

REFERENCES

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Althaus, J.S.; Difazio, C.A.; Moscicki, J.C.; Von, Voigtlander P.F.

(1988):

Enhancement of anesthetic effect of halothane by spiradoline, a selective k-agonist. *Anesth Analg* 67: 823.

Angel, A. (1977):

Processing of sensory information

Prog. Neurobiol 9:1.

Angel, A.; Grotton, D.A. (1982):

The effect of anesthetic agents on cerebral Cortical responses in the rat.

Br. J. Pharmacol 76: 541.

Arndt, J.O.; Freye, E. (1979):

Perfusion of naloxone through the fourth cerebral ventricle reverses the ciculatory and hypnotic effect of halothane in dogs.

Anesthesiology 51: 58.

Armitage, P. (1993):

Sequetial medical trial 2nd Ed Black well scientific publications, Oxford P 1-16 .

Berg-Johnsen, J.; Langmoen, I.A. (1986):

Isoflurane effects in rat hippocampal cortex: a quantitative evaluation of different cellular sites of action. *Acta Physiol scand* 128: 613.

Bernard, J.M.; Wouters, P.F.; Doursot, M.F. et al., (1994):

Effects of sevoflurane and isoflurane on cardiac and coronary dynamics in chronically instrumented dogs. *Anesthesiology* 1990; 72: 659: 62.

Bito, H.; Ikedak, (1994):

Long duration, low flow sevoflurane anesthesia using carbon dioxide absorbents: quantification of degradation products in the circuit. *Anesthesiology* 81: 340-5.

Bloor, B.C.; Flacke, W.E. (1982):

Eduction in halothane anesthetic requirement by colonidine, an alpha adrenergic agonist. *Anesth Analg* 61: 71.1.

Bosnjak, Z.J.; Seagad, J.L.; W.U.A. et al., (1982):

The effects of halothane on sympathetic ganglionic transmission. *Anesthesiology* 57: 473.

Cheng, S.C.; Brunner, E.A. (1985):

Inducing anesthesia with Agaba ANALOG, thip.
Anesthesiolog 63: 147.

Christ, D.D.; enna, J.G.; Kammerer, W et al. (1988):

Enflurane metabolism prodcess covalently bound liver
adducts recognized by antibodies from patient with
halothane hepatitis.

Anesthesiology 1988; 69; 833-8.

Conzen, P.F.; Vollmar, B.; Habazettl, H. et al. (1992):

. Systemic and regional hemodynamics of isoflurane and
sevoflurane in rats anesth. Analg. 1992: 74: 79-88.

Cook, T.L.; Beppit, W.J.; Hitt, B.A. et al.,(1992):

Acomparison of renal efects and metabolism of
sevoflurane and methoxy flurane in enzyme induced rats.
Anesth. Analg. 1992; 75: 136-40.

Cook, T.L.; Beppu, W.J.; Hitt, B.A. et al. (1993):

Renal effects and metabolism of sevoflurane in fischer
344 rats in vivo and in vitro in comparison with methoxy
flurane.

Anesthsiology 1993; 43: 1260-71.



Dedrick, D.F.; Scheerer, Y.D.; Biebuyck, J.F.; (1975):

Use of a rapid brain sampling technique in a physiologic preparation: effects of morphine, ketamine, and halothane on tissue energy intermediates. *Anesthesiology* 42: 651.

Dejong, R.H.; Nace, R.A. (1967):

Nerve impulse conduction and cutaneous receptor responses during general anesthesia. *Anesthesiology* 28: 851.

Dejongs, R.H.; Robles, R.; Corbin, R.W. et al., (1968):

Effect of inhalation anesthetics on monosynaptic and polysynaptic transmission in the spinal cord. *J. Pharmacol Exp. Ther* 162: 326.

Doi, M.; Yunoki, H. and Ikeda, K. (1988):

The minimum alveolar concentration of sevoflurane in cats. *J. Anesth.*, 2: 113-114.

Ebert, T.J.; Muzi, M.; Lopatka, C.W. (1995):

The neurocirculatory responses to sevoflurane anesthesia in humans. A comparison to desflurane *Anesthesiology*; 83: 88-95.



Egar, et al. II.(1974):

Uptake and action of inhalational anesthetic.

Baltimore, Williams and Wilkins (1974).

Eger, et al. (1981):

Isoflurane: a review

Anesthesiology. 55: 559-76.

