), **Manatee Biology and Medicine.** *CRC Handbook of marine mammal medicine: Health, disease, and rehabilitation*. CRC Press, Boca Raton, Ann Arbor & Boston. 1990. I-xx. 1-735. Chapter pagination: 601-623. Ill.

NAL Call no: SF997.5.M35C7

Williams, T.D.; Williams, A.L.; Siniff, D.b., (1981), **Fentanyl and azaperone produced neuroleptanalgesia in the sea otter (*Enhydra lutris*)**. *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. 1981, v. 17 (3), p. 337-342. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: sea otter, fentanyl, azaperone, analgesia, immobilization.

Return to: [Title Page](#) / [Table of Contents](#)

Non Domestic/Wild/Exotic

Bahri, L.E.; Souilem, O.; Djegham, M.; Belguith, J., (1999), **Toxicity and adverse reactions to some drugs in dromedary (*Camelus dromedarius*)**. *Veterinary and Human Toxicology*. v. 41 (1), p. 35-38. ISSN: 0145-6296.

NAL Call no: SF601.A47

Descriptors: camel, drugs, toxicity, adverse reactions.

Beck, C.C., (1972), **Chemical restraint of exotic species**. *Journal of Zoo Animal Medicine*. 1972, v. 3, p. 3-66; 106 ref. ISSN: 0093-4526.

NAL Call no: SF601.J6

Descriptors: chemical restraint, exotic species.

Caulkett, N.; Cattet, M.R.L., (2002), **Anesthesia of Bears**. *Zoological Restraint and Anesthesia*, edited by D. Heard. http://www.ivis.org/special_books/Heard/caulkett/chapter_frm.asp?LA=1

Caulkett, N.A.; Cattet, M.R.L.; Cantwell, S.; Cool, N.; Olsen, W., (2000), **Anesthesia of wood bison with medetomidine-zolazepam/tiletamine and xylazine-zolazepam/tiletamine combinations**. *Canadian Veterinary Journal*. Ottawa: Canadian Veterinary Medical Association. c1978- Jan. 2000, v. 41 (1), p. 49-53. Ref. ISSN: 0008-5286.

NAL Call no: 41.8 R3224

Descriptors: bison genus, anesthesia, efficacy, drug combinations, effects, adverse effects.

DelGiudice, G.D.; Krausman, P.R.; Bellantoni, E.S.; Etchberger, R.C.; Seal, U.S., (1989), **Reversal by tolazoline hydrochloride of xylazine hydrochloride-ketamine hydrochloride immobilizations in free-ranging desert mule deer**. *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Jul. 1989, v. 25 (3), p. 347-352. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: desert mule deer; immobilization, tolazine, xylazine, ketamine.

DeGiudice, G.D.; Seal, U.S.; Kreeger, T.J., (1988), **Xylazine and ketamine-induced glycosuria in white-tailed deer**. *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Apr. 1988, v. 24 (2), p. 317-321. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: white-tailed deer, xylazine, ketamine, glycosuria.

Evans, R.H., (2002), **Anesthesia and Restraint of Raccoons and Relatives (Carnivora, Procyonidae)**. *Zoological Restraint and Anesthesia*, edited by D. Heard.

http://www.ivis.org/special_books/Heard/evans/chapter_frm.asp?LA=1

Grubb, T.L.; Riebold, T.W.; Huber, M.J., (1993), **Evaluation of lidocaine, xylazine, and a combination of lidocaine and xylazine for epidural analgesia in llamas**. *Journal of the American Veterinary Medical Association*. v. 203 (10), p. 1441-1444. ill. ISSN: 0003-1488.

NAL Call no: 41.8 AM3

Descriptors: llamas, epidural analgesia, lidocaine, xylazine.

Gabor, Timothy M.; Hellgren, Eric C.; Silvy, Nova J., (1997), **Immobilization of collard peccaries (*Tayassu tajacu*) and feral hogs (*Sus scrofa*) with Telazol and xylazine.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. v. 33 (1), p. 161-164. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: collard peccaries, feral hogs, immobilization.

Heard, D.J., (1993), **Principles and techniques of anesthesia and analgesia for exotic practice.** *Veterinary Clinics of North America Small Animal Practice*. Philadelphia, PA: W.B. Saunders Company. v. 23 (6), p. 1301-1327. ISSN: 0195-1327.

NAL Call no: SF601.V523

Descriptors: exotic animals, analgesia, anesthesia.

Heard, D.J., (1995), **Principles and techniques of analgesia for zoological medicine.** *Proceedings of the Annual Veterinary Medical Forum American College of Veterinary Internal Medicine*. 1995, v. 13, p. 62-64. ISSN: 0894-7708.

NAL Call no: SF605.V47

Descriptors: analgesia, techniques, principles, zoo medicine.

Jalanka, H.H., (1992), **Physiologic responses to medetomidine, medetomidine-ketamine combinations, and atipamezole in nondomestic animals.** *Animal Pain*. Edited by Charles E. Short, Alan van Poznak, p. 220-224.

NAL Call no: SF910.P34A55 1992

Junge, Randall E., (1998), **Epidural analgesia in addax (*Addax nasomaculatus*).** *Journal of Zoo and Wildlife Medicine*. v. 29 (3), p. 285-287. ISSN: 1042-7260.

NAL Call no: SF601.J6

Descriptors: addax, epidural analgesia, sedation, pregnant females.

Kanui, T.I.; Hole, K., (1990), **Morphine induces aggression but not analgesia in the naked mole -rat (*Heterocephalus glaber*).** *Comparative Biochemistry and Physiology*. v. 96 (1), p. 131-133. ill. ISSN: 0742-8413.

NAL Call no: QP901.C6

Descriptors: naked mole-rat, morphine, aggression.

Kock, Michael, D.; Morkel, Pete; Atkinson, Mark; Foggin, Chris, (1995), **Chemical immobilization of free-ranging white rhinoceros (*Ceratotherium simum simum*) in Hwange and Matobo National Parks, Zimbabwe, using combinations of etorphine (M99), fentanyl, xylazine, and detomidine.** *Journal of Zoo and Wildlife Medicine*. v. 26 (2), p. 207-219. ISSN: 1042-7260.

NAL Call no: SF601.J6

Descriptors: white rhino, chemical immobilization, drug combinations.

Kreeger, T.J.; Vargas, A.; Plumb, G.E.; Thorne, E.T., (1998), **Ketamine-medetomidine or isoflurane immobilization of black-footed ferrets.** *Journal of Wildlife Management*. Bethesda, MD: Wildlife Society. v. 62 (2), p. 654-662. ISSN: 0022-541X.

NAL Call no: 410 J827

Descriptors: black-footed ferrets, analgesia, ketamine-medetomidine, isoflurane.

Kreeger, T.J.; Seal, U.S.; Tester, J.R., (1990), **Chemical immobilization of red foxes (*Vulpes vulpes*).** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. 1990, v. 26 (1), p.95-98. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: chemical immobilization, red foxes, ketamine, xylazine, promazine.

Kreeger, T.J.; Seal, U.S.; Callahan, M; Beckel, M., (1990), **Physiological and behavioral responses of grey wolves (*Canis lupus*) to immobilization with tiletamine and zolazepam.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. 1990, v. 26 (1), p. 90-94. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: immobilization, grey wolves, responses, tiletamine, zolazepam.

Kreeger, T.J.; Seal, U.S., (1990), **Immobilization of grey wolves (*Canis lupus*) with sufentanil citrate.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Oct. 1990, v. 26 (4), p. 561-563. ISSN: 0090-3558.
NAL Call no: 41.9 W64B

Descriptors: immobilization, grey wolves, sufentanil citrate.

Kreeger, T.J.; Mandsager, R.E.; Seal, U.S.; Callahan, M.; Beckel, M., (1989), **Physiological response of grey wolves to butorphanol-xylazine immobilization and antagonism by naloxone and yohimbine.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Jan. 1989, v. 25 (1), p. 89-94. ISSN: 0090-3558.
NAL Call no: 41.9 W64B

Descriptors: grey wolves, response, butorphanol, xylazine, naloxone, yohimbine.

Kreeger, T.J.; Seal, U.S.; Callahan, M.; Beckel, M., (1988), **Use of xylazine sedation with yohimbine antagonism in captive grey wolves.** *Journal of Wildlife Diseases*. Lawrence, KS: Wildlife Disease Association. Oct. 1988, v. 24 (4), p. 688-690. ISSN: 0090-3558.
NAL Call no: 41.9 W64B

Descriptors: grey wolves, xylazine, yohimbine.

Musson, Annabel, (1998), **The use of analgesics in the management of an orthopaedic disorder in a captive-bred male babirusa *Babirusa babirusa*.** *DODO*. v. 34, p. 145-152. ill. ISSN: 0265-5640.

Descriptors: treatment techniques, use of analgesics, orthopaedic disorder management.

Oukessou, M.; Zine, Filali R.; Van Gool, F.; Alvinerie, M., (1995), **Ketoprofen pharmacokinetics in camel (*Camelus dromedarius*).** *Indian Veterinary Journal*. 1995, v. 72 (3), p. 233-236. ISSN: 0019-6479.
NAL Call no: 41.8 IN2

Descriptors: camel, ketoprofen, pharmacokinetics.

Pablo, L.S.; Young, L.; Schumacher, J.; Bailey, J.; Ko, J.C.H., (1995), **Epidural morphine in a cheetah (*Acinonyx jubatus*) undergoing total hip replacement.** *Journal of Zoo and Wildlife Medicine*. v. 26 (3), p. 436-439. ill. ISSN: 1042-7260.

NAL Call no: SF601.J6

Descriptors: cheetah, epidural morphine, hip replacement.

Schumacher, Juergen; Heard, Darryl; Caligiuri, Randolph; Norton, Terry; Jacobson, Elliott, (1995), **Comparative effects of etorphine and carfentanil on cardiopulmonary parameters in juvenile African elephants (*Loxodonta africana*).** *Journal of Zoo and Wildlife Medicine*. 1995, v. 26 (4), p. 503-507. ISSN: 1042-7260.

