

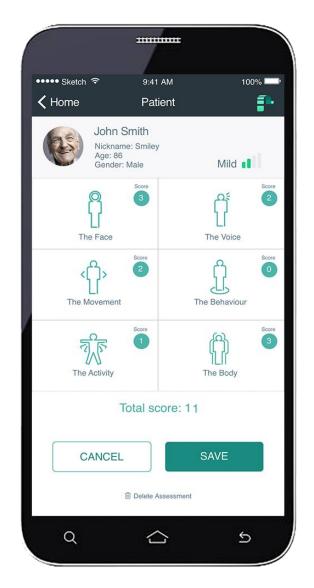
Intelligent Pain Assessment

Investor Presentation Update May 2018

PainChek Ltd

Highlights

- A digital healthcare company
- First to global market mobile app to assess and monitor pain
 - pain the most common reason to see a doctor
 - accurate pain assessment is a big problem
- Very large global market opportunities
- Multiple products and revenue channels
- Innovative technology with patent protection
- Commercialisation commenced in Q4 2017
- Experienced board and management





Our Why

Our purpose is to give a voice to people who cannot verbalise their pain

Our Target Markets

Carers of non-communicative people with pain:

- Dementia sufferers
- Pre-verbal children





The pain problem in dementia care

- Up to 85% of people in aged care suffer pain regularly¹
- More than 50% of people in Australian aged care have dementia²
- Pain is often poorly assessed, documented, monitored and managed
- Tools are subjective and manually based
- Adverse impact on quality of care, operational efficiency and compliance





¹ Aged Care Awareness

² Australian Govt. Dept. of Health data at 30 June 2015

Evolution of Pain Assessments in Dementia

Table 1 Common pain behaviors in cognitively impaired elderly persons according to the AGS Panel on persistent pain in older persons¹⁸

. Facial expressions Slight frown; sad, frightened face

Grimacing, wrinkled forehead Closed or tightened eyes Any distorted expression

Rapid blinking

Verbalizations, Sighing, moaning, groaning vocalizations Grunting, chanting, calling out

Noisy breathing Asking for help Verbally abusive

3. Body movements Rigid, tense body posture, guarding

Fidgeting

Increased pacing, rocking Restricted movement Gait or mobility changes

Changes in interpersonal Aggressive, combative, resisting care interactions
 Decreased social interactions

Decreased social interactions Socially inappropriate, disruptive

Withdrawn

5. Changes in activity Refusing food, appetite change patterns or routines Increase in rest periods

Increase in rest periods Sleep, rest pattern changes

Sudden cessation of common routines Increased wandering

Increased confusion Irritability or distress

2002





Pain Assessment IN Advanced Dementia PAINAD

	0	1	2	Score
Breathing Independent of vocalization	Normal	Occasional labored breathing. Short period of hyperventilation	Noisy labored breathing. Long period of hyperventilation. Cheyne-stokes respirations	
Negative Vocalization	None	Occasional moan or groan. Low level speech with a negative or disapproving quality	Repeated troubled calling out. Loud moaning or groaning. Crying	
Facial expression	Smiling, or inexpressive	Sad. Frightened. Frown	Facial grimacing	
Body Language	Relaxed	Tense. Distressed pacing. Fidgeting	Rigid. Fists clenched, Knees pulled up. Pulling or pushing away. Striking out	
Consolability	No need to console	Distracted or reassured by voice or touch	Unable to console, distract or reassure	
				TOTAL

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Abbey Pain Scale

For measurement of pain in people with dementia who cannot verbalise

Q1. Vocalisation (eg whimpering, groaning, crying)

Absent 0 Mild 1 Moderate 2 Sev

Q2. Facial expression (eg looking tense, frowning, grimacing, looking frightened)

Absent 0 Mild 1 Moderate 2 Severe 3

Q3. Change in body language (eg fidgeting, rocking, guarding part of body, withdrawal)

Absent 0 Mild 1 Moderate 2 Severe 3

Q4. Behavioural change (eg † confusion, refusing to eat, alteration in usual pattern)

Absent 0 Mild 1 Moderate 2 Severe 3

Q5. Physiological changes (eg temp, pulse BP outside normal limits, perspiring, flushing, pallor)

Absent 0 Mild 1 Moderate 2 Severe 3

Q6. Physical changes (eg skin tears, pressure areas, arthritis, contractures)

Absent 0 Mild 1 Moderate 2 Severe 3

Tick the box that matches the

total pain score

0-2 3-7 7-13 14+

0-2 3-7 7-13 14+ Chronic Acute on Chronic Severe Severe Severe Acute on Chronic Severe Severe

