

## REFERENCES

- Aldrete, J.A. (1995):** The post-anaesthesia recovery score revisited (Letter). *J Clin Anaesth*; 7: 89-91.
- Alkire, M.T. (1998):** Quantitative EEG correlations with brain glucose metabolic rate during anaesthesia in volunteers. *Anaesthesiology*; 89:323-33.
- Andrzejowski, J.; Sleigh, J.W.; Johnson, I.A. and Sikiotis, L. (2000):** The effect of intravenous epinephrine on the bispectral index and sedation. *Anaesthesia*; 55:761-763.
- Angel, A. (1991):** The G.L. Brown lecture: Adventures in anaesthesia. *Exp Physiol*; 76: 1-38.
- Angel, A. (1993):** Central neuronal pathways and the process of anaesthesia. *British Journal of Anaesthesia*; 71: 148-163.
- Antognini, J.F.; Jinks, S.L.; Atherley, R.J.; Clayton, C. and Carstens, E.E. (2003):** Spinal anaesthesia indirectly depresses cortical activity associated with electrical stimulation of the reticular formation. *British Journal of Anaesthesia*; 91:233-8.
- Antognini, J.F.; Jinks, S.L.; Carstens, E.S. and Atherley, R.J. (2004):** Preserved reticular neuronal activity during selective delivery of supraclinical isoflurane concentrations to brain in goats and its association with spontaneous movement. *Neurosci Lett*; 361: 94-7.
- ASA (2006):** Practice advisory for intraoperative awareness and brain function monitoring. *Anaesthesiology*; 104: 847-864.

- Avidan, M.S.; Zhang, L.; Burnside, B.A.; Finkel, K.J.; et al., (2008):** Anaesthesia awareness and the bispectral index. *N Engl J Med*; 358:1097-108.
- Barr ,G.; Jakobsson,J.G.; Owall,A. and Anderson, R.E.(1999):** Nitrous oxide does not alter bispectral index: Study with nitrous oxide as sole agent and as an adjunct to i.v. anaesthesia. *British Journal of Anaesthesia*; 82:827-830.
- Bergman, I.J.; Kluger, M.T. and Short, T.G. (2002):** Awareness during general anaesthesia: a review of 81 cases from the Anaesthetic Incident Monitoring Study. *Anaesthesia*; 57: 549-56.
- Berkenbosch, J.W.; Fichter, C.R. and Tobias, J.D. (2002):** The correlation of the bispectral index monitor with clinical sedation scores during mechanical ventilation in the pediatric intensive care unit. *Anaesth Analg.*; 94:506-11.
- Bhardwaj, N. and Yaddanapudi, S.(2010):** A randomized trial of propofol consumption and recovery profile with BIS-guided anaesthesia compared to standard practice in children. *Paediatr Anaesth*; 20(2): 160-7.
- Borges, M. and Antognini, J. F. (1994):** Does the brain influence somatic responses to noxious stimuli during isoflurane anaesthesia? . *Anaesthesiology*; 81: 1511-5.
- Brocas, E.; Dupont, H.; Paugam-Burtz, C.; Servin, F.; Mantz, J. and Desmots, J.M. (2002):** Bispectral index variations during tracheal suction in mechanically ventilated critically ill

patients: effect of an alfentanil bolus. Intensive Care Med.;28:211-3.

**Bruhn, J.; Bouillon, T.W. and Shafer, S.L.(2000):** Bispectral index (BIS) and burst suppression: Revealing part of the BIS algorithm. J Clin Monit; 16 : 593 -596.

**Bruhn, J.; Bouillon ,T.W.; Radulescu, L.; et al.,(2003):** Correlation of approximate entropy, bispectral index, and spectral edge frequency 95 (SEF95) with clinical signs of “anaesthetic depth” during coadministration of propofol and remifentanil. Anaesthesiology; 98:621-627.

**Campagna, J.A.; Miller, K.W. and Forman, S.A. (2003):** Mechanisms of actions of inhaled anaesthetics. N Engl J Med; 348: 2110-24.

**Chen, X.; Tang, J.; White, P.F.; Wender, R.H.; et al., (2002):** A comparison of patient state index and bispectral index values during the perioperative period. Anaesth. Analg; 95:1669-1674.

**Chernik, D.A.; Gillings, D.; Laine, H.; et al.,(1990):** Validity and reliability of the Observer's Assessment of Alertness/Sedation Scale: Study with intravenous midazolam. J Clin Psychopharmacol ; 10:244-251.

**Chortkoff, B.S; Gonsowski, C.T.; Bennett, H.L.; Levinson, B.; Crankshaw, D.P.; Dutton, R.C.; et al., (1995):** Subanaesthetic concentrations of desflurane and propofol suppress recall of emotionally charged information. Anaesth. Analg; 81: 728-36.

