

Publications

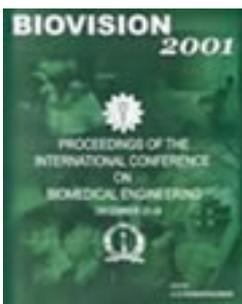
The use of ambulatory tonometric radial arterial wave capture to measure ambulatory blood pressure



D Nair, S-Y Tan, H-W Gan, S-F Lim, J Tan, M Zhu, H Gao, N-H Chua, W-L Peh and K-H Mak. The use of ambulatory tonometric radial arterial wave capture to measure ambulatory blood pressure: the validation of a novel wrist-bound device in adults. In Journal of Human Hypertension; 2008 March; p.220-222

Although ambulatory blood pressure (BP) monitoring provides a better guide to the management of hypertension, these devices are cumbersome and inconvenient, and therefore not widely used. HealthSTATS International (Singapore) developed a wrist-bound BP measurement device (BPro), which measures BP using arterial tonometry...

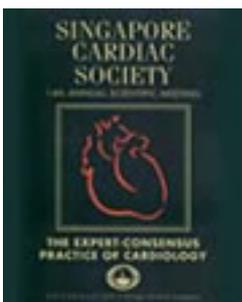
Diagnostic Blood Pressure Wave Analysis



Dasrao MS, Yeo J-H, Sim K-W. Diagnostic blood pressure wave analysis and ambulatory monitoring using a novel, non-invasive portable device. In: Ramakrishnan AG, editor. Proceedings of the International Conference on Biomedical Engineering; 2001 Dec 21–24; Bangalore, India. p. 267–272.

To record pressure from the radial artery non-invasively, a novel, wearable device labelled as MediWatch® has been designed. This device can record the pressure data continuously and can transmit on demand, to PC by cable, infrared or blue-tooth...

Clinical Evaluation of a Prototype Tonometric Blood Pressure Monitor



Sim K-W, Ting C-M, Yeo J-H, Peh W-L, Chua N-H, Bey L-H, Ng K-G. Clinical evaluation of a prototype tonometric blood pressure monitor by comparison with intra-arterial measurements. In: Abstract Book for the Singapore Cardiac Society 14th Annual Scientific Meeting; 2002 Mar 2–3; Singapore. p. 58.

The MediWatch® is a new BP monitor that measures BP using a tonometric sensor placed over the radial artery and strapped to the wrist. A simulation-based evaluation using a pressure waveform generator has demonstrated that the sensor is capable of capturing...

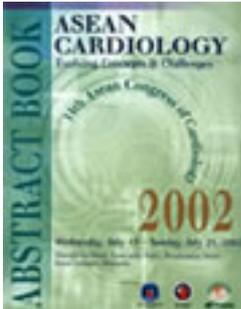
Performance of a New Tonometric Blood Pressure Monitor - The MediWatch



Ting C-M, Peh W-L, Chua N-H, Bey L-H, Ng K-G, Yeo J-H, Sim K-W. Performance of a new tonometric blood pressure monitor — the MediWatch. In: Abstract Book for the 5th Annual NTU-SGH Biomedical Engineering Symposium; 2002 Apr 25; Singapore. p. 26–27.

The use of ambulatory blood pressure monitor (ABPM) in the diagnosis and treatment of hypertension has gained tremendous significance in recent years. Most ambulatory monitors use an occlusive cuff that can cause discomfort for the patient and disturb...

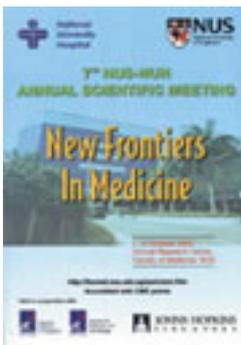
Performance of a Prototype Tonometric Blood Pressure Monitor Under Stationary Conditions



Ng K-G, Ting C-M, Yeo J-H, Sim K-W, Peh W-L, Chua N-H, Bey LH. Performance of a prototype tonometric blood pressure monitor — the MediWatch — under stationary conditions. In: Abstract Book for the 14th ASEAN Congress of Cardiology. 2002 Jul 17–21; Kuala Lumpur, Malaysia. p. 182.

Performance of a Prototype Tonometric Blood Pressure Monitor (MediWatch) Under Stationary Conditions. The MediWatch, is a non-invasive blood pressure (NIBP) monitor based on arterial tonometry at the radial artery. The objective of this study was to evaluate a MediWatch prototype (MW-1) against simulator and against intra-arterial measurements under stationary conditions...

Progress on the Development of the MediWatch™



Aye WMM, Ng K-G, Ting C-M, Yeo J-H, Peh W-L, Chua N-H, Chua N-K, Kwong F, Tan CTT, Shan YH, Sim EKW. Progress on the development of the MediWatch™ tonometric continuous non-invasive blood pressure monitoring. In: Abstract Book for the 7th NUS-NUH Annual Scientific Meeting: New Frontiers in Medicine; 2003 Oct 2–3; Singapore. p. 86.

The MediWatch™ (MW) is the wrist-mount non-invasive blood pressure monitor designed to capture the radial pulse waveform using arterial tonometry. It is able to provide continuous blood pressure measurements...

Progress on the development of the MediWatch ambulatory blood pressure monitor



Ng K-G, Ting C-M, Yeo J-H, Sim K-W, Peh W-L, Chua N-H, Chua N-K, Kwong F. Progress on the development of the MediWatch ambulatory blood pressure monitor and related devices. Blood Pressure Monitoring 2004; 9(3):149–165 [erratum in 2004; 9(6): 327].

Progress on the development of the MediWatch ambulatory blood pressure monitor and related devices. The MediWatch is a wrist-mounted noninvasive blood pressure monitor designed to capture the radial pulse waveform using arterial tonometry and yield blood pressure measurements when the waveform is calibrated. An early prototype of this monitor...