

PUBLICATIONS:

Jeanne M, Delecroix M, De Jonckheere J, Keribedj A, Logier R, Tavernier B. Variations of the Analgesia Nociception Index During Propofol Anesthesia for Total Knee Replacement. *Clin J Pain*. 2014 Feb 12. [Epub ahead of print]

De Jonckheere J, Delecroix M, Jeanne M, Keribedj A, Couturier N, Logier R. Automated analgesic drugs delivery guided by vagal tone evaluation: Interest of the Analgesia Nociception Index (ANI). *Conf Proc IEEE Eng Med Biol Soc* 2013;2013:1952-1955.

Marcilly R, Bras Da Costa S, Boog C, Beuscart-Zephir MC, De Jonckheere J, Pelayo S. Impact of the context of use analysis for the extension of an existing medical device: an analgesia monitor case study. *Stud Health Technol Inform* 2013;194:139-44.

De jonckheere J, Rommel D, Nandrin JL, Jeanne M, Logier R. Heart rate variability analysis as an index of emotion regulation processes: Interest of the Analgesia Nociception Index (ANI). *Conf Proc IEEE Eng Med Biol Soc* 2012;2012:3432-5.

Jeanne M, Clément C, De Jonckheere J, Logier R, Tavernier B. Variations of the analgesia nociception index during general anaesthesia for laparoscopic abdominal surgery. *J Clin Monit Comput* 2012;26:289-94.

Logier R, De Jonckheere J, Delecroix M, Keribedj A, Jeanne M, Jounwaz R, et al. Heart rate variability analysis for arterial hypertension etiological diagnosis during surgical procedures under tourniquet. *Conf Proc IEEE Eng Med Biol Soc* 2011;2011:3776-9.

Logier R, Jeanne M, De Jonckheere J, Dassonneville A, Delecroix M, Tavernier B. PhysioDoloris: a monitoring device for analgesia / nociception balance evaluation using heart rate variability analysis. *Conf Proc IEEE Eng Med Biol Soc* 2010;2010:1194-7.

Jeanne M, Logier R, De Jonckheere J, Tavernier B. Validation of a graphic measurement of heart rate

variability to assess analgesia/nociception balance during general anesthesia. *Conf Proc IEEE Eng Med Biol Soc* 2009;2009:1840-3.

Jeanne M, Logier R, De Jonckheere J, Tavernier B. Heart rate variability during total intravenous anesthesia: effects of nociception and analgesia. *Auton Neurosci* 2009;147:91-6.

Logier R, Jeanne M, Tavernier B, De Jonckheere J. Pain/analgesia evaluation using heart rate variability analysis. *Conf Proc IEEE Eng Med Biol Soc* 2006;1:4303-6.

Logier R, De Jonckheere J, Dassonneville A. An efficient algorithm for R-R intervals series filtering. *Conf Proc IEEE Eng Med Biol Soc* 2004;6:3937-40.

INTERNATIONAL CONFERENCES:

L. Ursulet, J. Cros, J. De jonckheere, P. Senges, A. Vincelot, N. Nathan. Bedside analysis of heart rate variability with Analgesia Nociception Index (ANI) predicts hypotension after spinal anesthesia for elective cesarean delivery. *Euroanesthesia, Congress of the European Society of Anaesthesiology (ESA), Paris, June 2012.*

M. Jeanne, C. Clément, J. De jonckheere, R. Logier, B. Tavernier. Analgesia Nociception Index online computation and preliminary clinical test during cholecystectomy under remifentanyl-propofol anesthesia. *Annual meeting of the European Society for Computing and Technology in Anesthesia and Intensive Care (ESTAIC), October 2010.*

NATIONAL CONFERENCES (FRANCE):

M. Delecroix, M. Jeanne, A. Keribedj, N. Couturier, J. De Jonckheere, R. Logier, B. Tavernier. Utilisation de l'ANI lors de la chirurgie orthopédique : évaluation du bénéfice patient. *Congrès annuel de la Société Française d'Anesthésie Réanimation (SFAR), Paris, septembre 2013.*

C. Brouqsault-Dedrie, S. Nseir, J. de Jonckheere, C. Lemaire, A. Durocher. Validité de la mesure de la variabilité du rythme cardiaque pour l'évaluation de la

nociception chez les patients de réanimation. 41ème congrès de la Société de Réanimation de Langue Française (SRLF), Paris 2013.