Felman, S.A.; Paton, W.; Scurr, C. (1993):

Mechanism of drugs in anesthesia London, Edward,
Arnold 1993.

Finck, A.D.; Ngai, S.H.; Berkowitz, B.A. (1977):

Antagonism of general anesthesia 46: 241.

Franks, B.P.; Lieb, W.R. (1978):

Where do general anesthetics act?

Nature 247: 339.

Franks, B.P.; Lieb, W.R. (1988):

Volatile general anesthetics activated a novel neuronal K⁺
current. Nature 333: 662.

Franks, N.P.; Lieb, W.R. (1994):

Molecular and cellular mechanisms of general
anesthesia.

Nature 367: 607-614.

Frink, E.L.; J.R.; Ghantous, H.; Malan, T.P. et al. (1992):

Plasma inorganic fluoride with sevoflurane anesthesia:
correlation with indices of hepatic and renal function.
Anesth. Analg. 1992; 74:231-5.

Frink, E.J.; J.R.; Malan, P.M.; Isner, R.J. et al. (1994):

Renal concentrating function with prolonged sevoflurane
or enflurane anesthesia in volunteers.
Anesthesiology 1994; 80: 1019-25.

Frink, E.J.; Morgan, S.E.; Coetzee et al. (1993):

The effects of sevoflurane, Halothane, enflurane and
isoflurane on hepatic blood flow and oxygenation in
chronically instrumented greyhound dogs.
Anesthesiology 1992; 76: 85-90.

Fujiwara, N.; Higashi, H.; Nishi, S. et al., (1988):

Changes in spontaneous firing patterns of rat
hippocampal neurons by volatile anesthetics. J. Physiol
(Lond) 403: 155.

Gage, P.E.; Robertson, B. (1985):

Prolongation of inhibitory postsynaptic currents by
pentobarbitone, halothane and ketamine in CA1
pyramidal cell in rat hippocampus.
Br. J. Pharmacol 85: 675.

Ghantous, H.N.; Pernando, J.; Gandola, A.J.; Brendet, K. (1992):

Sevoflurane is biotransformed by guinea pig liver slices but causes minimal cytotoxicity.

Anesth. Analg. 75: 136-40.

Gibson, G.E.; Doj, T.E. (1981):

Impaired synthesis of acetylcholine by mild hypoxic hypoxia or nitrous oxide. J. Neurochem 36: 28.

Gonsowski, C.T.; Laster, M.J.; Eger, E.L. et al. (1994):

Toxicity of compound A in rats. Effect of a 3-hour administration.

Anesthesiology 1994; 80: 556-65.

Good Man and Gilman's (1990):

History and Principles of anesthesiology. In: the pharmacological basis of therapeutics (9th edition) New York, oxford, Frankfurt. Pergaman: 295- 6

Grawford, M.W.; Lerman, J.; Saldiviav, et al. (1992):

Hemodynamic and organ blood flow repsonses to halothane and sevoflurane anesthesia during spontaneous ventilation

Anesth. Analg. 75: 100-6.

Green, W.B.; Eckerson, M.L.; Depar, Brawn, B.R. (1994):

Covalent binding of oxidatine metabolites to hepatic protein not detectable after sevoflurane or desflurane anesthesia.

Anesthesiology 1994; 81: A 437.

Gregory, G.A.; Eger, E.I. II. Munson, E.S. (1969):

The relaitonship between age and halothane requirements in man. Anesthesiology 30: 488.

Gupta, S.; Heath, K.; Matta, B.F. (1997):

Effect of incremental doses of sevoflurane on cerebral presure autoregulation in humans.

Br. J. Anesth. 1997 oct; 79(4): 469-72.

Hall, R.I.; Murphy, M.R.; Hug, C.C. (1987):

The enflurane sparing effect of sufentanil in dogs.
Anesthesiology 67: 518.

Haloday , D.A.; Smith, F.R. (1991):

Clinical characteristics and biotransformation of sevoflurane in healthy human volunteers.

Anesthesiology 1995; 82: 1379-88.

Hansen T.D.; Waner, D.S.; Todd, M.M. et al. (1989):

Effect of nitrous and volatile anesthetic on cerebral blood flow.

Br. J. Anaesth 63: 290.

Heavner, J. (1975):

Jamming spinal sensory input:

Effects of anesthetic and analgesic drugs in the spinal cord dorsal horn.

Pain 1: 239.