- Coste, C.; Guignard, B.; Menigaux, C. and Chauvin, M. (2000):** Nitrous oxide prevents movement during orotracheal intubation without affecting BIS value. *Anaesth. Analg* ; 91:130-135.
- Drover, D.R.; Lemmens, H.J.; Pierce, E.T.; Plourde, G.; Loyd, G.; et al., (2002):** Patients state index: titration of delivery and recovery from propofol, alfentanil, and nitrous oxide anaesthesia. *Anaesthesiology*; 97: 82-89.
- Eger, E.I. and Sonner, J.M. (2005):** How likely is awareness during anaesthesia?. *Anaesth. Analg*; 100:1544-1545 .
- Eger, E.III. ; Saidman, L.J. and Brandstater, B. (1965):** Minimum alveolar anaesthetic concentration: A standard of anaesthetic potency. *Anaesthesiology*; 26:756.
- Ekman, A.; Lindholm, M.L.; Lennmarken, C. and Sandin, R. (2004):** Reduction in the incidence of awareness using BIS monitoring. *Acta Anaesthesiologica Scandinavica* ; 48: 20-26.
- Ekman, A.; Stalberg, E.; Sundman, E.; et al., (2007):** The effect of neuromuscular block and noxious stimulation on hypnosis monitoring during sevoflurane anaesthesia. *Anaesth. Analg*; 105:688-695.
- Ellerkmann, R.K.; Kreuer, S.; Wilhelm, W.; et al., (2006):** Reduction in anaesthetic drug consumption is correlated with mean titrated intra-operative Bispectral Index values. *Acta Anaesthesiol Scand.* ; 50(10):1244-9.

**Ellerkmann, R.K.; Liermann, V.M.; Alves, T.M.; et al.,(2004):** Spectral entropy and bispectral index as measures of the electroencephalographic effects of sevoflurane. *Anaesthesiology*; 101 : 1275 - 1282.

**Ellerkmann, R.K.; Soehle, M.; Alves, T.M.; et al.,(2006):** Spectral entropy and bispectral index as measures of the electroencephalographic effects of propofol. *Anaesth. Analg* ; 102:1456-1462.

**Ellie, F.Z.(2006):** BIS monitoring migrates from OR to ICU. *Nursing Critical Care* ; 1(5) : 58-61.

**Fehr, S.B.; Zalunard, M.P.; Seifert, B.; Rentsch, K.M.; et al.,(2001):** Clonidine decrease propofol requirements during anaesthesia: effect on bispectral index. *Br J Anaesth*; 86:627-32.

**Flaishon, R.; Windsor, A.; Sigl, J. and Sebel, P.S.(1997):** Recovery of consciousness after thiopental or propofol: Bispectral index and the isolated forearm technique. *Anaesthesiology* ; 86:613-619.

**Forbes, A.R.; Cohen, N.H. and Eger II, E.I.(1979):** Pancuronium reduces halothane requirement in man. *Anaesth. Analg*; 58:497-499.

**Frenzel, D.; Greim, C.A.; Sommer, C.; Bauerle, K. and Roewer, N.(2002):** Is bispectral index appropriate for monitoring the sedation level of mechanically ventilated surgical ICU patients?. *Intensive Care Med*; 28:178-83.

**Gajraj, R.J.; Doi, M.; Mantzaridis, H. and Kenny, G.N.(1998):** Analysis of the EEG bispectrum, auditory evoked potentials and the EEG power spectrum during repeated transitions from consciousness to unconsciousness. *British Journal of Anaesthesia* ; 80:46-52.

**Gan, T.J.; Glass, P.S.; Windsor, A.; et al., (1997):** Bispectral index monitoring allows faster emergence and improved recovery from propofol, alfentanil and nitrous oxide anaesthesia. *Anaesthesiology*; 87: 808-815.

**Gelb, A.W.; Leslie, K.; Stanski, D.R. and Shafer, S.L.(2010):** Measuring Depth of Anaesthesia. chapter (31). *Miller's Anaesthesia* 7<sup>th</sup> edition.

**Ghoneim, M.M.; Block, R.I.; Haffarnan, M. and Mathews, M.J. (2009):** Awareness during anaesthesia: Risk factors, causes and sequelae: A review of reported cases in the literature. *Anaesth. Analg*; 108: 527-535.

**Ghoneim, M.M. and Weiskopf, R.B. (2000):** Awareness during anaesthesia; Clinical Concepts and commentary. *Anaesthesiology*; 92(2) :597.

**Ghoneim, M.M.(2001):** Awareness during anaesthesia. In: Ghoneim MM, ed. *Awareness during anaesthesia*. Oxford: Butterworth-Heinemann:1–22.

**Ghoneim, M.M.(2010):** The trauma of awareness: History, Clinical Features, Risk Factors, and Cost. *Anaesth. Analg* ;110(3) : 666-667.

