



BioPharmica Limited

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CORTICAL DYNAMICS ANESTHETIC MONITORING DEVICE AS FEATURED ON ABC'S CATALYST PROGRAM NOW AVAILABLE FOR VIEWING ON BIOPHARMICA'S WEBSITE...

The Brain Anaesthesia Response (BAR) index monitoring system which is being developed by BioPharmica's investee, Cortical Dynamics was featured on the ABC Catalyst program.

If you missed the program or would like to view it again you can from the BioPharmica Website <http://www.biopharmica.com.au/drugmonitoring.html> then click on the ABC Catalyst link.

Acknowledgement:

'BAR Monitor', first broadcast on Catalyst on 3 May 2007, is reproduced by permission of the Australian Broadcasting Corporation and ABC Online. (c) 2007 ABC. All rights reserved. A full transcript is also available at: <http://www.abc.net.au/catalyst/stories/s1913612.htm>

The following is an excerpt from the ABC Catalyst Website

Stay Asleep – a new anaesthesia monitor. Imagine you're lying on an operating table undergoing surgery but before it's over, you wake up. It's not a pleasant thought but it can happen. Up to one in 1000 people become aware during surgery, and in rare cases up to 1 in 100. A few years ago, a new monitor was released that could decrease the incidence dramatically, but it did little for the 20 per cent of people who suffer serious nausea and vomiting after surgery. Now a new Australian invention, based on some serious mathematical analysis of brain waves, looks set to not only stop people waking up during surgery, but may prevent the serious and, far more common, side effects of too much anaesthetic.

Reporter: Maryanne Demasi
Producer: Belinda Gibbon
Researcher: Ruth Beran

The program features an interview with inventor David Liley, who is an Associate Professor in Brain Dynamics in the Brain Sciences Institute at Swinburne University of Technology.

Cortical Dynamics Overview

Cortical Dynamics is working with BioPharmica Limited (ASX: BPH) and Swinburne University of Technology (SUT) to commercialise and develop the Brain Anaesthesia Response (BAR) index monitoring system. The BAR Monitor is designed to detect and record the electrical activity of the human brain in order to assist anaesthetists to keep patients optimally anaesthetised during surgery. This brain activity monitor also has potential in neuro-diagnostic applications, including the detection of the early onset of neurodegenerative diseases such as Alzheimer's and Parkinson's, and in drug monitoring associated with these conditions.

Market

The depth of anaesthesia market is predicted to be worth US\$750 million by 2008.

Clinical Trials

A pilot trial at Royal Melbourne Hospital (RMH) tested the sensitivity of the BAR Monitor. The results of the 60-patient study indicated that the BAR index is superior in quantifying brain function compared to current approaches.

One critical discovery was that the BAR index could measure both brain state and input, something that other brain function monitors cannot do separately.

A second pilot trial at RMH, that utilises the BAR Monitor in patients given opioids as anaesthetic agents, is currently underway in order to extend the validation of the monitor. The National Health and Medical Research Council (NHMRC) in Australia will be supporting a sequence of trials that will take place during 2008 at various Australian hospitals.

Enquires regarding the BAR index monitoring system can be referred to the following:

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