

2 July 2019

PainChek® partners with the Melbourne Murdoch Children's Research Institute (MCRI) for Infant App *PainFaces* Study

Highlights:

- **Largest child health research institute in Australia, and one of top three worldwide, to clinically test a version of the PainChek® App for infants;**
- **PainChek® Infant *PainFaces* study will be led by Professor Franz Babl (MCRI) and Associate Professor Di Crellin (MCRI) in the Emergency Department (ED) of the Royal Children's Hospital;**
- **In this new study, which is expected to commence within days, the pain scores derived using the PainChek® Infant App will be compared to those obtained using observational children's pain assessment tools by two independent assessors in approx. 100 infants undergoing painful procedures within the ED;**
- **Results and lessons from the research will support applications for regulatory approval of PainChek® Infant's App with the Therapeutics Goods Administration (TGA), CE Mark, Europe, and the Food and Drug Administration (FDA) in the USA.**

PainChek Ltd (ASX: PCK) ("PainChek" or "the Company"), developer of the world's first smart phone-based pain assessment and monitoring application, is pleased to advise it will collaborate with Murdoch Children's Research Institute (MCRI), to clinically test a version of the PainChek® App for infants.

The Murdoch Children's Research Institute (MCRI) is the largest child health research institute in Australia and one of the top three worldwide. Its team of more than 1200 researchers are dedicated to making discoveries to prevent and treat childhood conditions. It works alongside campus partners The Royal Children's Hospital and The University of Melbourne to form the Melbourne Children's; a world-class children's hospital campus incorporating clinical care, research and teaching.

The PainChek® Infant *PainFaces* study will be led by Professor Franz Babl (MCRI) and Associate Professor Di Crellin (MCRI) in the Emergency Department (ED) of the Royal Children's Hospital, Melbourne.

Lead researcher on the project Associate Professor Crellin has recently evaluated the validity and reliability of two observational children's pain assessment tools, the Face, Legs, Activity, Cries and Consolability (FLACC) scale and the Modified Behavioural Pain Scale (MBPS), in assessing procedural pain in the ED.

In this new study, which is expected to commence within days, the pain scores derived using the PainChek® Infant App will be compared to those obtained using the FLACC by two independent assessors in approx. 100 infants undergoing painful procedures within the ED.

On the commencement of the study PainChek® Chief Scientific Officer, Professor Jeff Hughes, commented, “The company is excited to be working with researchers from the world renowned MCRI. Children who present to the ED often have underlying pain or need to go through painful medical procedures. The PainFace study will be looking to validate PainChek® as an accurate pain assessment tool that helps clinicians in the ED improve the quality of pain management for these vulnerable children”

The results and lessons from this research will support applications for regulatory approval of PainChek® Infant’s App with the Therapeutics Goods Administration (TGA), CE Mark, Europe, and the Food and Drug Administration (FDA) in the USA.

About the PainChek® Adult App

The PainChek® Adult App is clinically validated¹ and regulatory cleared² technology that uses automated facial recognition and analysis to identify, quantify and monitor pain in adults that are unable to verbalise their pain.

The PainChek® Adult is under annual contracts covering more than 80 aged care facilities which are in the process of being implemented across Australia helping to better assess pain severity levels for residents living with dementia and cognitive impairment.

In the past few months the Australian Federal Government announced it will invest \$5M to facilitate the implementation of the company’s pain recognition app in Australian Aged Care Facilities³. The Company has also entered the UK market through a distribution agreement with leading Aged Care software provider Person Centred Software⁴.

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1. Atee M, Hoti K, Hughes JD. A Technical Note on the PainChek™ System: A Web Portal and Mobile Medical Device for Assessing Pain in People With Dementia. *Front Aging Neurosci.* 2018 Jun 12;10:117. doi: 10.3389/fnagi.2018.00117. eCollection 2018.
 2. PainChek Adult App has TGA and CE Mark regulatory clearances as a Class 1 Medical Device
 3. ASX release dated 29 April 2019
 4. ASX release dated 27 May 2019

About PainChek®

PainChek® Ltd is an Australian based company that develops pain assessment technologies.

PainChek® is a smart-phone based medical device using artificial intelligence to assess and score pain levels in real time and update medical records in the cloud.

PainChek® records a short video of the person's face and analyses the images that indicate pain and records them.

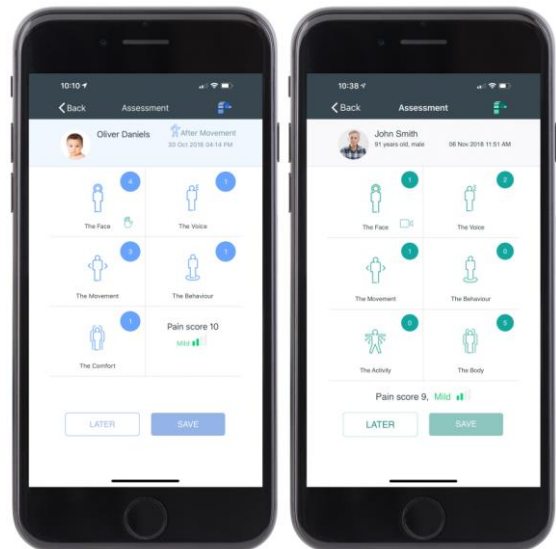
Next, the caregiver uses PainChek® to record their observations of other pain related behaviours that complete the assessment. Finally, PainChek® calculates an overall pain score and stores the result allowing the caregiver to monitor the effect of medication and treatment over time.

PainChek® is being rolled out globally in two phases: first, PainChek® for adults who are unable to effectively verbalise their pain such as people with dementia, and second, PainChek® for Children who have not yet learnt to speak.

To find out more, visit
www.painchek.com



PainChek® artificial intelligence assesses facial micro-expressions that are indicative of the presence of pain.



PainChek® domains of pain assessment that calculates pain severity score.

About MCRI:

Murdoch Children's Research Institute (MCRI) is the largest child health research institute in Australia committed to making discoveries and developing treatments to improve child and adolescent health in Australia and around the world.

MCRI is pioneering new treatments, trialling better vaccines and improving ways of diagnosing and helping sick babies, children and adolescents. It is one of the only research institutes in Australia to offer genetic testing to find answers for families of children with previously undiagnosed conditions.

Website: www.mcri.edu.au