Iyer-R.A.; Frink, E.J.; J.R.; Ebert, T.J. Anders, M.W. (1998):

Cysteine conjugate beta-Lyase –dependent metabolism of compound A (2- Fluoromethoxy). (1,1,3,3-pentafluoro-1-propene) in human subjects anesthetized with sevoflurane and in rats given compound A.

Anesthesiology 1998 Mar; 88 (3): 611-18.

James, R.M. (1990):

Desflurane and sevoflurane inhalational anaesthetics for this decade.

Br. J. Anesthesia 65: 727

Johnson, R.R.; Cromwell, T.H. and Eger, E.I.I.I. (1973):

The toxicity of fluroxene in animals and man.

Anesthesiology, 21: 512-517.



Johnston, R.R. Way, W.L.; Miller, R.D. (1974):

The effect of CNS catecholamine-depleting drugs on dextroamphetamine-induced elevation of halothane MAC.

Anesthesiology 41: 57.

Johnson, G.V.W.; Hartzell, C.R. (1985):

Choline uptake, acetylcholine synthesis and release, and halothane effects in synaptosomes.

Anesth analg 64: 395.

Kamatsu, T.; Shingu, K.; Tomemori, N. et al. (1981):

Nitrous oxide activates the supraspinal pain inhibition system. Acta Anesthesiol scand 25: 519.

Kamban, J.R. (1983):

Isoflurane and oxyhaemoglobin dissociation
anesthesiology 57: 496.

Karal, M.D.; Kharash, E.D.; Lannic, Sawchuk, R. (1995):

Clinical sevoflurane metabolism and disposition I.
Sevoflurane and metabolite pharmacokinetics
Anesthesiology 1995; 82: 1369-78.

Katoh, T. and Ikeda, . (1987):

The minimum alveolar concentration of sevoflurane in humans.

Anesthesiology. 66: 301-306.

Kazama, T. Ikeda (1988):

The comparative cardiovascular effects of sevoflurane with halothane and isoflurane.

J. Anesth (Japan) 2: 63-8.

Kharasch, E.D.; Thummel, K.E. (1993):

Identification of cytochrome P. 450-2 E1 as the predominant enzyme catalyzing human Liver microsomal defluorination of sevoflurane, isoflurane and methoxy flurane.

Anesthesiology 1993; 79: 795-807.

Kharasch, E.D.; Hankins, D.C.; Thummel, R.I. (1995):

Methoxyflurane and sevoflurane metabolism
anesthesiology 1995; 82: 689-99.

Knill, R.L. and Crement, J.L. (1982):

Variable effects of anesthetic on the ventilatory response to hypoxaemia in man can. Anaesth. Soc. J. 29: 93-98.

Kobayashi, Y.; Ochiai, R.; Takeda, J. et al. (1992):

Serum and urinary inorganic fluoride concentrations after prolonged sevofluane inhalation in humans.

Anesth. Analg. 74: 753-7.



Kurosawa, M.; Meguro, K.; Nagayama, I. et al., (1989):

Effects of sevoflurane on autonomic nerve activities
controlling cardiovascular functions in rats.

J. Anesth:L 1989: 3: 109-17.

Lamont, I.T.; Lselbacher, K.L. (1992):

Post operative Jaundice in: Millward sadler, G. Wright
R. Arthurn, M. eds, Wright's liver and biliary isease.
Pathophysiology, diagnosis andmanagement. 3rd ed.
London WB. Saunders 1992: 1372-80.

Larrabee, M.G.; Posternak, J.M. (1952):

Selective action of anesthetics on synapses and axons in
mammalian sympathetic ganglia.

J. Neurophysiol 15: 91.

Lerman, J.; Robinson, S.; Willis, M.M.; Gregory, G.A. (1983):

Anesthetic requirements for halothane in young children
0.1 monh and 1.6 months of age.

Anesthesiology 59: 421.

Lerman, J.; Sikich, N.; Kleinman, S. et al. (1994):

The pharmacology of sevoflurane in infants and
children.

Anesthesiology 50: 814-24.

Lind, R.C.; Ghantous, H.N.; Candolfi, A.J.; Brown, B.R. (1989):

Sevoflurane bio transformation and hepatotoxicity in guinea pig. Anesthesiology 1989; 71: a 310.

MacIver, M.B.; Roth, S.H. (1988):

Inhalation anaesthetics exhibit pathwayspecific and differential actions on hippocampal synapltic responses in vitro. Br. J. Anaesth 60: 680.