D. Rommel, J.L. Nandrino, J. De jonckheere, M. Swierczek, V. Dodin, R. Logier. Retard de l'inhibition parasympathique après l'induction d'un état émotionnel négatif dans l'anorexie mentale. 7ème Congrès de Psychologie de la Santé de langue Française, Lille 2012.

J. De jonckheere, D. Rommel, J.L. Nandrino, M. Jeanne, R. Logier. Heart rate variability analysis as an index of emotion regulation processes: Interest of the Analgesia Nociception Index (ANI). 4ème réunion annuelle de l'Institut Thématique Multi Organisme (ITMO) Technologies pour la santé, Lille, Octobre 2012.

M. Delecroix, J. De jonckheere, M. Jeanne, A. Keribedj, R. Logier, B. Tavernier. Variations de l'Analgesia Nociception Index lors de la chirurgie orthopédique réglée sous anesthésie générale. Congrès annuel de la Société Française d'Anesthésie Réanimation (SFAR), Paris, septembre 2012.

J. Cros, L. Ursulet, C. Mancía, J. De jonckheere, P. Senges, N. Nathan. Intérêt prédictif de l'ANI dans les hypotensions induites par rachianesthésie chez les parturientes. Congrès annuel de la Société Française d'Anesthésie Réanimation (SFAR), Paris, septembre 2012.

C. Mancía, L. Ursulet, J. De jonckheere, P. Senges, N. Nathan, J. Cros. Intérêt prédictif de l'ANI dans les hypotensions induites par rachianesthésie chez les parturientes. Congrès national du Club d'Anesthésie-Réanimation en Obstétrique (CARO), Clermont Ferrand, Mai 2012.

M. Delecroix, A. Keribedj, J. De jonckheere, R. Logier. Visualiser la balance analgésie nociception par l'analyse de la variabilité du rythme cardiaque. 19ème Journées Lilloise d'Anesthésie Réanimation et de médecine d'urgence, Lille, mars 2012.

R. Logier, J. De jonckheere, M. Jeanne, J. Avez-Couturier,

M. Delecroix, L. Storme, L. Vallée, B. Tavernier. Vers une mesure objective de la douleur. 24ème entretiens annuels de la Fondation Garches, « Handicap et Douleur », Paris, 24-25 novembre 2011.

A. Keribedj, M. Delecroix, J. De jonckheere, M. Jeanne, R. Logier, B. Tavernier. Utilisation de l'ANI pour le diagnostic étiologique de l'hypertension artérielle au cours de la chirurgie orthopédique sous garrot. Congrès annuel de la Société Française d'Anesthésie Réanimation (SFAR), Paris, septembre 2011.

M. Jeanne, C. Clément, J. De Jonckheere, R. Logier, B. Tavernier. Variations de l'Analgesia Nociception Index au cours de la chirurgie abdominale sous anesthésie générale. Congrès annuel de la Société Française d'Anesthésie Réanimation (SFAR), Paris, septembre 2011.

J. De jonckheere, V. Camels, M. Delecroix, M. Jeanne, D. Deplanque, R. Logier. Analgesia nociception index validation on pain measurement during and after knee replacement surgical procedures. 15th annual meeting of the french society of pharmacology and therapeutics, Grenoble, 22-24 march 2011.

J. Avez-Couturier, R. Logier, M. Jeanne, J. De jonckheere, L. Vallée. Application d'un système d'analyse de la variabilité du rythme cardiaque à l'évaluation de la douleur chez l'enfant. 10ème congrès national de la Société Française d'Etude et de Traitement de la Douleur (SFETD), Marseille, Novembre 2010.