NAL Call no: SF601.J6

Descriptors: elephant, etorphine, carfentanil, comparative effects.

Sedgwick, C.J., (1988), **Anesthesia for small nondomestic mammals.** *Contemporary Issues in Small Animal Practice*. v. 9, p. 209-229. ill. ISSN: 0891-9747.

NAL Call no: SF601.C64

Descriptors: anesthesia, small nondomestic mammals.

Singh, Shila; Peshin, P.K.; Krishnamurthy, D., (1994), **Pentazocine lactate and chlorpromazine hydrochloride as neurolept analgesics in camel (*Camelus dromedarius*).** *Indian Veterinary Journal*. 1994, v. 71 (10), p. 983-987. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: analgesics, camel, pentazocine, chlorpromazine.

Thiruthalinathan, R.; Swaminathan, D.; Selvam, N. Panneer, (1995), **Comparison of ketamine and ketamine-xylazine combination anaesthesia in wild canines under captivity.** *Journal of Veterinary and Animal Sciences*. v. 26 (1), p. 44-46. ISSN: 0090-3558.

NAL Call no: 41.9 W64B

Descriptors: captive wild canines, anaesthesia, ketamine, xylazine.

Thurmon, J.C.; Tranquilli, W.J.; Benson, G.J., (1992), **Alpha 2-Antagonist use in domestic and wild animal species.** *Animal Pain*. Edited by Charles E. Short, Alan Van Poznak, 1992, p. 237-247. ISBN: 0443087725. Ref.
NAL Call no: SF910.P34A55 1992

Descriptors: alpha 2-antagonist, domestic animals, wild animals.

Tiwari, S.K.; Kumar, Amresh, (1998), **Reversal of cardiopulmonary effects of epidural xylazine and detomidine by atipamezole or yohimbine in buffaloes (Bubalus bubalis).** *Indian Journal of Veterinary Surgery*. Jun. 1998, v. 19 (1), p. 16-19. ISSN: 0254-4105.

NAL Call no: SF604.I45

Descriptors: buffalo, analgesic drug, xylazine, detomidine.

Tomizawa, Nobuyuki; Tsujimoto, Tsunenori; Itoh, Kazum; Ogino, Tomoko; Nakamura, Kazuo; Hara, Shigeo, (1997), **Chemical restraint of African lions (Panthera leo) with medetomidine-ketamine.** *Journal of Veterinary Medical Science*. 1997, v. 59 (4), p. 307-310. ISSN: 0196-7250.

NAL Call no: SF604.J342

Descriptors: african lion, chemical restraint, medetomidine, ketamine.

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NAL Call no: 41.9 W64B

Descriptors: two-toed sloth, anesthetic, injectable.

Return to: [Title Page](#) / [Table of Contents](#)

Primates

Atzpodien, E.; Mehdi, N.; Clarke, D.; Radhofer, Welte S., (1997), **Subacute and chronic oral toxicity of lornoxicam in cynomolgus monkeys.** *Food and Chemical Toxicology*. British Industrial Biological Research Organization. 1997, v. 35 (5), p. 465-474. ISSN: 0278-6915.

NAL Call no: 391.8 F73

Descriptors: toxicity, lornoxicam, cynomolgus monkey.

Banknieder, A.R.; Phillips, J.M.; Jackson, K.T.; Vinal, S.I. Jr., (1978), **Comparison of ketamine with the combination of ketamine and xylazine for effective anesthesia in the rhesus monkey (Macaca mulatta).** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Dec. 1978, v. 28 (6), p. 742-745. ISSN: 002306764.

NAL Call no: 410.9 P94

Descriptors: ketamine, ketamine-xylazine combination, anesthesia, rhesus monkey.

Bloss, J.L.; Hammond, D.L., (1985), **Shock titration in the rhesus monkey: Effects of opiate and nonopiate analgesics.** *Journal of Pharmacology and Experimental Therapeutics*. 1985, v. 235 (2), p. 423-430. ISSN: 0022-1565.

NAL Call no: 396.8 J82

Descriptors: opiates, analgesia, shock, Macaca mulatta.

Butelman, E.R.; Winger, G.; Zernig, G.; Woods, J.H., (1995), **Butorphanol: Characterization of agonists and antagonists effects in rhesus monkeys.** *Journal of Pharmacology and Experimental Therapeutics*. Feb. 1995, v. 272 (2), p. 845-853. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: butorphanol, analgesia, rhesus, opioid, agonists, drug effects.

Craft, R.M.; Dykstra, L.A., (1992), **Agonist and antagonist activity of kappa opioids in the squirrel monkey: I. Antinociception and urine output.** *Journal of Pharmacology and Experimental Therapeutics*. Jan. 1992, v. 260 (1), p. 327-333. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesics, opioids, squirrel monkey, drug effects.

Craft, R.M.; Dykstra, L.A., (1992), **Agonists and antagonists activity of kappa opioids in the squirrel monkey: II. Effect of chronic morphine treatment.** *Journal of Pharmacology and Experimental Therapeutics*. 1992, v. 260 (1), p. 334-342. ISSN: 0022-1565.

NAL Call no: 396.8 J82

Descriptors: morphine, chronic effects, analgesia, squirrel monkey.

Denson, D.D.; Turner, P.A.; Bridenbaugh, P.O.; Thompson, G.A., (1984), **Pharmacokinetics and neural blockade after subarachnoid lidocaine in the rhesus monkey. III. Effects of phenylephrine.** *Anesthesia and Analgesia*. Feb. 1984, v. 63 (2), p. 129-133. ISSN: 0003-2999.

Descriptors: lidocaine, neural blockade, rhesus monkey, pharmacokinetics.

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Descriptors: lidocaine, rhesus, neural blockade, pharmacokinetics.

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Descriptors: lidocaine, spinal anesthesia, rhesus.

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NAL Call no: 396.8 J82

Descriptors: morphine, analgesia, squirrel monkey, dose response, adverse effects.

Dykstra, L.A.; Massie, C.A., (1988), **Antagonism of the analgesic effects of mu and kappa opioid agonists in the squirrel monkey.** *Journal of Pharmacology and Experimental Therapeutics*. Sep. 1988, v. 246 (3), p. 813-821. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: squirrel monkey, analgesic, antagonism effects, opioids.

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Descriptors: opioid peptides, agonists, analgesia, activity, squirrel monkey.

France, C.P.; Medzihradsky, F.; Woods, J.H., (1994), **Comparison of kappa opioids in rhesus monkeys: Behavioral effects and receptor binding affinities.** *Journal of Pharmacology and Experimental Therapeutics*. Jan. 1994, v. 268 (1), p. 47-58. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesics, binding sites, drug effects, opioids, rhesus.

France, C.P.; Winger, G.; Medzihradsky, F.; Seggel, M.R.; Rice, K.C.; Woods, J.H., (1991), **Mirfentanil: Pharmacological profile of a novel fentanyl derivative with opioid and nonopioid effects.** *Journal of Pharmacology and Experimental Therapeutics*. Aug. 1991, v. 258 (2), p. 502-510. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesics, fentanyl, drug effects, dosage.

Franklin, R.A.; Aldridge, A., (1976), **Pharmacokinetics and metabolism of the new analgesic meptazinol in rats and patas monkeys.** *Xenobiotica*. London: Taylor & Francis. Aug. 1976, v. 6 (8), p. 499-508. ISSN: 0049-8254.

NAL Call no: QD415.A1X4

Descriptors: meptazinol, rats, patas monkey, pharmacokinetics, metabolism.

Gatch, M.B.; Negus, S.S.; Mello, N.K., (1999), **Antinociceptive effects of cocaine in rhesus monkeys.** *Pharmacology Biochemistry and Behavior*. 1999, v. 62 (2), p. 291-297. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: pain perception, cocaine, antinociceptive effects, rhesus monkey.

Golub, M.S.; Eisele, J.H.; Donald, J.M., (1991), **Effect of intrapartum meperidine on the behavioral consequences of neonatal oxygen deprivation in rhesus monkey infants.** *Developmental Pharmacology and Therapeutics*. 1991, v. 16 (4), p. 231-240. ISSN: 0379-8305.

Descriptors: new born, rhesus, meperidine, drug effects, oxygen deprivation

Golub, M.S.; Eisele, J.H.; Kuhnert, B.R., (1988), **Disposition of intrapartum narcotic analgesics in monkeys.** *Anesthesia and Analgesia*. Jul. 1988, v. 67 (7), p. 637-643. ISSN: 0003-2999.

Descriptors: narcotic analgesics, monkeys, disposition.

Goodman, S.J.; Holcombe, V., **Selective and prolonged analgesia in monkey resulting from brain stimulation.** *Advances in pain research and therapy*. New York: Raven Press. 1976, v. 1, p. 495-502. ISSN: 0146-0722.

NAL Call no: RB127.W67

Descriptors: prolonged analgesia, monkey, brain stimulation.

Ha, H.; Tan, E.C.; Fukunaga, H.; Aochi, O., (1981), **Naloxone reversal of acupuncture analgesia in the monkey.** *Experimental Neurology*. Jul. 1981, v. 73 (1), p. 298-303. ISSN: 0014-4886.

NAL Call no: RC321.E96

Descriptors: naloxone reversal, acupuncture, analgesia, monkey.

Hammond, Donna L.; Bloss, James L., (1993), **Antinociceptive effects of SC-39566, an opioid dipeptide arylalkylamide, in the rhesus monkey.** *European Journal of Pharmacology*. 1993, v. 231 (2), p. 281-285. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: opioids, analgesia, rhesus monkey.

Kano, T.; Cowan, G.S.; Smith, R.H., (1976), **Electroanesthesia (EA) studies: EA produced by stimulation of sensory nerves of the scalp in rhesus monkeys.** *Anesthesia and Analgesia*. Jul.-Aug. 1975, v. 55 (4), p. 536-541. ISSN: 0003-2999.

Descriptors: electroanesthesia, studies, rhesus monkey.