Manohar, M.; parks, C.M. (1984):

Porcive systemic and regional organ blood flow during 1.0 ad 1.5 MAC of sevoflurane anesthesia without on with 50% nitrous oxide.

Pharmacal, Exp. There 231: 640-8.

Maze, M.; Mason, D.M.; J.R.; Kates, R.E. (1983):

Verapamil decreases MAC for halothane in dogs. Anesthesiology 59: 327.

Miller, S.L. (1961):

A theory of gaseous anesthetics.

Sci. USA. 47: 1515.

Miller, K.W.; Paton, W.D.M.; Smith, E.B. (1967):

The anesthetic ressurees of certain flurorine. Containing gases. Br. J. Anaeth 39 : 910.



Miller, K.W.; Paton, W.D.M.; smith, R.A. et al. (1973):

The pressure reversal anesthesia and the critical volume hypothesis.

Mol pharmacol 9: 131.

Morgan and Mikhail (1996):

Inhalational anesthetic: In clinical anesthesiology (second edition). USA. Lange: 109-28.

Mori, K.; Shingu, K.; Mori, H.; Oshima, E.; Omatsu, Y and Ogawat. (1990):

Factors modifying anesthetic induced EEG activities
stoeckel, H. (ed):Quantitation, Modelling and control
anesthesia.

Stuttgart, New York, George thieme P 99-108.

Morio, M.; Fujii, K.; Satoh, N. et al. (1992):

Reaction of sevoflurane and its degradation products
with soda line. Toxicity of the by products.

Anesthesiology 77: 115-64.

Mullins, L.J. (1954):

Some physical mechanisms in narcosis.

Chem. Rev. 54: 289.

Munday, I.T.; Foden, N.D.; Ward, P.M. et al. (1994):

Sevoflurane degradation in acircdle system at two different fresh gas flow rates (abstract).

Anesthesiology 81: a 433.

Munsan, E.S.; Hoffman, J.C.; Eger, E.I. II (1984):

Use of cyclopropane to test the geneality of anesthetic requirement in the elderly.

Anesth Analg 63: 998.

Namiki, A.; Collins, J.G.; Kitahata, L.M. et al. (1980):

Effect of halothane on spinal neuronal responses to graded noxious heal stimulation in the cat.

Anesthesiology 53: 475.

Ngai, S.H.; Cheney D.L.; Finck, A.D. (1978):

Acetylcholine concentrations and turnover in rat brain structures during anesthesia with halothane, enflurance, and ketamine.

Anesthesiology 48: 4.

Nicoll, R.A. (1972):

The effects of anesthetics on synaptic excitation and inhibition in the olfactory bulb. J. Physiol (Lond) 223: 803.



Nicoll R.A.; Madison, D.V. (1982):

General anesthetics hyperpolarize neurons in the vertebrate central nervous system.

Science 217: 1055.

Nishina, K.; Mikawa, k.; Shiga, M.; Maekawa, N.; Obara, H. (1997):

Oral clonidine premedication reduces minimum alveolar concentration of sevoflurane for tracheal intubation in children.

Anesthesiology. Dec.; 87 (6): 1324-7

Noel Cass and Linda Cass (1990):

Inhalational anesthetics

Pharmacology for anesthetists 89-90.

Park, K.W.; Dai, H.B.; Lawenstin, E.; Sellke, F.W. (1998):

Epithelial dependance of the bronchodilatory effect sevoflurane and desflurane in rats distal branch.

Anesth, Analg. Mar, 86(3): 649-151.

Pauling, L. (1961):

A molecualr theory of general anesthetic

134: 15.

Regan, M.J.; Eger, E.I. II. (1967):

Effect of hypothermia in dogs on anethetizing and apneic doses of inhalation agent anesthesiology 28:689.

Richards, C.D. (1973):

On the mechanisms of halothane anesthesia.
J. Physiol (Lond) 233: 439.

Richards, C.D. (1980):

In search of the mechanisms of anesthesia.
Trends neurosci 3: 9.

Richards, C.D. (1983):

Action of general anesthetics on synap tran.
Smission in the CNS. Br. J. Anaesth 55: 201.

Roizen, M.F.; Kopin, I.J.; Palkovits, M. et al. (1975):

The effect of two diverse inhalation anesthetic agents on serotonin in discrete regions of the rat brain. Exp. Brain Res 24: 203.