Jeanne M., De jonckheere J., Logier R., Tavernier B. Mise au point d'une mesure graphique de la variabilité sinusale du rythme cardiaque pour l'estimation de la balance analgésie / nociception : l'Analgesia Nociception Index (ANI). Congrès annuel de la Société Française d'Anesthésie Réanimation (SFAR), septembre 2010, Paris, France

ANI CITATIONS:

Le Guen M, Jeanne M, Sievert K, Al Moubarik M, Chazot T, Laloë PA, Dreyfus JF, Fischler M. The Analgesia

Nociception Index: a pilot study to evaluation of a new pain parameter during labor. *Int J Obstet Anesth.* 2012 Apr;21(2):146-51

Boselli E, Daniela-Ionescu M, Bégou G, Bouvet L, Dabouz R, Magnin C, Allaouchiche B. Prospective observational study of the non-invasive assessment of immediate postoperative pain using the analgesia/nociception index (ANI). *Br J Anaesth.* 2013 Sep;111(3):453-9.

Boselli E, Bouvet L, Bégou G, Dabouz R, Davidson J, Deloste JY, Rahali N, Zadam A, Allaouchiche B. Prediction of immediate postoperative pain using the analgesia/nociception index: a prospective observational study. *Br J Anaesth.* 2013 Dec 8

Gruenewald M, Ilies C, Herz J, Schoenherr T, Fudickar A, Höcker J, Bein B. Influence of nociceptive stimulation on analgesia nociception index (ANI) during propofol-remifentanyl anaesthesia. *Br J Anaesth.* 2013 Jun;110(6):1024-30

Ledowski T, Tiong WS, Lee C, Wong B, Fiori T, Parker N. Analgesia nociception index: evaluation as a new parameter for acute postoperative pain. *Br J Anaesth.* 2013 Oct;111(4):627-9.

Migeon A, Desgranges FP, Chassard D, Blaise BJ, De Queiroz M, Stewart A, Cejka JC, Combet S, Rhondali O. Pupillary reflex dilatation and analgesia nociception index monitoring to assess the effectiveness of regional anesthesia in children anesthetised with sevoflurane. 2013 Dec;23(12):1160-5.

Sabourdin N, Arnaout M, Louvet N, Guye ML, Piana F, Constant I. Pain monitoring in anesthetized children: first assessment of skin conductance and analgesia-nociception index at different infusion rates of remifentanyl. *Paediatr Anaesth.* 2013 Feb;23(2):149-55.

Ledowski T, Averhoff L, Tiong WS, Lee C. Analgesia Nociception Index (ANI) to predict intraoperative haemodynamic changes: results of a pilot investigation. *Acta Anaesthesiol Scand.* 2014 Jan;58(1):74-9

HEART RATE VARIABILITY CITATIONS:

Wolf MM, Varigos GA, Hunt D, Sloman JG. Sinus arrhythmia in acute myocardial infarction. *Med J Aust.* 1978;2:52-3.

Akselrod S, Gordon D, Ubel FA, Shannon DC, Berger AC, Cohen RJ. Power spectrum analysis of heart rate fluctuation : a quantitative probe of beat-to-beat cardiovascular control. *science.* 1981;213:220-2.

Ewing DJ, Martyn CN, Young RJ, Clarke BF. The value of cardiovascular autonomic function tests: 10 years experience in diabetes. *Diabetes Care.* 1985;8:491-8.

O'Brien IA, O'Hare JP, Lewin IG, Corrall RJ. The prevalence of autonomic neuropathy in insulin-dependent diabetes mellitus: a controlled study based on heart rate variability. *Q J Med.* 1986;61:957-67.

Kleiger RE, Miller JP, Bigger JT, Moss AJ. Decreased heart rate variability and its association with increased mortality after acute myocardial infarction. *Am J cardiol.* 1987;59:256-62.

