

References

1. Sari A, Fukuda Y, Sakabe T, et al: Effects of psychotropic drugs on canine cerebral metabolism and circulation related to EEG-diazepam, clomipramine, and chlorpromazine. *J Neurol Neurosurg Psychiatr* 38:838-844, 1975
2. Kety SS, Schmidt CF: The nitrous oxide method for the quantitative determination of cerebral blood flow in man: Theory, procedure and normal values. *J Clin Invest* 27:476-483, 1948
3. Norberg K, Siesjö BK: Quantitative measurement of blood flow and oxygen consumption in the rat brain. *Acta Physiol Scand* 91:154-164, 1974
4. Fabel H, Lübbers DW: Eine schnelle Mikromethode zur serienmässigen Bestimmung der O₂-Konzentration im Blut. *Pfluegers Arch* 281:32-33, 1964
5. Borgström L, Hägerdal M, Lewis L, et al: Polarographic determination of total oxygen content in small blood samples. *Scand J Clin Lab Invest* 34:375-389, 1974
6. Nilsson B, Siesjö BK: A method for determining blood flow and oxygen consumption in the rat brain. *Acta Physiol Scand* 96:72-82, 1976
7. Alexander SC, Smith TC, Strobel G, et al: Cerebral carbohydrate metabolism of man during respiratory and metabolic alkalosis. *J Appl Physiol* 24:66-72, 1968
8. Wollman H, Alexander SC, Cohen PJ, et al: Cerebral circulation during general anesthesia and hyperventilation in man. *ANESTHESIOLOGY* 26:329-334, 1965
9. Smith AL, Neigh JL, Hoffman JC, et al: Effects of general anesthesia on autoregulation of cerebral blood flow in man. *J Appl Physiol* 29:665-669, 1970
10. Theye RA, Michenfelder JD: The effect of nitrous oxide on canine cerebral metabolism. *ANESTHESIOLOGY* 29:1119-1124, 1968
11. Carlsson C, Hägerdal M, Siesjö BK: The effect of nitrous oxide on oxygen consumption and blood flow in the cerebral cortex of the rat. *Acta Anaesthesiol Scand* 20:91-95, 1976
12. Carlsson C, Hägerdal M, Siesjö BK: Increase in cerebral oxygen uptake and blood flow in immobilization stress. *Acta Physiol Scand* 95:206-208, 1975
13. Carlsson C, Hägerdal M, Kaasik AE, et al: A catecholamine-mediated increase in cerebral oxygen uptake during immobilization stress in rats. *Brain Res* (in press, 1976)
14. Sensenbach W, Madison L, Ochs L: A comparison of the effects of 1-norepinephrine, synthetic 1-epinephrine, and U.S.P. epinephrine upon cerebral blood flow and metabolism in man. *J Clin Invest* 32:226-232, 1953
15. King BD, Sokoloff L, Wechsler RL: The effects of 1-epinephrine and norepinephrine upon cerebral circulation and metabolism in man. *J Clin Invest* 31:273-279, 1952
16. Nilsson L, Siesjö BK: The effect of phenobarbitone anaesthesia on blood flow and oxygen consumption in the rat brain. *Acta Anaesthesiol Scand suppl* 57:18-24, 1975
17. Sokoloff L: Cerebral circulation and behavior in man: Strategy and findings. *Psychochemical Research in Man*. Edited by Mandell AJ, Mandell MP. New York, Academic Press, 1969, pp 237-252
18. Sokoloff L: Circulation and energy metabolism of the brain. *Basic Neurochemistry*. Edited by Albers RW, Siegel GJ, Katzman R, et al. Boston, Little, Brown and Company, 1972, pp 299-325
19. Dawson B, Michenfelder JD, Theye RA: Effects of ketamine on canine cerebral blood flow and metabolism: Modification by prior administration of thiopental. *Anesth Analg (Cleve)* 50:433-447, 1971
20. Takeshita H, Okuda Y, Sari A: The effects of ketamine on cerebral circulation and metabolism in man. *ANESTHESIOLOGY* 36:69-75, 1972
21. Smith AL, Wollman H: Cerebral blood flow and metabolism: Effects of anesthetic drugs and techniques. *ANESTHESIOLOGY* 36:378-400, 1972

Airway Management

TRACHEAL OBSTRUCTION AND THE LASER A 38-year-old woman had severe tracheal obstruction secondary to tumor. The authors report the use of a surgical laser following induction of general anesthesia and insertion of an 8 mm x 40 cm ventilating bronchoscope. The tumor was partially vaporized and partially carbonized by the laser. At the termination of the operation respiratory difficulty was completely relieved. The authors conclude that this technique may be

useful for the palliation of inoperable tumors producing significant tracheal obstruction. (Laforet EG, Berger RL, Vaughan CW: *Carcinoma obstructing the trachea: Treatment by laser radiation*. *N Engl J Med* 294: 941-943, 1976.) **ABTRACTER'S COMMENT:** I regret that the authors did not comment at all upon the anesthetic technique used in this extremely difficult case of airway management.

Downloaded from http://ajph.gapub.org/ by guest on October 2, 2012