Ko, Mei Chuan; Butelman, Eduardo R.; Woods, James H., (1998), **The role of peripheral mu opioid receptors in the modulation of capsaicin-induced thermal nociception in rhesus monkeys.** *Journal of Pharmacology and Experimental Therapeutics*. Jul. 1998, v. 286 (1), p. 150-156. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: rhesus monkey, opioid receptors, capsaicin, nociception.

Lewis, M.E.; Khachaturian, H.; Akil, H.; Watson, S.J., (1984), **Anatomical relationship between opioid peptides and receptors in rhesus monkey brain.** *Brain Research Bulletin*. Dec. 1984, v. 13 (6), p. 801-812. ISSN: 0361-9230.

Descriptors: opioid, receptors, rhesus monkey, brain.

Massopust, L.C. Jr.; Wolin, L.R.; Albin, M.S., (1972), **Electrophysiologic and behavioral responses to ketamine hydrochloride in the rhesus monkey.** *Anesthesia and Analgesia*. May-Jun. 1972, v. 51 (3), p. 329-241. ISSN: 0003-

2999.

Descriptors: ketamine, electrophysiologic response, behavioral response, rhesus.

Munt, P.L.; Bruzzese, T.; Algate, D.R., (1995), **Analgesic activity of the lysozyme peptide-N (N-L-threonyl-L-alpha-aspartyl)-L-tyrosine in the monkey and the dog.** *Arzneimittelforschung*. Jul. 1995, v. 45 (7), p. 805-809. ISSN: 0004-4172.

NAL Call no: RS1.A7

Descriptors: analgesia, monkey, dog, oral, rectal, dosage.

Nussmeier, N.A.; Benthuyssen, J.L.; Steffey, E.P.; Anderson, J.H.; Carstens, E.E.; Eisele, J.H. Jr.; Stanley, T.H., (1991), **Cardiovascular, respiratory, and analgesic effects of fentanyl in unanesthetized rhesus monkeys.** *Anesthesia and Analgesia*. Feb. 1991, v. 72 (2), p. 221-226. ISSN: 0003-2999.

Descriptors: rhesus, analgesia, drug effects, fentanyl.

O'Neill, M.F.; Dourish, C.T.; Tye, S.J.; Iversen, S.D., (1990), **Blockade of CCK-B receptors by L-365, 260 induces analgesia in the squirrel monkey.** *Brain Research*. Nov. 26, 1990, v. 534 (1-2), p. 287-290. ISSN: 0006-8993.

NAL Call no: Film S-1779

Descriptors: analgesia, squirrel monkey, administration, dosage.

Paronis, Carol A.; Woods, James H., (1997), **Ventilation in morphine-maintained rhesus monkeys: II. Tolerance to the antinociceptive but not the ventilatory effects of morphine.** *Journal of Pharmacology and Experimental Therapeutics*. 1997, v. 282 (1), p. 355-362. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: morphine, tolerance, rhesus monkey, ventilation.

Pert, A., (1975), **The cholinergic system and nociception in the primate: Interactions with morphine.** *Psychopharmacologia*. Oct. 1975, v. 44 (2), p. 131-137. ISSN: 0033-3158.

Descriptors: morphine, primates, cholinergic system, nociception.

Pert, A.; Maxey, G., (1975), **Asymmetrical cross-tolerance between morphine and scopolamine induced antinociception in the primate: Differential sites of action.** *Psychopharmacologia*. Oct. 1975, v. 44 (2), p. 136-145.

Descriptors: morphine, scopolamine, primate, cross tolerance, sites of action.

Ritzman, J.R.; Erickson, H.H.; Miller, E.D. Jr., (1976), **Cardiovascular effects of enflurane and halothane on the rhesus monkey.** *Anesthesia and Analgesia*. Jan.-Feb. 1976, v. 55 (1), p. 85-91. ISSN: 0003-2999.

Descriptors: enflurane, halothane, rhesus monkey, cardiovascular effects.

Sandrew, B.B.; Yang, R.C.; Wang, S.C., (1978), **Electro-acupuncture analgesia in monkeys: A behavioral and neurophysiological assessment.** *Archives Internationales de Pharmacodynamie et de Therapie*. Feb. 1978, v. 231 (2), p. 274-284. ISSN: 0003-9780.

NAL Call no: RM1.A73

Descriptors: electro-acupuncture, analgesia, monkeys, assessment.

Shyu, K.W.; Lin, M.T., (1985), **Hypothalamic monoaminergic mechanisms of aspirin-induced analgesia in monkeys.** *Journal of Neural Transmission*. 1985, v. 62 (3-4), p. 285-293. Ill. ISSN: 0300-9564.

Descriptors: Macaca cyclopis, aspirin, induced analgesia.

Shyu, K.W.; Lin, M.T.; Wu, T.C., (1984), **Possible role of central serotonergic neurons in the development of dental pain and aspirin-induced analgesia in the monkey.** *Experimental Neurology*. Apr. 1984, v. 84 (1), p. 179-187. ISSN: 0014-4886.

NAL Call no: RC321.E96

Descriptors: dental pain, aspirin analgesia, monkey, dosage, therapy.

Sisenwine, S.F.; Tio, C.O.; Liu, A.L.; Ruelius, H.W., (1982), **Pharmacokinetics of parenteral dezocine in rhesus monkeys and dogs.** *Drug Metabolism and Disposition*. Jul.-Aug. 1982, v. 10 (4), p. 366-370. ISSN: 0090-9556.

NAL Call no: RM300.A1D7

Descriptors: dizocine, rhesus monkey, pharmacokinetics.

Sparks, D.L.; Corssen, G.; Aizenman, B.; Black, J., (1975), **Further studies of the neural mechanisms of ketamine-induced anesthesia in the rhesus monkey.** *Anesthesia and Analgesia*. Mar.-Apr. 1975, v. 54 (2), p. 189-195. ISSN: 0003-2999.

Descriptors: ketamine, anesthesia, rhesus, mechanisms.

Sparks, D.L.; Corssen, G.; Sides, J.; Black, J.; Kholeif, A., (1973), **Ketamine-induced anesthesia: Neural mechanisms in the rhesus monkey.** *Anesthesia and Analgesia*. Mar. 1973, v. 52 (2), p. 288-297. ISSN: 0003-2999.

Descriptors: ketamine, anesthesia, rhesus, neural mechanisms.

Steelman, R.; Seale, N.S.; Bellinger, L.; Harris, M.; Wagner, M.; Williams, F., (1991), **Conscious sedation and analgesia with rectal ketamine in the Macaca fuscata monkey.** *Anesthesia Progress*. Mar.-Apr. 1991, v. 38 (2), p. 50-56. ISSN: 0003-3006.

Descriptors: ketamine, macaca, dose, anesthesia, analgesia.

Tame, Jennifer D.; Abrams, Laura M.; Ding, Xiu Ying; Yen, Andrew; Giussani, Dino A.; Nathaniel, Peter W., (1999), **Level of postoperative analgesia is a critical factor in regulation of myometrial contractility after laparotomy in the pregnant baboon: Implications for human fetal surgery.** *American Journal of Obstetrics and Gynecology*. May 1999, v. 180 (5), p. 1196-1201. ISSN: 0002-9378.

NAL Call no: RG1.A5

Descriptors: baboon, analgesia, postoperative, myometrial contractility.

Tang, A.H.; Kirch, J.D., (1973), **Analgetic activities of etoxadrol in the rhesus monkey and in mice.** *Anesthesia and Analgesia*. Jul.-Aug. 1973, v. 52 (4), p. 577-583. ISSN: 0003-2999.

Descriptors: etoxadrol, analgesia, rhesus, mice.

Thompson, G.A.; Turner, P.A.; Bridenbaugh, P.O.; Stuebing, R.C.; Denson, D.D., (1986), **The influence of diazepam on the pharmacokinetics of intravenous and epidural bupivacaine in the rhesus monkey.** *Anesthesia and Analgesia*. Feb. 1986, v. 65 (2), p. 151-155. ISSN: 0003-2999.

Descriptors: rhesus monkey, diazepam, pharmacokinetics.

Valverde, Celia R.; Mama, Khursheed, R.; Kollias-Baker, Cynthia; Steffey, Eugene P.; Baggot, J. Desmond, (2000), **Pharmacokinetics and cardiopulmonary effects of fentanyl in isoflurane-anesthetized rhesus monkeys (Macaca mulatta).** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Aug. 2000, v. 61 (8), p. 931-934. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: fentanyl, effects, isoflurane anesthesia, rhesus monkey.

Vivian, Jeffery A.; Kishioka, Shiroh; Butelman, Eduardo R.; Broadbear, Jillian; Lee, Katherine O.; Woods, James H., (1998), **Analgesic, respiratory and heart rate effects of cannabinoid and opioid agonists in rhesus monkeys: Antagonist effects of SR 141716.** *Journal of Pharmacology and Experimental Therapeutics*. Aug. 1998, v. 286 (2), p. 697-703. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: analgesia, respiratory, effects, cannabinoid, opioid, agonists, rhesus monkey.

Wang, Y.C.; Su, C.F.; Lin, M.T., (1985), **The site and the mode of analgesic actions exerted by clonidine in monkeys.** *Experimental Neurology*. 1985, v. 90 (3), p. 479-488. Ill. ISSN: 0014-4886.

NAL Call no: RC321.E96

Descriptors: Macaca cyclopis, analgesic action, clonidine, mode.

Yeomans, David C.; Cooper, Brian Y.; Vierck, Charles J. Jr., (1996), **Effects of systemic morphine on responses of primates to first or second pain sensations.** *Pain*. Amsterdam. 1996, v. 66 (2-3), p. 253-263. ISSN: 0304-3959.

NAL Call no: RB127.P34

Descriptors: morphine, effects, primates, pain.

Zouhar, R.L.; Tatsuno, J.; Smith, R.H.; Cullen, S.C., (1967), **Electroanesthesia studies: Causes of fading of electrical anesthesia in the rhesus monkey**. *Anesthesia and Analgesia*. May-Jun. 1967, v. 46 (3), p. 307-310. ISSN: 0003-2999. Descriptors: electroanesthesia, studies, rhesus, fading.