Esler M, Jennings G, Korner P, et al. Assessment of human sympathetic nervous system activity from measurements of norepinephrine turnover. *Hypertension.* 1988;11:3-20.

Pagani M, Malfatto G, Pierini S, et al. Spectral analysis of heart rate variability in the assessment of autonomic diabetic neuropathy. *J Auton Nerv Syst.* 1988;23:143-53.

Friesen GM, Jannett TC, Jadallah MA, Yates SL, Quint SR, Nagle HT. A comparison of the noise sensitivity of nine QRS detection algorithms. *IEEE Trans Biomed Eng.* 1990;37:85-98.

Merri M, Farden DC, Mottley JG, Titlebaum EL. Sampling frequency of the electrocardiogram for spectral analysis of the heart rate variability. *IEEE Trans Biomed Eng.* 1990;37:99-106.

Ali-Melkkilä T, Kaila T, Antila K, Iisalo E. Effects of glycopyrrolate and atropine on heart rate variability. *Acta Anaesthesiol Scand*. 1991;35:436-41.

Cook JR, Bigger JT, Kleiger RE, Fleiss JL, Steinman RC, Rolnitzky LM. Effect of atenolol and diltiazem on heart period variability in normal persons. *J Am Coll Cardiol*. 1991;17:480-4.

Saul JP, Berger RD, Albrecht P, et al. Transfer function analysis of the circulation: unique insights into cardiovascular regulation. *Am J Physiol* 1991; 261: H1231-45.

Kahn R. Proceedings of a consensus development conference on standardized measures in diabetic neuropathy. Autonomic nervous system testing. *Diabetes Care*. 1992;15:1095-103.

Kato M, Komatsu T, Kimura T, Sugiyama F, Nakashima K, Shimada Y. Spectral analysis of heart rate variability during isoflurane anesthesia. *Anesthesiology*. 1992;77:669-74.

Latson TW, McCarroll SM, Mirhej MA, Hyndman VA, Whitten CW, Lipton JM. Effects of three anesthetic induction techniques on heart rate variability. *J Clin Anesth*. 1992;4:265-76.

Ziegler D, Laux G, Dannehl K, et al. Assessment of cardiovascular autonomic function: age-related normal ranges and reproducibility of spectral analysis, vector analysis, and standard tests of heart rate variation and blood pressure responses. *Diabet Med*. 1992;9:166-75.

Latson TW, O'Flaherty D. Effects of surgical stimulation on autonomic reflex function: assessment of changes in heart rate variability. *Br J Anaesth*. 1993;70:301-5.

Bernardi L, Leuzzi S, Radaelli A, Passino C, Johnston JA, Sleight P. Low-frequency spontaneous fluctuations of R-R interval and blood pressure in conscious humans: a baroreceptor or central phenomenon? *Clin Sci (Lond)*. 1994;87:649-54.

Galletly DC, Westenberg AM, Robinson BJ, Corfiatis T. Effects of halothane, isoflurane and fentanyl on spectral components of heart rate variability. *Br J Anaesth*. 1994;72:177-80.

Galletly DC, Buckley DHF, Robinson BJ, Corfiatis T. Heart rate variability during propofol anaesthesia. *Br J Anaesth*. 1994;72:219-20.

Landry DP, Bennett FM, Oriol NE. Analysis of heart rate dynamics as a measure of autonomic tone in obstetrical patients undergoing epidural or spinal anesthesia. *Reg Anesth*. 1994;19:189-6.

Latson TW, Ashmore TH, Reinhart DJ, Klein KW, Giesecke AH. Autonomic reflex dysfunction in patients presenting for elective surgery is associated with hypotension after anesthesia induction. *Anesthesiology*. 1994;80:326-37.

Malliani A, Lombardi F, Pagani M. Power spectrum analysis of heart rate variability: a tool to explore neural regulatory mechanisms. *Br Heart J*. 1994;71:1-2.

