

Early Detection Patient Monitoring

Published Papers, Abstracts and Editorials

Multi-parameter monitoring for early warning of patient deterioration

Tarassenko L, Hann A, Patterson A, Braithwaite E, Davidson K, Barber V and Young D. Presented at the 3rd IEE International Seminar on Medical Applications of Signal Processing, London, 71-6 in 2005.

A randomised controlled trial of the effect of continuous electronic physiological monitoring on the adverse event rate in high risk medical and surgical patients

Watkinson P.J, V.S. Barber, J.D Price, A Hann, L. Tarassenko and J.D Young. Anaesthesia 2006 (61) 1031-1039

Integrated monitoring and analysis for early warning of patient deterioration

Tarassenko L, Hann A., and Young D., BJA Advance Access published May 17, 2006.

Electronic Integrated Monitoring of Medical Emergency Team Calls to a Step Down Unit

Hravnak M, et. al. Presented as a poster at the 2007 MET Conference. Published in Circulation, Volume 116, Issue 16 Supplement; October 16, 2007 / Abstracts From Scientific Sessions 2007.

Ability of an electronic integrated monitoring system to impact duration of patient instability on a step down unit

Pinsky, M., et. al. American Journal of Critical Care, 2008; 17 (3), 279. Presented at the American Association of Critical Care Nurses National Teaching Institute, Chicago, IL; May 5, 2008.

Impact of an Electronic Integrated Monitoring System Upon the Incidence and Duration of Patient Instability on a Step Down Unit

Hravnak, Marilyn, et. al. Presented at the 4th International Symposium on Rapid Response Systems and Medical Emergency Teams on 9th May 2008.

Cardiorespiratory instability before and after implementing an integrated monitoring system

Pinsky M., et. al. American Journal of Respiratory Critical Care Medicine, 2008: 177: A842. Presented at the American Thoracic Society Meeting Toronto ON, May 21, 2008

Defining the Incidence of Cardiorespiratory Instability in Patients in Step-down Units Using an Electronic Integrated Monitoring System

Hravnak et al, Arch Intern Med 2008 168(12) 1300-1308

Aggregate Vital Sign Monitoring Prior to Cardiac Arrest

Choukalas C.G., Galvan E.M, and Wallace A.W., University of California San Francisco

Telemetry-based Vital Sign Monitoring for Ambulatory Hospital Patients

Christina Orphanido et al, 31st Annual International Conference of the IEEE EMBS, Minneapolis, Minnesota, USA 2009

Monitoring the ill: Is this another measurement or will it change outcomes?

Critical Care Medicine – 2011 Vol. 39 No.1 Visensia Editorial

Visensia Index Predicts Life-saving Interventions in Pre-hospital Trauma Patients

Ayan Sen et al, Henry Ford Hospital, Detroit, MI

Predictive Value of an Automated Neural-Network-Based Early-Warning System for Detecting Early Signs of Physiological Deterioration in Hospitalized Patients

John Woods et al, Methodist Research Institute Inc, Clarian Health Technical Report - 2009

A review of current and emerging approaches to address failure to rescue

Anaesthesiology – 2011 Aug Vol. 115 No.2 Taenzer et al

Review of BioSign / Visensia by Dr Taenzer

Anaesthesiology - 2011 Sep. Tarassenko

Identifying ICU patients at high risk for cardiac arrest: a retrospective analysis of the Visensia algorithm

Choukalas C.G., Takemoto S, Stotts J, University of California San Francisco, March 2015

Single Centre Experiences

Implementation of a Rapid Response Team with Automated Event Detection and Early Warning

Lisbeth Votruba and Diane Wehby from Saint Mary's Health Care, A Member of Trinity Health, Grand Rapids, Michigan

Can the Visensia Index Score Predict Mortality in High risk Injured Patients?

Coba V, et. al, from the Department of Surgery, Henry Ford Hospital, Detroit, Michigan