Return to: [Title Page](#) / [Table of Contents](#)

Rabbits & Rodents

Aeschbacher, G., (1995), **Rabbit anesthesia**. *Compendium on Continuing Education for the Practicing Veterinarian*. Trenton, N.J.: Veterinary Learning Systems Company. Aug. 1995, v. 17 (8), p. 1003-1011. ISSN: 0193-1903. Ref. NAL Call no: SF601.C66
Descriptors: rabbits, anesthesia, analgesics, injectable, inhaled, pharmacodynamics.

Brammer, D.W.; Doerning, B.J.; Chrisp, C.E.; Rush, H.G., (1991), **Anesthetic and nephrotoxic effects of Telazol in New Zealand white rabbits**. *Laboratory Animal Science*. American Association for Laboratory Animal Science. Oct. 1991, v. 41 (5), p. 432-435. ISSN: 0023-6764. Ref. NAL Call no: 410.9 P94
Descriptors: rabbits, injectable anesthetics, renal failure, toxicity, intramuscular injections.

Danneman, P.J.; White, W.J.; Marshall, W.K.; Lang, C.M., (1988), **An evaluation of analgesia associated with the immobility response in laboratory rabbits**. *Laboratory Animal Science*. American Association for Laboratory Animal Science. Feb. 1988, v. 38 (1), p. 51-57. ISSN: 0023-6764. Ref. NAL Call no: 410.9 P94
Descriptors: rabbits, analgesia, restraint, immobilization.

Erdine, Serdar; Yucel, Aysen; Ozyalcin, Suleyman; Ozyuvaci, Emine; Talu, Gul K.; Ahiskali, Bulent; Apak, Hasan; Savci, Nejat, (1999), **Neurotoxicity of midazolam in the rabbit**. *Pain*. Mar. 1999, v. 80 (1-2), p. 419-423. ISSN: 0304-3959. NAL Call no: RB127.P34
Descriptors: rabbit, midazolam, neurotoxicity.

Flecknell, P., (1998), **Developments in the veterinary care of rabbits and rodents**. *In Practice*. London: British Veterinary Association. 1979-Jun. 1998, v. 20 (6), p. 286-295. ISSN: 0263-841X. Ref. NAL Call no: SF601.I4
Descriptors: rabbits, antibiotics, dosage, analgesics, anesthetics, toxicity.

Flecknell, P.A.; Liles, J.H.; Wooton, R., (1989), **Reversal of fentanyl-fluanisone neuroleptanalgesia in the rabbit using mixed agonist-antagonist opioids**. *Laboratory Animals*. London: Royal Society of Medicine Services. Apr. 1989, v. 23 (2), p. 147-155. ISSN: 0023-6772. Ref. NAL Call no: QL55.A1L3
Descriptors: rabbits, anesthesia, fentanyl, neuroleptics, drug antagonism.

Flecknell, P.A., (1991), **Post-operative analgesia in rabbits and rodents**. *Lab Animal*. New York, N.Y.: Nature Publishing Company. Oct. 1991, v. 20 (9), p. 34-37. ISSN: 0093-7355. Ref. NAL Call no: QL55.A1L3
Descriptors: laboratory animals, pain, post-operative care, analgesics.

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NAL Call no: QL55.A1L3

Descriptors: rabbits, anaesthesia, isoflurane, effects.

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NAL Call no: QL55.A1L3

Descriptors: rabbits, anaesthesia, halothane, equipment, effects.

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NAL Call no: QL55.A1L3

Descriptors: rabbits, rodents, anesthetics, fentanyl, drug combinations.

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Descriptors: rabbits, hyoscyamine, conjunctival reflex test.

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NAL Call no: Sf914.A53 1990

Descriptors: rabbits, anesthetics, analgesics.

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NAL Call no: 41.8 AM3A

Descriptors: dogs, sheep, rabbits, analgesics, species differences.

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NAL Call no: QL55.A1L3

Descriptors: rats, mice, rabbits, pain, analgesics, anti-inflammatory agents.

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NAL Call no: 410.9 P94

Descriptors: New Zealand white rabbits, anesthesia, ketamine, fentanyl, propofol.

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NAL Call no: 410.9 P94

Descriptors: anesthesia, fentanyl, intravenous, rabbits, analgesia, assessment.

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NAL Call no: QL55.A1L3

Descriptors: new zealand white rabbits, anesthesia, ketamine, propofol, potency.

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NAL Call no: 41.8 AM3A

Descriptors: rabbits, analgesics, pharmacokinetics, half-life, injection.

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NAL Call no: 410.9 P94

Descriptors: rabbits, anesthesia, ketamine, xylazine, drug combinations, duration.

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NAL Call no: QL55 A1L3

Descriptors: rabbits, buprenorphine, disease, effect.

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NAL Call no: 41.8 IN2

Descriptors: rabbits, anaesthesia, ketamine, medetomidine.

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Descriptors: rabbits, electro-acupuncture, analgesia.

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Descriptors: pain, analgesia, rabbits.

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NAL Call no: QL55.A1L3

Descriptors: rabbits, anesthesia, neuroleptics, drug combinations.

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NAL Call no: QL55.A1L3

Descriptors: rabbits, anesthesia, analgesics, dosage effect.

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Descriptors: rodents, anesthesia, analgesics.

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Descriptors: rabbit, midazolam, smooth muscle, mesenteric artery.

Return to: [Title Page](#) / [Table of Contents](#)

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NAL Call no: 41.8 V641

Descriptors: rats, pain, analgesics, drug effects.

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NAL Call no: RS164.P59

Descriptors: medicinal plants, edema, analgesics, rats, pain, rubiaceae.

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NAL Call no: RB127.P34
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Descriptors: rats, analgesics, diabetes, pain drug effects.

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NAL Call no: 396.8 B77
Descriptors: pain perception, analgesia, brain, rats, bradykinin receptors.

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NAL Call no: Film S-1779
Descriptors: rat, sex differences, cocaine, nicotine, analgesics.

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NAL Call no: QL55.A1L3
Descriptors: rats, anesthetics.

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NAL Call no: QL55A1L33
Descriptors: rats, buprenorphine jello, oral, postoperative analgesia.

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NAL Call no: 41.8 V641

Descriptors: rats, analgesics, pain, ketoprofen, oral administration.

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NAL Call no: QL55.A1L3

Descriptors: rats, surgery, anesthesia, halothane, locomotion, food and water intake.

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NAL Call no: QP901.P4

Descriptors: analgesia, pain perception, drug tolerance, hypoalgesia, rats.

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Language: German with a summary in English.

NAL Call no: DISS F1994069

Descriptors: rat brain, neurotransmitters, dopamine, noradrenaline, effects.

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Language: French.

Descriptors: analgesia, nitric oxide, adrenergic receptors.

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Descriptors: rats, alcohol, analgesia.

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NAL Call no: Film S-1779

Descriptors: pain, analgesia, sensory systems, rat.

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NAL Call no: 389.8 J82

Descriptors: undernutrition, stress, pain, rats, young animals, protein deficiencies.

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NAL Call no: QL55A1L3

Descriptors: rats, local anesthetics, analgesics, postoperative care, pain.

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NAL Call no: QL55A1L3

Descriptors: rats, ketamine/medetomidine, repeated anaesthesia.

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Descriptors: analgesia, tyrptophan, metabolites, rat.

Hu, C.; Flecknell, P.A.; Liles, J.H., (1992), **Fentanyl and medetomidine anaesthesia in the rat and its reversal using atipamazole and either nalbuphine or butorphanol.** *Laboratory Animals*. London: Royal Society of Medicine Services. Jan. 1992, v. 26 (1), p. 15-22. ISSN: 0023-6772. Ref.

NAL Call no: QL55.A1L3

Descriptors: rats, anesthesia, fentanyl, agonists, antagonists, drug combinations.

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NAL Call no: 442.8 L62

Descriptors: rat, analgesics, audible, ultrasonic, pain.

Kanarek, R.B.; Gerstein, A.V.; Wildman, R.P.; Mathes, W.F.; D'Anci, K.E., (1998), **Chronic running-wheel activity decreases sensitivity to morphine-induced analgesia.** *Pharmacology, Biochemistry and Behavior*. 1998, v. 61 (1), p. 19-27. ISSN: 0091-3057.

NAL Call no: QP901.P4

Descriptors: physical activity, sensitivity, morphine tolerance, rats.

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NAL Call no: 410.9 P94

Descriptors: rats, flunixin, analgesics, overdose, drug toxicity, adverse effects.

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NAL Call no: QP901.C6

Descriptors: method, analgesic effect, detecting, pain, rat.

Li, Jin; Li, Xin; Pei, Gang; Qin, Bo Yi, (1999), **Analgesic effect of agmatine and its enhancement on morphine analgesia in mice and rats.** *Acta Pharmacologica Sinica*. Jan. 1999, v. 20 (1), p. 81-85. ISSN: 0253-9756.

Descriptors: rats, analgesic, agmatine, morphine, enhancement.

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NAL Call no: 442.8 L62

Descriptors: morphine, tolerance, rats, arthritic.

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NAL Call no: QL55 A1L3

Descriptors: rats, morphine, naltrexone, oral administration, analgesics, pain.

Liles, J.H.; Flecknell, P.A., (1994), **A comparison of the effects of buprenorphine, carprofen and flunixin following laparotomy in rats.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, Eng.: Blackwell Scientific Publications. 1978- Aug. 1994, v. 17 (4), p. 284-290. ISSN: 0140-7783. Ref.

NAL Call no: SF915.J63

Descriptors: rats, flunixin, analgesics, pain, laparotomy, drug combinations.

Liles, J.H.; Flecknell, P.A., (1993), **The effects of surgical stimulus on the rat and the influence of analgesic treatment.** *British Veterinary Journal*. Bailliere Tindall. Nov.-Dec. 1993, v. 149 (6), p. 515-525. ISSN: 0007-1935. Ref.