Moser M, Lehofer M, Sedminek A, et al. Heart rate variability as a prognostic tool in cardiology. A contribution to the problem from a theoretical point of view. *Circulation*. 1994;90:1078-92.

Pinna GD, Maestri R, Di Cesare A, Colombo R, Minuco G. The accuracy of power-spectrum analysis of heart rate variability from annotated RR lists generated by Holter systems. *Physiol Meas*. 1994;15:163-79.

Ikuta Y, Shimoda O, Kano T. Quantitative assessment of the autonomic nervous system activities during atropine-induced bradycardia by heart rate spectral analysis. *J Auton Nerv Syst*. 1995;52:71-6.

Kamath MV, Fallen EL. Correction of the heart rate variability signal for ectopics and missing beats p75-85. Armonk; 1995.

Porges SW. Orienting in a defensive world: mammalian modifications of our evolutionary heritage. A polyvagal

theory. *Psychophysiology*. 1995;32:301-18.

Porges SW. Cardiac vagal tone: a physiological index of stress. *Neurosci Biobehav Rev*. 1995;19:225-33.

Ireland N, Meagher J, Sleight JW, Henderson JD. Heart rate variability in patients recovering from general anaesthesia. *Br J Anaesth*. 1996;76:657-62.

Levitt NS, Stansberry KB, Wynchank S, Vinik AI. The natural progression of autonomic neuropathy and autonomic function tests in a cohort of people with IDDM. *Diabetes Care*. 1996;19:751-4.

Tsuji H, Larson MG, Venditti FJ Jr, et al. Impact of reduced heart rate variability on risk for cardiac events. The Framingham Heart Study. *Circulation*. 1996;94:2850-5.

Task force of the European society of Cardiology of the North American society of pacing electrophysiology. Heart rate variability. Standards for measurements, physiological interpretation and clinical use. *Circulation* 1996; 93: 1043-1065

Berntson GG, Bigger JT Jr, Eckberg DL, et al. Heart rate variability: origins, methods, and interpretive caveats. *Psychophysiology*. 1997;34:623-48.

Eckberg D. Sympathovagal balance : a critical appraisal. *Circulation*. 1997;96:3224-32.

Goldsmith RL, Bigger JT, Bloomfield DM, et al. Long-term carvedilol therapy increases parasympathetic nervous system activity in chronic congestive heart failure. *Am J cardiol*. 1997;80:1101-4.

Huang HH, Chan HL, Lin PL, Wu CP, Huang CH. Time-frequency spectral analysis of heart rate variability during induction of general anaesthesia. *Br J Anaesth*. 1997;79:754-8.

Parlow JL, van Vlymen JM, Odell MJ. The duration of impairment of autonomic control after anticholinergic

drug administration in humans. *Anesth Analg*. 1997;84:155-9.

van de Borne P, Montano N, Zimmermann B, Pagani M, Somers V. Relationship between repeated measures of hemodynamics, muscle sympathetic nerve activity and their spectral oscillations. *Circulation*. 1997;96.

Kawamoto M, Sera A, Kaneko K, Yuge O, Ohtani M. Parasympathetic activity in brain death : effect of apnea on heart rate variability. *Acta Anaesthesiol Scand*. 1998;42:47-51

Kobayashi H. Normalization of respiratory sinus arrhythmia by factoring in tidal volume. *Appl Human Sci*. 1998;17:207-13.

Koh J, Brown TE, Beightol LA, Eckberg DL. Contributions of tidal lung inflation to human R-R interval and arterial pressure fluctuations. *J Auton Nerv Syst*. 1998;68:89-95.

Michaloudis D, Kochiadakis G, Georgopoulou G, et al. The influence of premedication on heart rate variability. *Anaesthesia* 1998; 53: 446-53.

Altimiras J. Understanding autonomic sympathovagal balance from short term heart rate variations. Are we analysing noise ? *Comp Biochem Physiol A Mol Integr Physiol*. 1999;124:447-60.

Grassi G, Esler M. How to assess sympathetic activity in humans. *J Hypertens*. 1999;17:719-34.