- Gillespie, N.A. (1943):** The signs of anaesthesia. *Anaesth. Analg* ; 22 : 275-282.
- Glass, P.S.A.(1998):** Anaesthetic drug interactions : An insight into general anaesthesia its mechanisms and dosing strategies. *Anaesthesiology*; 88(1) : 5-6.
- Glass, P.S.A.; Gan, T.J.; Howell, S.; et al., (1997):** Drug interactions: Volatile anaesthetics and opiates. *J Clin Anaesth*; 9:18S.
- Greif, R.; Greenwald, S.; Schweitzer, E.; et al.,(2002):** Muscle relaxation does not alter hypnotic level during propofol anaesthesia. *Anaesth. Analg*; 94:604-608.
- Guedel, A.E. (1937):** Inhalational Anaesthesia: A Fundamental Guide, New York: Macmillan.
- Guignard, B.; Coste, C.; Menigaux, C. and Chauvin, M. (2001):** Reduced isoflurane consumption with bispectral index monitoring. *Acta Anaesthesiologica Scandinavica*;45(3): 308-314.
- Guignard, B.; Menigaux, C.; Dupont, X.; et al.,(2000):** The effect of remifentanyl on the bispectral index change and hemodynamic response after orotracheal intubation. *Anaesth Analg*; 90 : 161-167.
- Habib, A.S.; White, W.D.; Eubanks, S.; Pappas, T.N. and Gan, T.J.(2004):** A randomized comparison of a multimodal management strategy versus combination antiemetics for the

prevention of postoperative nausea and vomiting. *Anaesth Analg* ; 99:77-81.

**Haenggi, M.; Ypparila, H.; Hauser, K.; et al.,(2006):** The effects of dexmedetomidine/remifentanil and midazolam/remifentanil on auditory-evoked potentials and electroencephalogram at light-to-moderate sedation levels in healthy subjects. *Anaesth. Analg*; 103:1163-1169.

**Hans, P.; Brichant ,J.F.; Dewandre ,P.Y.; et al.,(1999):** Effects of two calculated plasma sufentanil concentrations on the hemodynamic and bispectral index responses to Mayfield head holder application. *J Neurosurg Anaesthesiol* ; 11:81-85.

**Hendrickx, J.F.A.; Eger II, E.I.; Sonner, J.M. and Shafer, S.L.(2008):** Is synergy the rule? A review of anaesthetic interactions producing hypnosis and immobility. *Anaesth. Analg*; 107:494-506.

**Hodgson, P.S. and Liu ,S.S.(2001):** Epidural lidocaine decreases sevoflurane requirement for adequate depth of anaesthesia as measured by the bispectral index monitor. *Anaesthesiology*; 94:799-803.

**Iselin-Chaves, I.A.; Flaishon, R.; Sebel, P.S.; et al.,(1998):** The effect of the interaction of propofol and alfentanil on recall, loss of consciousness, and the bispectral index. *Anaesth. Analg*; 87:949 - 955.

- Jameson, L.C. and Sloan, T.B. (2006):** Using EEG to monitor anaesthesia drug effects during surgery. *Journal of Clinical Monitoring and Computing*; 20:445-472.
- Jensen, E.W.; Litvan, H.; Revuelta, M.; et al.,(2006):** Cerebral state index during propofol anaesthesia: A comparison with the bispectral index and the A-line ARX index. *Anaesthesiology*; 105: 28-36.
- Johansen, J.W. and Sebel, P.S. (2000):** Development and clinical application of electroencephalographic bispectrum monitoring. *Anaesthesiology*; 93:1336-1334.
- Johansen, J.W.(2001):** Esmolol promotes electroencephalographic burst suppression during propofol/alfentanil anaesthesia. *Anaesth. Analg* ; 93:1526-1531.
- Johansen, J.W.(2006):** Update on Bispectral Index monitoring. *Best Practice & Research Clinical Anaesthesiology*; 20: 81-99.
- John, E.R. and Pritchep, L.S. (2005):** The anaesthetic cascade: A theory of how anaesthesia suppresses consciousness. *Anaesthesiology*; 102:447-471.
- Kaplan , L.J. and Bailey ,H.(2000):** Bispectral index (BIS) monitoring of ICU patients on continuous infusion of sedatives and paralytics reduces sedative drug utilization and cost. *Critical Care* ; 4(Suppl 1):P190.
- Karalapillai, D.; Leslie, K.; Umranikar, A. and Bjorksten, A.R.(2006):** Nitrous oxide and anaesthetic requirement for loss

of response to command during propofol anaesthesia. *Anaesth. Analg* ; 102:1088-1093.

**Katoh , T.; Bito, H. and Sato, S.(2000):** Influence of age on hypnotic requirement, bispectral index, and 95% spectral edge frequency associated with sedation by sevoflurane. *Anaesthesiology*; 92 : 55 - 61.

**Katoh, T.; Suzuki, A. and Ikeda, K.(1998):** Electroencephalographic derivatives as a tool for predicting the depth of sedation and anaesthesia induced by sevoflurane. *Anaesthesiology* ; 88:642-650.

**Kearse Jr, L.A.; Manberg, P.; Chamoun, N.; et al.,(1994):** Bispectral analysis of the electroencephalogram correlates with patient movement to skin incision during propofol/nitrous oxide anaesthesia. *Anaesthesiology* ; 81:1365-1370.

