

Early Detection Patient Monitoring

Published Papers

Comparing Continuous with Periodic Vital Sign Scoring for Clinical Deterioration Using a Patient Data Model

Peelen, R.V., Eddahchouri, Y., Koeneman, M. et al. J Med Syst 47, 60 (2023).

Can Early Warning Systems Enhance Detection of High-Risk Patients by Rapid Response Teams

Reardon PM, Seely AJE, Fernando SM, Didcote S, Strachan I, Baudino JL, Kyeremanteng K. J Intensive Care Med. 2021 May;36(5):542-549

Cardiorespiratory instability before and after implementing an integrated monitoring system

Hravnak M, Devita MA, Clontz A, Edwards L, Valenta C, Pinsky MR. Crit Care Med. 2011 Jan;39(1):65-72.

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

Hravnak M, Edwards L, Clontz A, Valenta C, Devita MA, Pinsky MR. Arch Intern Med. 2008 Jun 23;168(12):1300-8.

Integrated monitoring and analysis for early warning of patient deterioration

Tarassenko L, Hann A, Young D. Br J Anaesth. 2006 Jul;97(1):64-8.

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

Abstracts & Conference Papers

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

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.

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.

Abstracts & Conference Papers Continued...

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

Aggregate Vital Sign Monitoring Prior to Cardiac Arrest

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

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

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