Improving the quality of life for people in pain through novel, cost effective pain assessment tools

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Launch of IBM Case Study - showcasing ePAT Technologies Mobile Apps

ePAT Technologies is working with IBM and nViso to develop a smartphone-based Medical App that uses artificial intelligence (AI) and cloud based computing to assess pain levels and helping patients get the care they need.

An IBM sponsored case study explains how these three best in class companies are collaborating to develop this Medical App that is simple and effective to use and provides improvement of chronic pain management**.**

This case study is now live on IBM.com and can be accessed by following this link to the company's website:

http://www.epattechnologies.com

ePat was selected by IBM for this case study as a leading example of how novel cloud based Medical Apps can be developed to deliver better patient care.

"The significance to ePAT is that it is working with world best in class in AI from nViso and Cloud based computing from IBM to develop its medical App solutions - and this case study is a recognition of that collaboration," said ePAT Managing Director, Mr Philip Daffas.

"Our goal is to make pain management as easy and user-friendly as possible and collaborative partnerships between companies such as ePAT, nViso and IBM are essential to make this happen" he added.

About ePAT:

ePAT Technologies Limited is an Australian based company which is developing mobile medical applications that are intended to provide pain assessment for individuals that are unable to communicate verbally with their carers.

The ePAT business:

The ePAT business has evolved from research undertaken by Curtin University in Western Australia over the past 3 years. ePAT now owns the intellectual property resulting from Curtin University's research on the ePAT Apps.

ePAT's technology, a mobile application (**ePAT App**), uses cameras in

smartphones and tablets to capture a brief video of the person, which is analysed in real time using facial recognition software to detect the presence of facial micro-expressions that are indicative of the presence of pain. This data is then combined with other indicators of pain, such as vocalisations, behaviours and movements captured through the ePAT App to calculate a pain severity score.

Due to its ease of use and its reproducibility, it is intended that the ePAT App will be able to be used in the first instance to detect and measure a person's pain, and then further measurements can be used to monitor the effectiveness of pain management provided to the person.

The ePAT App is being developed and will be rolled out globally in two phases: first, the ePAT App for Dementia for persons who have lost the ability to communicate with their carers, and the second, the ePAT App for Children who have not yet learnt to speak.

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