**Kearse, L.A.; Rosow, C.; Zaslavsky, A.; et al., (1998):** Bispectral analysis of the electroencephalogram predicts conscious processing of information during propofol sedation and hypnosis. *Anaesthesiology*; 88:25-34.

**Kelley, S.D.(2003):** Monitoring level of consciousness during anaesthesia and sedation. [www.aspectmedical.com](http://www.aspectmedical.com).

**Kerssens, C. ; Klein, J. and Bonke, B.(2003):** Awareness: monitoring versus remembering what happened. *Anaesthesiology*; 99 : 570-75.

- Kissin, I. (1993):** General anaesthetic action: An obsolete notion? [editorial]. *Anaesth. Analg*; 76:215-218.
- Kissin,I.(2000):** Depth of anaesthesia and bispectral index monitoring . *Anaesth .Analg* ; 90:1114-7.
- Kluger, M.T. (2001):** The bispectral index during an anaphylactic circulatory arrest. *Anaesth Intensive Care.*; 29:544-7.
- Koitabashi ,T.; Johansen, J.W. and Sebel, P.S.(2002):** Remifentanil dose/electroencephalogram bispectral response during combined propofol/regional anaesthesia. *Anaesth. Analg*; 94 : 1530-1533.
- Kotsovolis, G. and Komninos, G.(2009):** Awareness during anaesthesia: How sure can we be that the patient is sleeping indeed?. *Hippokratia*;13(2):83-89.
- Kreuer, S.; Biedler, A.; Larsen, R .; et al.,(2003):** Narcotrend monitoring allows faster emergence and a reduction of drug consumption in propofol - remifentanil anaesthesia. *Anaesthesiology*; 99 : 34 - 41.
- Kurata, J.(2010):** Deep Hypnosis as a Sign of “Imbalance” in Balanced Anaesthesia. *Anaesth .Analg* ; 110:663-665.
- Lennmarken, C.; Bildfors , K.; Enlund, G.; Samuelsson, P. and Sandin, R. (2002):** Victims of awareness. *Acta Anaesthesiol Scand*; 46:229-31.
- Lennmarken, C.; Ekman, A.; Sandin, R.; et al.,(2003):** Incidence of awareness using BIS-monitoring. *Anaesth. Analg*; 96:S133.

- Lennmarken, C.; Lindholm, M.J.; Greenwald, S.C.; et al., (2003):** Confirmation that low intraoperative BIS levels predict increased risk of postoperative mortality. *Anaesthesiology*; 99:A-303.
- Lerou, J.G.C. (2004):** Nomogram to estimate age-related MAC. *British Journal of Anaesthesia*; 93:288-91.
- Leslie, K.; Absalom,A. and Kenny,G.N.(2002):**Closed loop control of sedation for colonoscopy using the Bispectral Index.*Anaesthesia*; 57:693-7.
- Leslie, K.; Chan, M.; Myles, P.S.; Forbes, A. and McCulloch, T.J.(2009):** Post-traumatic stress disorder in aware patients from the B-Aware Trial. *Anaesth. Analg*; 110:823-828.
- Leslie, K.; Myles, P.S.; Forbes, A. and Chan, M.T.V.(2010):** The Effect of Bispectral Index Monitoring on Long-Term Survival in the B-Aware Trial. *Anaesth. Analg* ; 110:816-822.
- Lindholm , M.L.; Träff , S.; Granath, F.; et al.,(2009):** Mortality within two years after surgery in relation to low intraoperative BIS values and preexisting malignant disease. *Anaesth. Analg*; 108:508-512.
- Liu, J.; Singh, H. and White, P.F.(1996):** Electroencephalogram bispectral analysis predicts the depth of midazolam-induced sedation. *Anaesthesiology*; 84:64-69.
- Liu, N.; Chazot, T.; Huybrechts, I.; et al.,(2005):** The influence of a muscle relaxant bolus on bispectral and Datex-Ohmeda

Entropy values during propofol-remifentanil induced loss of consciousness. *Anaesth. Analg* ; 101:1713-1718.

**Liu, S.S.(2004):** Effects of bispectral index monitoring on ambulatory anaesthesia: A meta-analysis of randomized controlled trials and a cost analysis. *Anaesthesiology* ; 101:311-315.

**Llinas, R.R.; Leznik, E. and Urbano, F.J.(2002):** Temporal binding via cortical coincidence detection of specific and nonspecific thalamocortical inputs: a voltage-dependent dye-imaging study in mouse brain slices. *Proc Natl Acad Sci USA*; 99: 449-454.

**Lopez, M.; Ozaki, M.; Sessler, D.; et al., (1993):** Mild core hyperthermia does not alter the electroencephalographic responses during epidural enflurane anaesthesia in humans. *J Clin Anaesth*; 5:425.

**Ludbrook, G.L.; Visco ,E. and Lam, A.M.(2002):** Propofol: Relation between brain concentrations, electroencephalogram, middle cerebral blood flow velocity and cerebral oxygen extraction during induction of anaesthesia. *Anaesthesiology* ; 97:1363-1370.

**Luginbuhl, M. and Schnider,T.W.(2002):** Detection of awareness with the bispectral index: two case reports. *Anaesthesiology*; 96: 241-3.