NAL Call no: 41.8 V643

Descriptors: pain, surgery, rats, analgesics.

Liles, J.H.; Flecknell, P.A., (1993), **The influence of buprenorphine or bupivacaine on the post-operative effects of laparotomy and bile-duct ligation in rats.** *Laboratory Animals*. London: Royal Society of Medicine Services . Oct. 1993, v. 27 (4), p. 374-380. ISSN: 0023-6772. Ref.

NAL Call no: QL55 A1L3

Descriptors: rats, analgesics, postoperative care.

Liles, J.H.; Flecknell, P.A., (1992), **The effects of buprenorphine, nalbuphine and butorphanol alone or following halothane anaesthesia on food and water consumption and locomotor movement in rats.** *Laboratory Animals*. Lond on: Royal Society of Medicine Services. Jul. 1992, v. 26 (3), p. 180-189. ISSN: 0023-6772. Ref.

NAL Call no: QL55.A1L3

Descriptors: rats, anesthesia, halothane, analgesics, food and water consumption.

Liles, J.H.; Flecknell, P.A., (1993), **Pain assessment and relief in rats.** *Welfare and science proceedings of the Fifth Symposium of the Federation of European Laboratory Animal Science Associations*. 8-11 June, 1993. London: Royal Society of Medicine Press. 1994, p. 14-19. ISBN: 1853152404. Ref.

NAL Call no: QL55.F43 1993

Descriptors: rats, pain, analgesia, animal welfare, experimental surgery.

Lopez, Munoz Francisco Javier; Ventura, Rosa; Diaz, M. Irene; Fernandez, Guasti Alanso; Tost, Digna; Cabre, Francesc; Mauleon, David, (1998), **Antinociceptive effects of S (+) -ketoprofen and other analgesic drugs in a rat model of pain induced by uric acid.** *Journal of Clinical Pharmacology*. Dec. 1998, v. 38 (12 suppl.), p. 11S-21S. ISSN: 0091-2700.

NAL Call no: RM300.J6

Descriptors: analgesic drugs, effects, rat, pain.

Machelska, Halina; Pflueger, Martina; Weber, Werner; Piranvisseh, Voelk Mojgan; Daubert, Jeffery D.; Dehaven, Robert; Stein, Christoph, (1999), **Peripheral effects of the kappa-opioid agonist EMD 61753 on pain and inflammation in rats and humans.** *Journal of Pharmacology and Experimental Therapeutics*. Jul. 1999, v. 290 (1), p. 354-361. ISSN: 0022-3565.

NAL Call no: 396.8 J82

Descriptors: pain, inflammation, rats, kappa-opioid, agonist, effects.

Magalhaes, J.F.G.; Viana, C.F.G.; Aragao, Junior, A.G. M.; Moraes, V.G.; Ribeiro, R., (1997), **Analgesic and anti-inflammatory activities of Ageratum conyzoides in rats.** *Phytotherapy Research:PTR*. May, 1997, v. 11 (3), p. 183-188. ISSN: 0951-418X. Ref.

NAL Call no: RS164.P59

Descriptors: rats, traditional medicine, Brazil.

Marsh, Deborah; Dickenson, Anthony; Hatch, David; Fitzgerald, Maria, (1999), **Epidural opioid analgesia in infant rats I: Mechanical and heat responses.** *Pain*. Jul. 1999, v. 82 (1), p. 23-32. ISSN: 0304-3959.

NAL Call no: RB127.P34

Descriptor: epidural opioid, infant rats, analgesia, response.

Marsh, Deborah; Dickenson, Anthony; Hatch, David; Fitzgerald, Maria, (1999), **Epidural opioid analgesia in infant rats II: Responses to carrageenan and capsaicin.** *Pain*. Jul. 1999, v. 82 (1), p. 33-38. ISSN: 0304-3959.

NAL Call no: RB127.P34

Descriptors: infant rats, opioid, analgesia, carrageenan, capsaicin.

Mazario, Javier; Herrero, Juan F., (1999), **Antinociceptive effects of metamizol (dipyrone) in rat single motor units.** *Neuroscience Letters*. Oct. 29, 1999, v. 274 (3), p. 179-182. ISSN: 0304-3940.

NAL Call no: QP351.N3

Descriptors: rat, metamizol, single motor units, effect.

Nanra, R.S.; Kincaid-Smith, P., (1986), **Experimental renal effects of analgesics, rat.** *Urinary system*. Edited by T.C. Jones, U. Mohr, R.D. Hunt. Berlin: Springer Verlag, c1986. P. 254-262. Ill. ISBN: 0387165916. Ref.

NAL Call no: RC900.5.U7

Descriptors: rats, kidney disease, toxicity, analgesics.

Pinto, Luisa; Borrelli, Francesca; Bombardelli, Ezio; Cristoni, Aldo; Capasso, Francesco, (1998), **Anti-inflammatory, analgesic and antipyretic effects of glaucine in rats and mice.** *Pharmacy and Pharmacology Communications*. Oct. 1998, v. 4 (10), p. 502-505. ISSN: 1460-8081.

Descriptors: rats, mice, anti-inflammatory, analgesic,

Pinto, Luisa; Borrelli, Francesca; Bombardelli, Ezio; Cristoni, Aldo; Capasso, Francesco, (1998), **Anti-inflammatory, analgesic and antipyretic effects of glaucine in rats and mice.** *Pharmacy and Pharmacology Communications*. Oct. 1998, v. 4 (10), p. 502-505. ISSN: 1460-8081.

Descriptors: rats, mice, anti-inflammatory, analgesic, antipyretic, effects, glaucine.

Przewlocka, Barbara; Mika, Joanna; Labuz, Dominika; Toth, Geza; Przewlocki, Ryszard, (1999), **Spinal analgesic action of endomorphins in acute, inflammatory and neuropathic pain in rats.** *European Journal of Pharmacology*. Feb. 19, 1999, v. 367 (2-3), p. 189-196. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: spinal analgesia, endomorphins, rat, neuropathic pain.

Quevedo, Joao; Pizzol, Filipe Dal; Silva, Tatiane Da; Ferreira, Maria Beatriz C., (1998), **Antinociceptive effect induced by fentanyl and its interaction with MK-801 in rats.** *Medical Science Research*. Dec. 1998, v. 26 (12), p. 839-840. ISSN: 0269-8951.

Descriptors: fentanyl, MK-801, effect, rats.

Reimann, Wolfgang; Schluetz, Harald; Selve, Norma, (1999), **The antinociceptive effects of morphine, desipramine, and serotonin and their combinations after intrathecal injection in the rat.** *Anesthesia and Analgesia*. Jan. 1999, v. 88 (1), p. 141-145. ISSN: 0003-2999.

Descriptors: morphine, desipramine, serotonin, combinations, rat.

Ronai, Andras; Timar, Julianna; Mako, Eva; Erdo, Franciska; Gyarmati, Zsuzsanna; Toth, Geza; Orosz, Gyorgy; Furst, Susanne; Szekely, Jozsef I., (1998), **Diprotin A, an inhibitor of dipeptidyl aminopeptidase IV (EC 3.4.14.5) produces naloxone-reversible analgesia in rats.** *Life Sciences*. Dec. 4, 1998, v. 64 (2), p. 145-152. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: rats, analgesia, inhibitor, diprotin A, naloxone.

Roughan, J.V.; Burzaco, Ojeda O.; Flecknell, P.A., (1999), **The influence of pre-anaesthetic administration of buprenorphine on the anaesthetic effects of ketamine/medetomidine and pentobarbitone in rats and the consequences of repeated anaesthesia.** *Laboratory Animals*. London, Royal Society of Medicine Press Ltd. Jul. 2000, v. 33 (3), p. 234-242. ISSN: 0023-6772.

NAL Call no: QL55 A1L3

Descriptors: rats, anaesthetics, analgesics, ketamine, buprenorphine, pentobarbitol.

Saito, Yoji; Kaneko, Megumi; Kirihara, Yumiko; Sakura, Sinichi; Kosaka, Yoshihiro, (1998), **Characteristics of tolerance to somatic and visceral antinociception after continuous epidural infusion of morphine in rats.** *Anesthesia and Analgesia*. Dec. 1998, v. 87 (6), p. 1340-1345. ISSN: 0003-2999.

Descriptors: morphine, rats, epidural infusion, tolerance.

Sandrini, Maurizio; Ottani, Alessandra; Vitale, Giovanni; Ping, Luigi Alberto, (1998), **Acetylsalicylic acid potentiates**

the antinociceptive effect of morphine in the rat: Involvement of the central serotonergic system. *European Journal of Pharmacology*. Aug. 21, 1998, v. 355 (2-3), p. 133-140. ISSN: 0014-2999.

NAL Call no: QP901.E8

Descriptors: rat, brain, nervous system, morphine, glucose.

Siegal, Shepard, (1999), **Glucose enhancement of tolerance to morphine and ethanol in rats.** *Psychobiology*. Sept. 1999, v. 27 (3), p. 372-376. ISSN: 0889-6313.

Descriptors: alcohol, tolerance, glucose, rats, morphine, drug tolerance, analgesia.

Testa, R.; Angelico, P.; Abbiati, G.A., (1987), **Effect of citalopram, amineptine, imipramine and nortriptyline on stress-induced (footshock) analgesia in rats.** *Pain*. Journal of the International Association for the Study of Pain. Amsterdam: Elsevier Science Publishers. May. 1987, v. 29 (2), p. 247-255. ISSN: 0304-3959. Ref.

NAL Call no: RB127.P34

Descriptors: rats, anesthesia, analgesics, stress, pain.

Tsang, Brian K.; He Zhi; Wongchanapai, Wichai; Ho, Ing K.; Eichhorn, John H., (1998), **Visceral analgesic tolerance to intrathecal butorphanol in rats.** *Canadian Journal of Anaesthesia*. Oct. 1998, v. 45 (10), p. 1019-1023. ISSN: 0832-610X.