Pichot V, Gaspoz JM, Molliex S, et al. Wavelet transform to quantify heart rate variability and to assess its instantaneous changes. *J Appl Physiol*. 1999;86:1081-91

Lehrer PM, Vaschillo E, Vaschillo B. Resonant frequency biofeedback training to increase cardiac variability: rationale and manual for training. *Appl Psychophysiol Biofeedback*. 2000;25:177-91.

Dishman RK, Nakamura Y, Garcia ME, et al. Heart rate variability, trait anxiety, and

perceived stress among physically fit men and women. *Int J Psychophysiol* 2000; 37: 121-33.

Rapenne T, Moreau D, Lenfant F, Boggio V, Cottin Y, Freysz M. Could heart rate variability analysis become an early predictor of imminent brain death ? A pilot study. *Anesth Analg*. 2000;91:329-36.

Wennerblom B, Lurje L, Tygesen H, et al. Patients with uncomplicated coronary artery disease have reduced heart rate variability mainly affecting vagal tone. *Heart*. 2000; 83: 290-4.

Nagasaki G, Tanaka M, Nishikawa T. The recovery profile of baroreflex control of heart rate after isoflurane or sevoflurane anesthesia in humans. *Anesth Analg*. 2001;93:1127-31

Pichot V, Buffiere S, Gaspoz JM, et al. Wavelet transform of heart rate variability to assess autonomous system activity does not predict arousal from general anesthesia. *Can J Anaesthesia*. 2001;48:859-63.

Valensi P, Sachs RN, Harfouche B, et al. Predictive value of cardiac autonomic neuropathy in diabetic patients with or without silent myocardial ischemia. *Diabetes Care*. 2001;24:339-43.

Critchley HD, Mathias CJ, Dolan RJ. Fear conditioning in humans: the influence of awareness and autonomic arousal on functional neuroanatomy. *Neuron*. 2002;33:653-63.

Kalkman CJ, Drummond JC. Monitors of depth of anesthesia, quo vadis? *Anesthesiology*. 2002;96:784-7.

Malpas SC. Neural influences on cardiovascular variability : possibilities and pitfalls. *Am J Physiol Heart Circ Physiol*. 2002;282:H6-H20.

Craig AD. A new view of pain as a homeostatic emotion. *Trends Neurosci*. 2003;26:303-7.

Critchley HD, Mathias CJ, Josephs O, et al. Human cingulate cortex and autonomic control: converging neuroimaging and clinical evidence. *Brain*. 2003;126:2139-52.

Kanaya N, Hirata N, Kurosawa S, Nakayama M, Namiki A. Differential effects of propofol and sevoflurane on heart rate variability. *Anesthesiology*. 2003;98:34-40.

Demaree HA, Robinson JL, Everhart DE, et al. Resting RSA is associated with natural and self-regulated responses to negative emotional stimuli. *Brain Cogn* 2004; 56: 14-23.

Deschamps A, Kaufman I, Backman SB, Plourdes G. Autonomic nervous system response to epidural analgesia in laboring patients by wavelet transform of heart rate and blood pressure variability *anesthesiology*. 2004;101:21-7.

Hjortskov N, Rissén D, Blangsted AK, Fallentin N, Lundberg U, Sjøgaard K. The effect of mental stress on heart rate variability and blood pressure during computer work. *Eur J Appl Physiol*. 2004;92:84-9.

Kobala J, Meglic B, Mesec A, Peterlin B. Early sympathetic hyperactivity in Huntington's disease. *Eur J Neurol*. 2004;11:842-8.

Poyhonen M, Syvaöja S, Hartikainen J, Ruokonen E, Takala J. The effect of carbon dioxide, respiratory rate and tidal volume on human heart rate variability. *Acta Anaesthesiol Scand*. 2004;48:93-101.

Critchley HD. Neural mechanisms of autonomic, affective, and cognitive integration. *J Comp Neurol*. 2005;493:154-66.