**Luginbuhl, M.; Wuthrich, S.; Petersen-Felix, S.; et al., (2003):** Different benefit of bispectral index (BIS) in desflurane and propofol anaesthesia. *Acta Anaesthesiol Scand*; 47:165-73.

- Madei ,W.F. and Klieser ,H.P.(2000):** Clinical utility of the bispectral index during s-(+) ketamine/propofol anaesthesia.ASA annual meeting abstracts; A-304.
- March, P.A. and Muir, W.W.(2005):** Bispectral analysis of the electroencephalogram: a review of its development and use in anaesthesia. Vet Anaesth Analg; 32: 241-255.
- Mashour, G.A.; Esaki, R. K.; Tremper, K. K; Glick, D .B.; O'Connor, M. and Avidan, M.S.( 2010):** A novel classification instrument for intraoperative awareness events. Anaesth. Analg; 110(3) : 813-815.
- Mashour, G.A.; Jiang, Y. and Osterman,J.(2006):** Perioperative treatment of patients with a history of intraoperative awareness and post-traumatic stress disorder. Anaesthesiology; 104(4):893-894.
- Mathew, J.P.; Weathersax, K.J.; East, C.J.; et al.,(2001):** Bispectral analysis during cardiopulmonary bypass: The effect of hypothermia on the hypnotic state. J Clin Anaesth;13:301.
- McFarlane, C.; Warner, D.S.; Dexter, F. and Ludwig, P.A. (1994):** Minimum alveolar concentration for halothane in the rat is resistant to effects of forebrain ischemia and reperfusion. Anaesthesiology; 81 (5): 1206-1211.
- Menigaux, C.; Guignard, B.; Adam, F.; et al.,(2002):** Esmolol prevents movement and attenuates the BIS response to orotracheal intubation. British Journal of Anaesthesia ; 89:857-862.

- Messner, M.; Beese, U.; Romstöck, J.; et al.,(2003):** The bispectral index declines during neuromuscular block in fully awake persons. *Anaesth. Analg* ; 97:488-491.
- Meyer, H.H. (1899):** Theorie der Alkoholnarkose. *Arch Exp Pathol Pharmacol*; 42:109-18.
- Miller, D.R.; Blew, P.G.; Martineau, R.J. and Hull, K.A. (1996):** Midazolam and awareness with recall during total intravenous anaesthesia. *Can J Anaesth*; 43: 946-53.
- Mondello, E.; Panasiti, R.; Siliotti, R.; Floridia, D.; David, A. and Trimarchi, G. (2002):** BIS and Ramsay score in critically ill patient: what future?. *Minerva Anaesthesiol.*; 68:37-43.
- Monk, T.G.; Saini, V.; Weldon, B.C.; et al.,(2005):** Anaesthetic management and one-year mortality after noncardiac surgery. *Anaesth. Analg* ; 100:4-10.
- Mukherjee, K.; Seavell, C.; Rawlings, E. and Weiss, A.(2003):** A comparison of total intravenous with balanced anaesthesia for middle ear surgery: effects on postoperative nausea and vomiting, pain, and conditions of surgery. *Anaesthesia* ;58:176-180.
- Myles, P.S.(2007):**Prevention of awareness during anaesthesia. *Best Practice&Research Clinical Anaesthesiology*;21(3):345-355.
- Myles, P.S.; Leslie, K.; McNeil, J.; Forbes, A. and Chan, M.T. (2004):** Bispectral index monitoring to prevent awareness during

anaesthesia: The B-Aware randomized controlled trial. *Lancet*; 363: 1757-63.

**Nelskyla, K.A.; Yli-Hankala, A.M.; Puro, P.H. and Korttila, K.T.(2001):** Sevoflurane titration using bispectral index decreases postoperative vomiting in phase II recovery after ambulatory surgery. *Anaesth. Analg* ; 93:1165-1169.

**Nelson, L.E.; Guo, T.Z.; Lu, J.; Saper, C.B.; et al.,(2002):**The sedative component of anaesthesia is mediated by GABA(A) receptors in an endogenous sleep pathway . *Nat Neurosci* ; 5: 979-984.

**Nickall, R.W.D. and Mapleson, W.W. (2003):** Age-related iso-MAC charts for isoflurane, sevoflurane and desflurane in man. *British Journal of Anaesthesia*; 91:170-4.

**Nieuwenhuijs, D.; Coleman, E.L.; Douglas, N.J.; Drummond, G.B. and Dahan, A.(2002):**Bispectral index values and spectral edge frequency at different stages of physiologic sleep. *Anaesth. Analg*;94:125-9.

**Oda, Y.; Nishikawa, K.; Hase, I. and Asada, A.(2005):** The short-acting beta1-adrenoceptor antagonists esmolol and landiolol suppress the bispectral index response to tracheal intubation during sevoflurane anaesthesia. *Anaesth. Analg* ; 100:733-737.