Descriptors: visceral analgesic tolerance, rats, butorphanol.

Velankar, S.S.; Sharma, R.K.; Reddy, A. Gopala, (1998), **Comparative studies on analgesic activity of individual and combinations of certain non-steroidal anti-inflammatory drugs in rats.** *Indian Veterinary Medical Journal*. Sept. 1998, v. 22 (3), p. 199-202. ISSN: 0250-5266.

NAL Call no: SF601.I45

Descriptors: analgesia, non-steroidal, anti-inflammatory, combinations, rats.

Vendite, D.; Rocha, J.B.T.; Souza, D.O., (1990), **Effects of undernutrition during suckling on novelty-induced analgesia in young and adult rats.** *Physiological Behavior*. Elmsford, N.Y.: Pergamon Press. Feb. 1990, V. 47 (2), p. 393-395. ISSN: 0031-9384. Ref.

NAL Call no: QP1.P4

Descriptors: rats, suckling, undernutrition, analgesics.

Waynforth, H.B.; Flecknell, P.A., (1992), *Experimental and surgical techniques in the rat*. 2nd ed. Academic Press, London. 382 p. ISBN: 0127388516.

NAL Call no: QL737.R666 W38

Descriptors: surgical techniques, experimental techniques, rat.

Whelan, G.; Flecknell, P.A., (1994), **The use of etorphine-methotrimeparzine and midazolam as an anaesthetic technique in laboratory rats and mice.** *Laboratory animals*. London: Royal Society of Medicine Services. Jan. 1994, v. 28 (1), p. 70-77. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: anaesthesia technique, rats, mice, etorphine-methotrimeparzine, midazolam.

Wiertelak, E.P.; Watkins, L.R.; Maier, S.F., (1992), **Conditioned inhibition of analgesia.** *Animal Learning and Behavior*. Austin, TX.: Psychonomic Society. Nov. 1992, v. 20 (4), p. 339-349. ISSN: 0090-4996. Ref.

NAL Call no: QL785.A725

Descriptors: pain, rats.

Xu, X.J.; Wiesenfeld, Hallin E., (1994), **Is systematically administered oxytocin an analgesic in rats.** *Pain*. Amsterdam. Elsevier Science Publishers. May 1994, v. 57 (2), p. 193-196. ISSN: 0304-3959. Ref.

NAL Call no: RB127.P34

Descriptors: rats, oxytocin, pain, drug effects, heat.

Yu, Hsiu Hing; Sun, Pin; Hou, Wen Yuong, (1998), **Prolonged local anesthetic affect of bupivacaine liposomes in rats.** *International Journal of Pharmaceutics*. Amsterdam. Dec. 30, 1998, v. 176 (1), p. 133-136. ISSN: 0378-5173.

NAL Call no: RS122.A1I5

Descriptors: prolonged local anesthetic, bupivacaine, rats.

Zharkovsky, A.; Katajamaki, J.; Seppala, T.; Ahtee, L., (1999), **Morphine-induced analgesia in rats withdrawn from concurrent nimodipine and morphine treatment.** *Pain*. Feb. 1999, v. 79 (2-3), p. 217-222. ISSN: 0304-3959.

NAL Call no: RB127.P34

Descriptors: morphine, analgesia, rats.

Return to: [Title Page](#) / [Table of Contents](#)

Sheep

Booke, Michael; Armstrong, Cathy; Hinder, Frank; Conroy, Brendan; Traber, Lillian D.; Traber, Daniel L., (1996), **The effects of propofol on hemodynamics and renal blood flow in healthy and in septic sheep, and combined with fentanyl in septic sheep.** *Anesthesia and Analgesia*. 1996, v. 82 (4), p. 738-742. ISSN: 0003-2999.

Descriptors: sheep, propofol, fentanyl, septic.

Bossut, D.F.B.; Stromberg, M.W.; Malven, P.V., (1986), **Electroacupuncture-induced analgesia in sheep: Measurement of cutaneous pain thresholds and plasma concentrations of prolactin and beta-endorphin immunoreactivity.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Mar. 1986, v. 47 (3), p. 669-676. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: sheep, anesthesia, acupuncture, pain, prolactin, endorphins.

Bouaziz, Herve; Tong, Chuanyao; Eisenach, James C., (1995), **Postoperative analgesia from intrathecal neostigmine in sheep.** *Anesthesia and Analgesia*. 1995, v. 80 (6), p. 1140-1144. ISSN: 0003-2999.

Descriptors: analgesia, postoperative, sheep, intrathecal neostigmine.

Byagagaire, S.D.; Mbiuki, S.M., (1984), **Duration of analgesia in sheep under xylazine/ketamine anaesthesia.** *Veterinary Record*. London: British Veterinary Association. Jan. 7, 1984, v. 114 (1), p. 15-16. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: sheep, xylazine, ketamine, analgesia, duration.

Celly, C.S.; McDonnell, W. N.; Young, S.S.; Black, W.D., (1997), **The comparative hypoxaemic effect of four alpha 2 adrenoceptor agonists (xylazine, romifidine, detomidine and medetomidine) in sheep.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, England: Blackwell Scientific Ltd. Dec. 1997, v. 20 (6), p. 464-471. ISSN: 0140-7783. Ref.

NAL Call no: SF915.J63

Descriptors: sheep, xylazine, detomidine, medetomidine, analgesics, effects.

Cerda, Sergio; Tong, Chuanyao; Deal, Dwight; Eisenach, James C., (1997), **A physiologic assessment of intrathecal amitriptyline in sheep.** *Anesthesiology*. Hagerstown. 1997, v. 86 (5), p. 1094-1103. ISSN: 0003-3022.

Descriptors: sheep, amitriptyline, intrathecal, assessment.

Chambers, J.P.; Waterman, A.E.; Livingston, A., (1995), **The effects of opioid and alpha 2 adrenergic blockade on non-steroidal anti-inflammatory drug analgesia in sheep.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, England: Blackwell Scientific Publications. 1978-Jun.1995, v. 18 (3), p. 161-166. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: sheep, non-steroidal-antiinflammatory agents, flunixin, analgesics, pain.

Clapp, James F. Iii; Kett, Attila; Olariu, Aniculina; Omoniyi, Abimbola T.; Wu, Dunli; Kin, Hyungjin; Szeto, Haze H.,

(1998), **Cardiovascular and metabolic responses to two receptor-selective opioid agonists in pregnant sheep.** *American Journal of Obstetrics and Gynecology*. Feb. 1998, v. 178 (2), p. 397-401. ISSN: 0002-9378.

NAL Call no: RG1.A5

Descriptors: sheep, opioid agonists, cardiovascular, metabolic, reponses.

Clutton, R.E.; Murison, P.J.; Funnell, O.D., (1998), **Anaesthesia for lambs undergoing spinal surgery: A case series.** *Laboratory Animals*. London: Royal Society of Medicine Press Ltd. Oct. 1998, v. 32 (4), p. 414-421. Ref. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: lambs, halothane, nitrous oxide, analgesics, injectable anesthetics.

Drager, Christiane; Benziger, David; Gao, Feng; Berde, Charles B., (1998), **Prolonged intercostal nerve blockade in sheep using controlled-release of bupivacaine and dexamethasone from polymer microspheres.** *Anesthesiology*. Hagerstown. Oct. 1998, v. 89 (4), p. 969-979. ISSN: 0003-3022.

Descriptors: sheep, bupivacaine, nerve block, controlled release.

Eisenach, J.C., (1992), **Intraspinal alpha 2 adrenergic analgesia in sheep.** *Animal Pain*. Edited by Charles E. Short, Alan Van Poznak. New York: Churchill Livingstone. 1992, p. 277-280, 311-312. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: sheep, analgesics, agonists, spinal cord, drug effects, anesthesia.

Gessert, M.E.; Scott, P.R., (1995), **Combined xylazine and lidocaine caudal epidural injection in the treatment of ewes with preparturient vaginal or cervico-vaginal prolapse.** *Agri Practice*. Santa Barbara, CA., Veterinary Practice Pub. Co. Sept. 1995, v. 16 (8), p. 15-17. Ref. ISSN: 0745-452X.

NAL Call no: SF601.B6

Descriptors: ewes, xylazine, lidocaine, vaginal prolapse.

Graham, M.J.; Kent, J.E.; Molony, V., (1997), **Effects of four analgesic treatments on the behavioural and cortisol responses of 3 week-old lambs to tail docking.** *Veterinary Journal*. 1997, v. 153 (1), p. 87-97. ISSN: 1090-0233.

NAL Call no: SF601.V484

Descriptors: lambs, tail docking, analgesic treatments.

Grant, C.; Upton, R.N.; Kuchel, T.R., (1996), **Efficacy of intra-muscular analgesics for acute pain in sheep.** *Australian Veterinary Journal*. Brunswick, Vic.: Australian Veterinary Association. 1927-Apr. 1996, v. 73 (4), p. 129-132. Ref. ISSN: 0005-0423.

NAL Call no: 41.8 Au72

Descriptors: sheep, pain, analgesics, methadone, flunixin, xylazine, efficacy.

Huang, Yi Fei; Pryor, Marie E.; Mather, Laurence; Veering, Bernadette T., (1998), **Cardiovascular and central nervous system effects of intravenous levobupivacaine and bupivacaine in sheep.** *Anesthesia and Analgesia*. Apr. 1998, v. 86 (4), p. 797-804. ISSN: 0003-2999.

Descriptors: sheep, bupivacaine, levobupivacaine, cardiovascular, CNS.

Illum, L.; Davis, S.S.; Pawula, M.; Fisher, A.N.; Barrett, D.A.; Farraj, N.F.; Shaw, P.N., (1996), **Nasal administration of morphine-6-glucuronide in sheep: A pharmacokinetic study.** *Biopharmaceutics and Drug Disposition*. 1996, v. 17 (8), p. 717-724. ISSN: 0142-2782.

NAL Call no: RM301.4.B56

Descriptors: sheep, morphine, nasal administration.