Hänss R, Bein B, Ledowski T, et al. Heart rate variability predicts severe hypotension after spinal anesthesia for elective cesarean delivery. *Anesthesiology*. 2005;102:1086-93.

Kleiger RE, PK S, Bigger JT. Heart rate variability :

measurement and clinical utility. *Ann Noninvasive Electrocardiol.* 2005;10:88-101.

Nishioka Y, Sashika H, Andho N et al. Relation between 24-h heart rate variability and blood pressure fluctuation during exercise in stroke patients. *Circ J.* 2005; 69: 717-21.

Benarroch EE. Pain-autonomic interactions. *Neurol Sci* 2006; 27 (Suppl 2): S130-3.

Hänss R, Bein B, Weseloh H, et al. Heart rate variability predicts severe hypotension after spinal anesthesia. *Anesthesiology.* 2006;104:537-45.

Hänss R, Bein B, Francksen H, et al. Heart rate variability-guided prophylactic treatment of severe hypotension after subarachnoid block for elective cesarean delivery. *Anesthesiology.* 2006;104:635-43

Luginbühl M, Rüfenacht M, Korhonen I, Gils M, Jakob S, Petersen-Felix S. Stimulation induced variability of pulse plethysmography does not discriminate responsiveness to intubation. *Br J Anaesth.* 2006;96:323-9.

Martinmäki K, Rusko H, Kooistra L, Kettunen J, Saalasti S. Intraindividual validation of heart rate variability indexes to measure vagal effects on hearts. *Am J Physiol Heart Circ Physiol.* 2006;290:H640-H7.

Parati G, Mancia G, Di Rienzo M, et al. Point: cardiovascular variability is/is not an index of autonomic control of circulation. *Appl Physiol* 2006; 101: 676-8; discussion 681-2.

Rantanen M, Yli-Hankala A, Gils Mv, et al. Novel multiparameter approach for measurement of nociception at skin incision during general anaesthesia. *Br J Anaesth.* 2006;96:367-76.

Sinski M, Lewandowski J, Abramczyk P, Narkiewicz K, Gaciong Z. Why study sympathetic nervous system? *J Physiol Pharmacol.* 2006;57:79-92.

Ahonen J, Jokela R, Uutela K, Huiku M. Surgical stress index reflects surgical stress in gynaecological laparoscopic day-case surgery. *Br J Anaesth.* 2007;98:456-61.

Belova N, Mihaylov S, Piriyova B. Wavelet transform: A better approach for the evaluation of instantaneous changes in heart rate variability. *Auton Neurosci.* 2007;131:107-22.

Huiku M, Uutela K, vanGils M, et al. Assessment of surgical stress during general anaesthesia. *Br J Anaesth.* 2007;98:447-55.

Laitio T, Jalonen J, Kuusela T, Scheinin H. The role of heart rate variability in risk stratification for adverse postoperative cardiac events. *Anesth Analg.* 2007;105:1548-60.

Pan RL, Li JK. A Noninvasive Parametric Evaluation of Stress Effects on Global Cardiovascular Function. *Cardiovasc Eng* 2007 May 17.

Luginbühl M, Ypparila-Wolters H, Rüfenacht M, Petersen-Felix S, Korhonen I. Heart rate variability does not discriminate between different levels of haemodynamic responsiveness during surgical anaesthesia. *Br J Anaesth.* 2007;98:728-36.

Appelhans BM, Luecken LJ. Heart rate variability and pain: associations of two interrelated homeostatic processes. *Psychol.* 2008; 77: 174-82.

Cooke WH, Rickards CA, Ryan KL, Convertino VA. Autonomic compensation to simulated haemorrhage monitored with heart period variability. *Crit Care Med.* 2008;36:1892-9.

Miu AC, Heilman RM, Miclea M. Reduced heart rate variability and vagal tone in anxiety: trait versus state, and the effects of autogenic training. *Auton Neurosci* 2009 28; 145: 99-103.