**Oda, Y.; Tanaka, K.; Matsuura, T.; et al.,(2006):** Nitrous oxide induces paradoxical electroencephalographic changes after tracheal intubation during isoflurane and sevoflurane anaesthesia. *Anaesth. Analg* ; 102:1094-1102.

- Orser, B.A.; Mazer, C.D. and Baker, A.J. (2008):** Awareness during anaesthesia. Canadian Medical Association Journal; 178 (2): 185-188.
- Overton, E. (1901):** Studien uber die Narkose, Zugleich ein Beitrag zur allgemeinen pharmakologie. Jena, Germany, Fisher; 1-195.
- Pagel ,P.S.; Farber, N.E.; Pratt Jr, P.F. and Warltier, D.C.(2010):** Cardiovascular pharmacology. Chapter (23). Miller's Anaesthesia 7<sup>th</sup> edition.
- Pavlin, J.D.; Souter, K. J.; Hong, J.Y.; et al.,(2005):** Effects of Bispectral Index monitoring on recovery from surgical anaesthesia in 1,580 inpatients from an academic medical center. Anaesthesiology; 102 (3): 566-573.
- Plomley, F. (1847):** Operations upon the eye [letter]. Lancet; 1:134.
- Prys-Roberts, C. (1987):** Anaesthesia: A practical or impossible construct. British Journal of Anaesthesia; 59:1341.
- Punjasawadwong, Y.; Boonjeungmonkol, N. and Phongchiewboon, A.(2007):** Bispectral index for improving anaesthetic delivery and postoperative recovery. Cochrane Database Syst Rev ; 4:CD003843.
- Raines, D.E.; Claycomb, R.J.; Scheller, M. and Forman, S.A.(2001):** Nonhalogenated alkane anaesthetics fail to potentiate agonist actions on two ligand-gated ion channels. Anaesthesiology; 95:470-477.

- Rampil, I.J. (1994):** Anaesthetic potency is not altered after hypothermic spinal cord transection in rats. *Anaesthesiology*; 80:606-10.
- Rampil, I.J. (1998):** A primer for EEG signal processing in anaesthesia. *Anaesthesiology*; 89:980-1002.
- Rampil, I.J. and King, B.S. (1996):** Volatile anaesthetics depress spinal motor neurons. *Anaesthesiology*; 85: 129-34.
- Rampil, I.J. and Laster, M.J. (1992):** No correlation between quantitative electroencephalographic measurements and movement response to noxious stimuli during isoflurane anaesthesia in rats. *Anaesthesiology*; 77:920-5.
- Rampil, I.J.(2000):** Mechanisms and sites of action of general anaesthetics: Proceedings of the Fourth International Symposium on Memory and awareness in anaesthesia. Edited by Jordan C, Vaughan DJA, Newton DEF. London, Imperial College Press; 223-31.
- Rampil, I.J.; Kim, J.S.; Lenhardt ,R.; et al.,(1998):** Bispectral EEG index during nitrous oxide administration. *Anaesthesiology*; 89 : 671 - 677.
- Reves, J.G.; Glass, P.S.A.; Lubarsky, D.A.; McEvoy, M.D. and Martinez-Ruiz, R.(2010):** Intravenous Anaesthetics. Chapter (26). *Miller's Anaesthesia* 7<sup>th</sup> edition.
- Rhoney, D.H. and Parker, D. Jr.(2001):** Use of sedative and analgesic agents in neurotrauma patients: effects on cerebral physiology. *Neurol Res*; 23: 237-259.

- Riker, R.R.; Fraser, G.L.; Simmons, L.E. and Wilkins, M.L. (2001):** Validating the Sedation- Agitation Scale with the Bispectral Index and Visual Analog Scale in adult ICU patients after cardiac surgery. *Intensive Care Med.*; 27:853-8.
- Robins, K. and Lyons, G.(2009):** Intraoperative awareness during general anaesthesia for cesarean delivery. *Anaesth. Analg* ; 109: 886-890.
- Robson, J.G.(1969):** Measurement of depth of anaesthesia. *British Journal of Anaesthesia*;41:785.
- Rohm, K.D.; Piper, S.N.; Suttner, S.; Schuler, S. and Boldt, J.(2006):** Early recovery, cognitive function and costs of a desflurane inhalational vs. a total intravenous anaesthesia regimen in long-term surgery. *Acta Anaesthesiol Scand*; 50:14-18.
- Ropcke,H.; Rehberg,B.; Koennen-Bergmann,M.; et al.,(2001):** Surgical stimulation shifts EEG concentration-response relationship with desflurane. *Anaesthesiology* ; 94:390-399.discussion 5A.
- Russell, I.F. and Wang , M. (1996) :** Isolated forearm technique. *British Journal of Anaesthesia*; 76: 884-886.
- Sakai, T.; Singh, H.; Mi, W.D.; et al.,(1999):** The effect of ketamine on clinical endpoints of hypnosis and EEG variables during propofol infusion. *Acta Anaesthesiol Scand* ; 43:212-216.
- Samuelsson, P.; Brudin, L. And Sandin, R.H. (2007):** Late psychological symptoms after awareness among consecutively included surgical patients. *Anaesthesiology*; 106-26-32.