Ley, S.; Waterman, A.; Livingston, A., (1991), **The influence of chronic pain on the analgesic effects of the alpha 2-adrenoceptor agonist, xylazine, in sheep.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Jun. 1991, v. 14 (2), p. 141-144. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: sheep, xylazine, pain, drug effects, analgesia.

Ley, S.; Waterman, A.; Livingston, A., (1990), **Variation in the analgesic effects of xylazine in different breeds of sheep.** *Veterinary Record*. Journal of the British Veterinary Association. May 19, 1990, v. 126 (20), p. 508. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: sheep, xylazine, breed differences, drug effects.

Lin, H.C.; Tyler, J.W.; Welles, E.G.; Spano, J.S.; Thurmon, J.C.; Wolfe, D.F., (1993), **Effects of anesthesia induced and maintained by continuous intravenous administration of guaifenesin, ketamine, and xylazine in spontaneously breathing sheep.** *American Journal of Veterinary Research*. American Veterinary Medical Association. Nov. 1993, v. 54 (11), p. 1913-1916. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: sheep, anaesthesia, guaifenesin, ketamine, xylazine, intravenous injection.

Livingston, A.; Waterman, A.E.; Nolan, A.; Amin, A., (1992), **Comparison of the thermal and mechanical antinociceptive actions of opioids and alpha 2 adrenergic agonists in sheep.** *Animal Pain*. Edited by Charles E. Short, Alan Van Poznak, New York: Churchill Livingstone, 1992, p. 372-377, 400. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: sheep, agonists, opioids, analgesics, xylazine, fentanyl, pithidine.

Livingston, A.; Waterman, A.E.; Nolan, A.; Morris, R.; Ley, S.J.; Headley, P.M., (1992), **The sheep as a model for experiments: Pain studies.** *Animal Pain*. Edited by Charles E. Short, Alan Van Poznak. New York: Churchill Livingstone, 1992, p. 364-371, 399. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: sheep, pain, analgesics, models.

Livingston, A.; Waterman, A.E.; Bouchenafa, O.; Kyles, A., (1992), **Antinociceptive effects of intrathecal opioids and alpha 2 agonists in sheep.** *Animal Pain*. Edited by Charles E. Short, Alan Van Poznak. New York: Churchill Livingstone, 1992, p. 281-191, 312. Ref. ISBN: 0443087725.

NAL Call no: SF910.P34A55 1992

Descriptors: sheep, agonists, opioids, drug effects, analgesics, xylazine, dosage.

Ludbrook, Guy L.; Upton, Richard N.; Grant, Cliff; Martinez, Alison, (1998), **The effect of rate of administration on brain concentrations of propofol in sheep.** *Anesthesia and Analgesia*. Jun. 1998, v. 86 (6), p. 1301-1306. ISSN: 0003-2999.

Descriptors: propofol, brain concentration, rate of administration, sheep.

Main, D.C.J.; Waterman, A.E.; Kilpatrick, I.C.; Jones, A., (1997), **An assessment of the peripheral antinociceptive potential of remoxipride, clonidine and fentanyl in sheep using the forelimb tourniquet.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford, England: Blackwell Scientific Ltd. Jun. 1997, v. 20 (3), p. 220-228. ISSN: 0140-7783. Ref.

NAL Call no: SF915.J63

Descriptors: sheep, pain, analgesics clonidine, fentanyl, drug effects.

Mather, Laurence E.; Huang, Yi Fei; Veering, Bernadette; Pryor, Marie E., (1998), **Systemic and regional pharmacokinetics of levobupivacaine and bupivacaine enantiomers in sheep.** *Anesthesia and Analgesia*. Apr.1998, v. 86 (4), p. 805-811. ISSN: 0003-2999.

Descriptors: sheep, bupivacaine, levobupivacaine, systemic, regional.

Mohammed, F.K.; Zangana, I.K.; Abdul, Latif A.R., (1995), **Reversal of medetomidine sedation in sheep by atipamezole and yohimbine.** *Veterinary and Human Toxicology*. Manhattan, KS. Apr. 1995, v. 37 (2), p. 97-99. Ref. ISSN: 0145-6296.

NAL Call no: SF601.A47

Descriptors: sheep, yohimbine, antagonists, analgesics, medetomidine.

Mohammed, A.; Liman, M.S., (1998), **Xylazine (Chanazine) as an epidural anaesthetic agent in sheep.** *Small*

Ruminant Research. Amsterdam: Elsevier. Jan., 1998, v. 27 (1), p. 85-87. ISSN: 0921-4488.

NAL Call no: SF380.I52

Descriptors: sheep, xylazine, anaesthetic.

Muge, D.K.; Chambers, J.P.; Livingston, A.; Waterman, A.E., (1994), **Analgesic effects of medetomidine in sheep.** *Veterinary Record*. London: The British Veterinary Medical Association. Jul. 9, 1994, v. 135 (2), p. 43-44. ISSN: 0042-4900. Ref.

NAL Call no: 41.8 V641

Descriptors: ewes, medetomidine, pain, drug effects, analgesia.

O'Hair, K.O.; Dodd, K.T.; Phillips, Y.Y.; Beattie, R.J., (1988), **Cardiopulmonary effects of nalbuphine hydrochloride and butorphanol tartrate in sheep.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Feb. 1988, v. 38 (1), p. 58-61. Ref. ISSN: 0023-6764.

NAL Call no: 410.9 P94

Descriptors: sheep, analgesics, drug effects, cardiovascular system.

Payne, Richard; Gradert, Tamara L.; Inturrisi, Charles E., (1996), **Cerebral spinal fluid distribution of opioids after intraventricular and lumbar subarachnoid administration in sheep.** *Life Sciences*. 1996, v. 59 (16), p. 1307-1321. ISSN: 0024-3205.

NAL Call no: 442.8 L62

Descriptors: sheep, opioids, distribution.

Pawde, A.M.; Telang, A.G.; Tandon, S.K., (1996), **Safety assessment of ketorolac trimethamine in sheep.** *Indian Veterinary Journal*. 1996, v. 73 (8), p. 896-899. ISSN: 0019-6479.

NAL Call no: 41.8 IN2

Descriptors: sheep, ketorolac, safety.

Rose, George; Xu, Zemin; Tong, Chuanyao; Eisenach, James C., (1996), **Spinal neostigmine diminishes, but does not abolish, hypotension from spinal bupivacaine in sheep.** *Anesthesia and Analgesia*. 1996, v. 83 (5), p. 1041-1045. ISSN: 0003-2999.

Descriptors: sheep, neostigmine, bupivacaine, spinal.

Rushen, J.; Congdon, P., (1987), **Electro-immobilisation of sheep may not reduce the aversiveness of a painful treatment.** *Veterinary Record*. London: British Veterinary Association. Jan. 10, 1987, v. 120 (2), p. 37-38. Ref. ISSN: 0042-4900.

NAL Call no: 41.8 V641

Descriptors: sheep, immobilization, electrical treatment, pain.

Santos, Alan C.; Arthur, G. Richard; Lehning, Ellen J.; Finster, Mieczyslaw, (1997), **Comparative pharmacokinetics of ropivacaine and bupivacaine in nonpregnant and pregnant ewes.** *Anesthesia and Analgesia*. 1997, v. 85 (1), p. 87-93. ISSN: 0003-2999.

Descriptors: sheep, ropivacaine, bupivacaine, comparison.

Scott, P.R.; Gessert, M.E. (1997), **Evaluation of extradural xylazine injection for Caesarian operation in ovine dystocia cases.** *Veterinary Journal*. London: Balliere Tindall. c1997-Jul. 1997, v. 154 (1), p. 63-67. ISSN: 1090-0233. Ref.

NAL Call no: SF601.V484

Descriptors: ewes, dystocia, xylazine, anesthesia, analgesia.

Scott, P. (1996), **Caudal analgesia in sheep.** *In Practice*. London: British Veterinary Association. 1979-Sept. 1996, v. 18 (8), p. 383-384. ISSN: 0263-841X. Ref.

NAL Call no: SF601.I4

Descriptors: sheep, analgesics, injection, dosage, drug therapy, reproductive disorders.

Scott, P.; Sargison, N.D.; Penny, C.D.; Strachan, W.D., (1995), **The use of combined xylazine and lignocaine**

epidural injection in ewes with vaginal or uterine prolapses. *Theirogenology*. New York, N.Y.: Elsevier Science Inc. May 1995, v. 43 (7), p. 1175-1178. Ref. ISSN: 0093-691X.

NAL Call no: QP251.A1T5

Descriptors: ewes, conduction anesthesia, xylazine, lignocaine.

Scott, P.R.; Gessert, M.E., (1997), **Management of post-partum cervical uterine or rectal prolapses in ewes using caudal epidural xylazine and lignocaine injection.** *Veterinary Journal*. 1997, v. 153 (1), p. 115-116. ISSN: 1090-0233.

NAL Call no: SF601.V484

Descriptors: sheep, ewes, xylazine, lignocaine, post-partum.

Swenson, Jeffrey D.; Wisniewski, Mark; McJames, Scott; Ashburn, Michael A.; Pace, Nathan L., (1996), **The effect of prior dural puncture on cisternal cerebrospinal fluid morphine concentrations in sheep after administration of lumbar epidural morphine.** *Anesthesia and Analgesia*. 1996, v. 83 (3), p. 523-525. ISSN: 0003-2999.

Descriptors: sheep, morphine, concentrations.

Swenson, Jeffrey D.; Lee, Tsung Hsing; McJames, Scott, (1998), **The effect of prior dural puncture on cerebrospinal fluid sufentanil concentrations in sheep after the administration of epidural sufentanil.** *Anesthesia and Analgesia*. Apr.1998, v. 86 (4), p. 794-796. ISSN: 0003-2999.

Descriptors: sufentanil, sheep, concentrations, dural puncture.

Taylor, P.M., (1991), **Anaesthesia in sheep and goats.** *In Practice*. London: British Veterinary Association. Jan. 1991, v. 13 (1), p. 31-36. Ref. ISSN: 0263-841X.