Roizen, M.F.; Kopin, K.J.; Thoa, N.B. et al. (1976):

The effect of two anesthetic agents on norepinephrine and dopamine in discrete brain nuclei, fiber tracts, terminal regions of the rat.
Brain Res 110: 515.



Roizen, M.F.; White, P.F.; Eger, E.I.; Brownstein, M. (1978):

Effects of ablation of serotonin or norepinephrine
brainstem areas on halothane and cyclopropane.

MACS in rats. *Anesthesiology* 49: 252.

Scheller, M.S.; Partridge, B.R. and Saidman L.J. (1988):

MAC of sevoflurane in humans and the new Zealand
white rabbits. *Can. Anaesth. Soc. J.*, 35: 153-16.

Segal, I.S.; Irwin, I.; Maze, M. (1988):

Modulating role of dopamine on anesthetic
requirements. *Anesthesiology* 69A : 640.

Shichinohe, Y.; Masuda , Y.; Takahashi, H. et al. (1992):

A case of post operative hepatic injury after sevoflurane
anesthesia.

Masui 1992; 41: 1802-5.

Shimoji, K.; Fujioka, H.; Fukazawa, T. et al. (1984):

Anesthetics and excitatory inhibitory responses of
midbrain reticular neurons. *Anesthesiology*. 61: 151.

Smith, W.D.A. (1982):

Under the influence: A history of Nitrous Oxide and
Oxygen anesthesia. Macmillan/ WLM.



Stone, D.J.; Difazio, C.A. (1988):

Anesthetic Action

Strang, L.B. (1977):

Growth and development of the lung: fetal and Post-natal, Annu. Rev. Physiol. 39: 253.

Strumd, Johnson, B.; Eger, E.L. (1987):

Stability of sevoflurane ins oda lime anesthesiology
1987; 67: 779-81.

Strun, D.P.; Johnson, B.H. and Eger, E.L. (1987):

Stability of sevoflurane in sodalime.
Anaesthesiology, 67: 799-781.

Tanifuji, Y.; Nezu, T.; Kobayashi, K.; Eger, E.I. (1980):

Effect of brain calcium and magnesium on anesthetic
requirement (MAC) in dogs. J. Pn. J. Anesthesiol 29:
741.

Tanifuji, Y.; Eger, E.I.; II (1978):

Brain sodium, Potassium and osmolarity:
Effects on anesthetic requirement.
Anesth. Analg. 57: 404.



Thompson, E.B. and Golysh, F.T. (1973):

Quantitative assessment of anesthetic induced cardiac sensitization to epinephrine.

Anesth. Analg. 52: 800-806.

Thompson, S.W.; Moscicki, J.C.; Difazio, C.A. (1988):

The anesthetic contribution of magnesium sulfate and ritodrine hydrochloride in rats. Anesth Analg. 67: 31.

Thurbeck, W.M. (1977):

Structure of the lungs. In Widdicombe, J.G., editor: International review of physiology.

Respiratory physiology II, Baltimore, University Park Press, Vol. 14.

Trag, A.G.; Yasuda, N.; Eger, E.L.; Huang, G.; Vernice, G.;

Terrel, R.C. and Koblin (1989):

Anesth. Analg. 68: 599-608.

Vickery, R.G.; Sheridan, B.C.; Segal, I.S.; Maze, M. (1988):

Anesthetic and hemodynamic effects of the stereoisomers of medetomidine, an α_2 -adrenergic agonist, in halothane-anesthetized dogs.

Anesth. Analg. 67: 611.

Vitcha, J.F. (1971):

A history of forane.

Anaesthesiology, 35: 4-7.

Wallin, R.F. and Napoli, M.D. (1971):

Sevoflurane (fluroromethyl 1,1,1,3,3,3 hexafluoro 2 propyl ether) a new inhalational anesthetic agent.

Fedrration preceding, 30: 442.

Wann, K.T.; MacDonald, A.B. (1987):

Actions and interactions of high pressure and general anesthetics. Prog Neurobiol 30: 271.

Weibel, E.R. and Gomez, O.M. (1962):

Architecture of the human lung, science 137: 577.

Weibel, E.R. (1973):

Morphological basis of alveolar. Capillary gas. Xchange, Physiol. Rev. 53: 419.

Yunoki, H. and Ikeda, K. (1988):

Comparison of MAC and the rate of rise of alveolar concentration of sevoflurane with halothane and isoflurane in dogs.

Anesthesiology, 68: 435-437.