- Sandhu, K. and Dash, H.(2009):** Awareness during anaesthesia. Indian J Anaesth; 53(2):148-57.
- Sandin, R.H.; Enlund, G.; Samuelsson, P.; et al., (2000):** Awareness during Anaesthesia: A prospective case study. Lancet; 355 :707-711.
- Schmidt ,G.N.; Bischoff ,P.; Standl, T.; et al.,(2004):** Comparative evaluation of Narcotrend, bispectral index, and classical electroencephalographic variables during induction, maintenance, and emergence of a propofol/remifentanil anaesthesia. Anaesth. Analg ; 98:1346-1353.
- Schmidt, G.N.; Bischoff, P.; Standl, T.; et al.,(2004):** Comparative evaluation of the Datex-Ohmeda S/5 Entropy Module and the bispectral index monitor during propofol-remifentanil anaesthesia. Anaesthesiology; 101:1283-1290.
- Sebel , P.S.; Lang, E.; Rampil, I.J.; et al.,(1997):** A multicenter study of bispectral electroencephalogram analysis for monitoring anaesthetic effect. Anaesth. Analg; 84:891-899.
- Sebel, P.S.; Bowdle, A.; Ghoneim, M.; et al., (2003):** Incidence of awareness during anaesthesia : A multicenter US study. Anaesthesiology ; 99:833-9.
- Sebel, P.S.; Bowdle, T.A.; Ghoneim, M.M.; Rampil, I.J; Padilla, R.E.; Gan, T.J. and Domino, K.B. (2004):** The incidence of awareness during anaesthesia: A multicenter United State study. Anaesth. Analg; 99:833-839.

- Seubert, C. N. and Mahla, M. E. (2010):** Neurologic Monitoring. Chapter(46). Miller's Anaesthesia 7<sup>th</sup> edition.
- Sice, P. J.A.(2005):**Depth of anaesthesia.Update in Anaesthesia(WFSA); issue 19.Article 10:Page1 of 1.
- Sigalovsky, N.(2003):** Awareness under general anaesthesia. AANA Journal; 71(5):373-379.
- Sigl, J.C. and Chamoun, N.G. (1994):** An introduction to bispectral analysis for the electroencephalogram. J Clin Monit; 10:392-404.
- Sneyd, J.R.(2003):** How low can we go? .British Journal of Anaesthesia; 91: 771-72.
- Snow, J. (1847):** On the Inhalation of the Vapors of Ether in Surgical Operations: Containing a description of the various stages of etherization, and a statement of the result of nearly eighty operations in which ether has been employed in St. George's and the University College Hospitals. London, John Churchill. Reproduced by Lea&Febiger, Philadelphia.
- Snow, J. (1858):** On Chloroform and Other Anaesthetics, London: John Churchill.
- Song, D.; Joshi, G.P. and White , P.F.(1997):** Titration of volatile anaesthetics using bi-spectral index facilitates recovery after ambulatory anaesthesia. Anaesthesiology; 87:842.
- Sonner, J.M.; Antognini, J.F.; Dutton, R.C.; Flood, P.; Gray, A.T.; Vissel, B. ;et al., (2003):** Inhaled anaesthetics and immobility:

Mechanisms, mysteries, and minimum alveolar anaesthetic concentration. *Anaesth. Analg*; 97 (3):718-40.

**Sonner, J.M.; Li, J. and Eger, E.LII.(1998):** Desflurane and the nonimmobilizer 1,2-dichlorohexafluorocyclobutane suppress learning by a mechanism independent of the level of unconditioned stimulation. *Anaesth. Analg*; 87:200-5.

**Soto, R.G.; Smith ,R.A.; Zaccaria, A.L. and Miguel, R.V.(2006):** The effect of addition of nitrous oxide to a sevoflurane anaesthetic on BIS, PSI, and entropy. *J Clin Monit Comput* ; 20:145-150.

**Stammet, P.; Werer, C.; Mertens ,L.; Lorang ,C. and Hemmer, M.(2009):** Bispectral index (BIS) helps predicting bad neurological outcome in comatose survivors after cardiac arrest and induced therapeutic hypothermia. *Resuscitation*; 80 : 437-442.

**Stanski, D.A. and Shafer, S.L. (2005):** Measuring Depth of Anaesthesia.chapter(31).Miller's Anaesthesia 6<sup>th</sup> edition.

**Struys, M.M.; Vereecke ,H.; Moerman, A.; et al., (2003):** Ability of the bispectral index, autoregressive modelling with exogenous input-derived auditory evoked potentials, and predicted propofol concentrations to measure patient responsiveness during anaesthesia with propofol and remifentanyl. *Anaesthesiology*; 99:802-812.

**Suzuki, M.; Edmonds Jr, H.L.; Tsueda ,K.; et al.,(1998):** Effect of ketamine on bispectral index and levels of sedation. *J Clin Monit Comput* ; 14:373.