NAL Call no: SF601.I4

Descriptors: anesthesia, sheep, goats, analgesics.

Vesel, N.; Oloumi, M.M., (1998), **A preliminary comparison of epidural lidocaine and xylazine during total intravenous anaesthesia in Iranian fat-tailed sheep.** *Journal of Veterinary Medicine Series A*. Sept. 1998, v. 45 (6-7), p. 353-360. ISSN: 0931-184X.

NAL Call no: 41.8 Z5

Descriptors: comparison, lidocaine, xylazine, intravenous anaesthesia, sheep.

Wagne, Ann E.; Dunlop, Colin I.; Turner, A. Simon, (1996), **Experiences with morphine injected into the subarachnoid space in sheep.** *Veterinary Surgery*. 1996, v. 25 (3), p. 256-260. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: sheep, morphine, subarachnoid space.

Waterman, A.E.; Livingston, A.; Amin, A., (1991), **Further studies in the antinociceptive activity and respiratory effects of buprenorphine in sheep.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford: Blackwell Scientific Publications. Sept. 1991, v. 14 (3), p. 230-234. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: sheep, analgesics, dosage, drug effects.

Waterman, A.E.; Livingston, A.; Amin, A., (1991), **Analgesic activity and respiratory effects of butorphanol in sheep.** *Research in Veterinary Science*. London: British Veterinary Association. Jul. 1991, v. 51 (1), p. 19-23. Ref. ISSN: 0034-5288.

NAL Call no: 41.8 R312

Descriptors: sheep, analgesics, dosage, pain.

Zheng, Da; Upton, Richard N.; Martinez, Allison M.; Grant, Cliff; Ludbrook, Guy L., (1998), **The influence of the bolus injection rate of propofol on its cardiovascular effects and peak blood concentrations in sheep.** *Anesthesia and Analgesia*. May, 1998, v. 86 (5), p. 1109-1115. ISSN: 0003-2999.

Descriptors: sheep, propofol, effects, rate of injection.

Return to: [Title Page](#) / [Table of Contents](#)

Swine

Artwhol, J.E.; Henne, Bruns D.; Carter, E.; Cera, L.M., (1988), **Acetaminophen toxicosis: A potential model for acute liver failure in swine.** *Veterinary and Human Toxicology*. Manhattan, KS: American Academy of Veterinary and Comparative Toxicology. Aug. 1988, v. 30 (4), p. 324-328. Ref. ISSN: 0145-6296.

NAL Call no: SF610.A47

Descriptors: pigs, analgesics, poisoning, liver function.

Boschert, K.; Flecknell, P.A.; Fosse, R.T.; Framstad, T.; Ganter, M.; Sjostrand, U.; Stevens, J.; Thurmon, J., (1996), **Ketamine and its uses in the pig. Recommendations of the Consensus Meeting on Ketamine Anaesthesia in Pigs, Bergen 1994.** *Laboratory Animals*. London: Royal Society of Medicine Press Ltd. Jul. 1996, v. 30 (3), p. 209-219. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: pigs, ketamine, anesthesia, surgery.

Bowden, H.C.; Sharman, D.F.; Stephens, D.B., (1987), **Effects of anti-inflammatory analgesic drugs and muscarinic receptor blocking agents on appetite in the pig.** *Journal of Veterinary Pharmacology and Therapeutics*. Oxford; Blackwell Scientific Publications. Sept. 1987, v. 10 (3), p. 269-272. Ref. ISSN: 0140-7783.

NAL Call no: SF915.J63

Descriptors: pigs, appetite, analgesics, anti-inflammatory agents.

Brown, C.J.; Moss, R.; Pearson, I.; Tighs, D., (1996), **Long term anaesthesia using propofol and alfentanil or methohexitone sodium and alfentanil for a model of septic shock in the pig.** *Animal Technology*. Journal of the Institute of Animal Technology. Sussex. Dec. 1996, v. 47 (3), p. 141-146. ISSN: 0264-4754.

NAL Call no: QL55.I5

Descriptors: pigs, sepsis, anesthesia, efficacy, propofol.

Dantzer, R.; Bluthe, R.M.; Tazi, A., (1986), **Stress induced analgesia in pigs.** *Ann. Rech. Vet. Ann. Vet. Res. Paris: Un Periodique de L'institut national de la recherche agronomique*, v. 17 (2), p. 147-151. Ref. ISSN: 0003-4193.

NAL Call no: SF602.A5

Descriptors: pigs, stress, analgesics, pain.

Gomez de Segura, I.A.; Tendillo, F.J.; Mascias, A.; Santos, M.; Castillo, Olivares, (1997), **Actions of xylazine in young swine.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Jan. 1997, v. 58 (1), p. 99-102. ISSN: 0002-9645.

NAL Call no: 41.8 Am3A

Descriptors: pigs, xylazine, dosage effects, sedation, analgesia.

Ko, J.C.H.; Williams, B.L.; Rogers, E.R.; Pablo, L.S.; McCaine, W.C.; McGrath, C.J., (1995), **Increasing xylazine dose-enhanced anesthetic properties of telazol-xylazine combination in swine.** *Laboratory Animal Science*. Cordova, TN: Association for Laboratory Animal Science. Jun. 1995, v. 45 (3), p. 290-294. ISSN: 0023-6764.

NAL Call no: 410.9 P94

Descriptors: pigs, anaesthesia, xylazine, dosage effects, ketamine.

Ko, J.C.H.; Williams, B.L.; Smith, V.L.; McGrath, C.J.; Jacobson, J.D., (1993), **Comparison of telazol, telazol-ketamine, telazol-xylazine, and telazol-ketamine-xylazine as chemical restraint and anesthetic induction combination in swine.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Oct. 1993, v. 43 (5), p. 476-480. ISSN: 0023-6764.

NAL Call no: 410.9 P94

Descriptors: pigs, anesthesia.

Loscher, W.; Ganter, M.; Fassbender, C.P., (1990), **Correlation between drug and metabolite concentrations in plasma and anesthetic action of ketamine in swine.** *American Journal of Veterinary Research*. Schaumburg, IL: American Veterinary Medical Association. Mar. 1990, v. 51 (3), p. 391-398. Ref. ISSN: 0002-9645.

NAL Call no: 41.8 AM3A

Descriptors: pigs, ketamine, anesthesia, administration.

Short, C.E., (1986), **Preanesthetic medications in ruminants and swine.** *Veterinary Clinics of North America Food Animal Practice*. Philadelphia, PA: W.B. Saunders Company. Nov. 1986, v. 2 (3), p. 553-566. Ref. ISSN: 0749-0720.

NAL Call no: SF601.V535

Descriptors: pigs, ruminants, analgesics, drugs, neuroleptics.

Skarda, R.T., (1986), **Techniques of local analgesia in ruminants and swine.** *Veterinary Clinics of North America Food Animal Practice*. Philadelphia, PA: W.B. Saunders Company. Nov. 1986, v. 2 (3), p. 621-663. Ill. ISSN: 0749-0720.

NAL Call no: SF601.V535

Descriptors: pigs, ruminants, analgesics, anesthesia, injections.

Softeland, E.; Framstad, T.; Thorsen, T.; Holmsen, H., (1995), **Evaluation of thiopentone-midazolam-fentanyl anaesthesia in pigs.** *Laboratory Animals*. London: Royal Society of Medicine Press Ltd. Jul. 1995, v. 29 (3), p. 269-275. ISSN: 0023-6772.

NAL Call no: QL55.A1L3

Descriptors: pigs, thiopental, fentanyl, anesthesia, analgesia.

Swindle, Michael M., (1998), *Surgery, anesthesia, and experimental techniques in swine*. Iowa State Press. Ames, IA, 329 p. ISBN: 081381829X.

NAL Call no: RD29.5 S94S944 1998

Descriptors: surgery, experiments, swine, anesthesia.

Swindle, M.M., (1990), **Anesthesia and analgesia in swine.** *Anesthesia and analgesia in laboratory animals proceedings, 1990 Forum*. American College of Laboratory Animal Medicine, Columbia, MD. May 3-6, 1990, p. 79-87. Ref.

NAL Call no: SF914.A53 1990

Descriptors: miniature pigs, anesthesia, analgesia.

Tendillo, F.J.; Mascias, A.; Santos, M.; Segura, I.A.G.; San Roman, F.; Castillo-Olivares, J.L., (1996), **Cardiopulmonary and analgesic effects of xylazine, detomidine, medetomidine, and the antagonist atipamezole in isoflurane-anesthetized swine.** *Laboratory Animal Science*. Cordova, TN: American Association for Laboratory Animal Science. Apr. 1996, v. 46 (2), p. 215-219. Ref. ISSN: 0023-6764.

NAL Call no: 410.9 P94 Descriptors: pigs, xylazine, detomidine, medetomidine, antagonists, drug effects

Tendillo, F.J.; Pera, A.M.; Mascias, A.; Santos, M.; Gomez de Segura, L.A.; San Roman, F.; Castillo-Olivares, J.L., (1995), **Cardiopulmonary and analgesic effects of epidural lidocaine, alfentanil, and xylazine in pigs anesthetized with isoflurane.** *Veterinary Surgery*. Philadelphia, PA.: W. B. Saunders Company. Jan./Feb. 1995, v. 24 (1), p. 73-77. ISSN: 0161-3499.

NAL Call no: SF911.V43

Descriptors: pigs, lidocaine, xylazine, opioids, inhaled anesthetics, analgesia.

Thurmon, J.C.; Benson, G.J.; Tranquilli, W.J.; Olson, W.A.; Tracy, C.H., (1988), **The anesthetic and analgesic effects of telazol and xylazine in pigs: Evaluating clinical trials.** *Veterinary Medicine*. Lenexa, KS: Veterinary Medicine Publishing Company. Aug. 1988, v. 83 (8), p. 841-845. Ref. ISSN: 8750-7943.

NAL Call no: 41.8 M69

Descriptors: pigs, anesthesia, xylazine, analgesia, drug combinations.

Go to: [Title Page](#) / [Table of Contents](#)

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