- Szekely, B.; Saint-Marc, T.; Degremont, A.C.; Castelain, M.H. and Fischler, M. (2002):** Value of bispectral index monitoring during cardiopulmonary resuscitation. *Br J Anaesth.*; 88: 443-4.
- Tallon-Baudry ,C.(2000):** Oscillatory synchrony as a signature for the unity of visual experience. *Consciousness and cognition in 4<sup>th</sup> conference of the association for the scientific study of consciousness*; S25–26.
- Thomas, W.D. and Runciman, W.B. (1988):** Monitoring depth of anaesthesia. *Anaesth Intensive Care*; 16:69.
- Todd, M.M.; Weeks, J.B. and Warner, D.S. (1993):** A focal cryogenic brain lesion does not reduce the minimum alveolar concentration for halothane in rats. *Anaesthesiology*; 79:139-43.
- Trillo-Urrutia, L.; Fernandez-Galinski, S. and Castano-Santa, J. (2003):** Awareness detected by auditory evoked potential monitoring. *British Journal of Anaesthesia*; 91:290-92.
- Triltsch, A.E.; Welte, M.; von Homeyer, P.; et al.,(2002):** Bispectral index–guided sedation with dexmedetomidine in intensive care: A prospective, randomized, double blind, placebo-controlled phase II study. *Crit Care Med* ; 30:1007-1014.
- Vakkuri, A.; Yli-Hankala, A.; Sandin, R.; et al.,(2005):** Spectral entropy monitoring is associated with reduced propofol use and faster emergence in propofol–nitrous oxide–alfentanil anaesthesia. *Anesthesiology*; 103:274-279.

- Vasella, F.C.; Frascarolo, P.; Spahn, D.R. and Magnusson, L.(2005):** Antagonism of neuromuscular blockade but not muscle relaxation affects depth of anaesthesia. *British Journal of Anaesthesia*; 94:742-747.
- Vereecke, H.E.; Vanluchene, A.L.; Mortier, E.P.; et al.,(2006):** The effects of ketamine and rocuronium on the A-Line auditory evoked potential index, bispectral index, and spectral entropy monitor during steady state propofol and remifentanyl anaesthesia. *Anaesthesiology* ; 105:1122-1134.
- Vernon, J.M.; Lang, E.; Sebel, P.S. and Manberg, P.(1995):** Prediction of movement using bispectral EEG during propofol / alfentanil or isoflurane / alfentanil anaesthesia. *Anaesth. Analg* ; 80:780-785.
- Veselis, R.A.; Feshchenko, V.A.; Reinsel, R.A.; Dnistrian, A.M.; et al.,(2004):** Thiopental and propofol affect different regions of the brain at similar pharmacologic effects. *Anaesth. Analg*; 99: 399-408.
- Veselis, R.A.; Reinsel, R.A.; Feshchenko, V.A. and Dnistrian, A.M. (2002):** A neuroanatomical construct for the amnesic effects of propofol. *Anesthesiology*; 97: 329-37.
- Vivien, B.; Di Maria, S.; Ouattara, A.; et al.,(2003):** Overestimation of bispectral index in sedated intensive care unit patients revealed by administration of muscle relaxants. *Anesthesiology*; 99 : 9-17.

- Wallace, B.E.; Wagner, A.K.; Wagner, E.P. and McDevitt, J.T.(2001):**  
A history and review of quantitative electroencephalography in  
traumatic brain injury. *J Head Trauma Rehabil*; 16: 165-190.
- Wang, L.P.; McLoughlin, P.; Paech, M.J.; et al.,(2007):** Low and  
moderate remifentanyl infusion rates do not alter target-  
controlled infusion propofol concentrations necessary to  
maintain anesthesia as assessed by bispectral index monitoring.  
*Anaesth. Analg* ; 104:325-331.
- Watson, B.D. and Kane-Gill ,S.L.(2004):** Sedation assessment in  
critically ill adults. *Ann Pharmacother*; 38:1898-1906.
- Weldon, B.C.; Mahla , M.E.; Van der Aa, M.; et al., (2002):** Advancing  
age and deeper intraoperative anaesthetic levels are associated  
with higher first year death rates. *Anaesthesiology*; 97  
(Suppl):A1097.
- White, D.C. (1987):** Anaesthesia: A privation of the senses. An historical  
introduction and some definitions. In: Rosen M. And Lunn JN,  
ed. *Conscious, awareness and pain in General anaesthesia*,  
Butterworth, London.pp.5.
- Wong, J.; Song, D.; Blanshard, H. ; et al.,(2002):** Titration of isoflurane  
using BIS index improves early recovery of elderly patients  
undergoing orthopedic surgeries. *Canadian Journal of  
Anaesthesia*; 49(1) : 13-18.
- Xu ,L.; Wu , A.S. and Yue, Y.(2009):** The incidence of intra-operative  
awareness during general anaesthesia in China: a multicenter  
observational study.*Acta Anaesthesiol Scand*;53:873-82.
- Yli-Hankala , A.(2008):** Awareness despite low spectral entropy values.  
*Anaesth. Analg*; 106 : 1585.