Tick the box that matches the

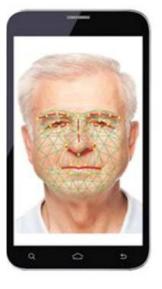
Total pain score

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PainChek™

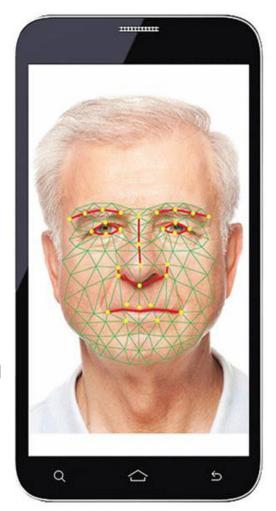
2017





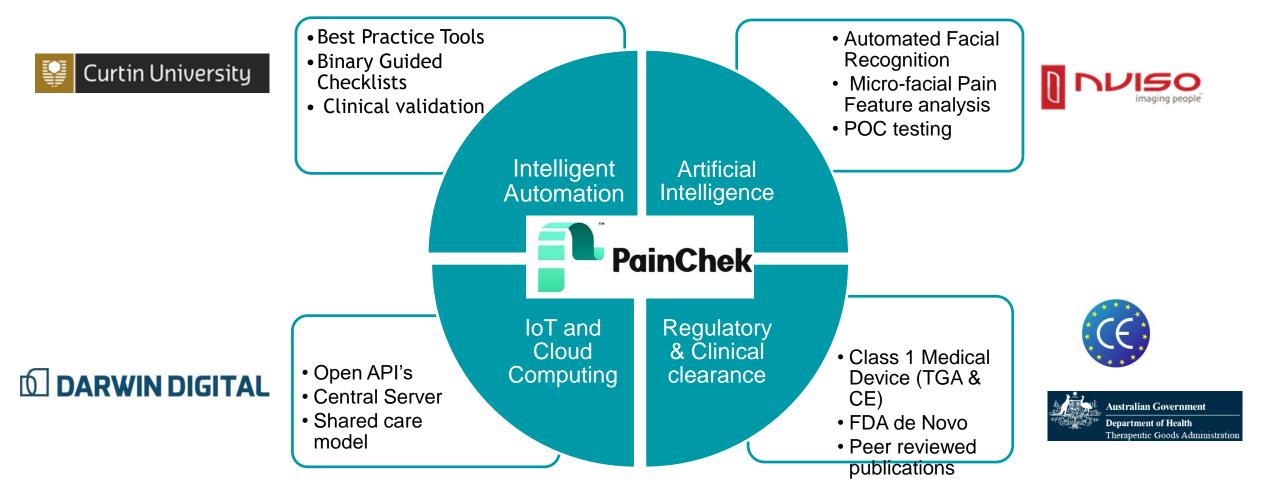
The PainChekTM solution

- A secure, validated, medical device in the form of a mobile app
- Uses existing smartphone and tablet hardware
- Artificial Intelligence (AI) technology to analyze facial expressions indicative of pain in real time





PainChek™: Software as a Medical Device







Philip Daffas CEO & Managing Director, MBA, BSc

Philip is a highly accomplished global business leader and people manager with an international career spanning more than 25 years with leading blue-chip healthcare corporates. Philip has held senior global leadership positions with Cochlear and Roche in Europe, US and Australia.



Scott Robertson
Chief Technology Officer, MBA, B.Eng.
(Comp. Systems)

Scott has over 25 years' experience designing, deploying and managing enterprise software systems. He mostly worked in private enterprises, where adapting to changing client needs, markets directions and government regulations were paramount to commercial success.



Prof. Jeff Hughes Chief Scientific Officer PhD, MPS

Jeff is a professor in the School of Pharmacy, Curtin University in Western Australia. Jeff served as the Head of the School of Pharmacy of Curtin University, from March 2009 to May 2014. Jeff is one of the team who developed the PainChek™ concept.



David Allsopp Head of Business Development ANZ

David joins us with 15 years' experience in the account management, relationship management and business development space. Ten of those spent in the aged care sector with market leaders Healthstrong and Mirus. He is renowned for establishing trusting, transparent and long-standing relationships in the healthcare space.



Mustafa Atee Research Scientist MPS, PhD (candidate)

Mustafa is a clinical, community and academic pharmacist and he has managed a number of community pharmacies in Western Australia. The PainChek™ concept was born out of his PhD research. His PhD research has been supported by both a grant and an academic scholarship from Alzheimer's Australia.



Dawn Kerr Senior Clinical Specialist

Dawn has 16 years' nursing experience. She completed her nurse training at West of Scotland University in Glasgow, where she graduated with a BSc in Adult Nursing. Dawn joins PainChek™ with an extensive knowledge in the area of pain management nursing. Patient orientated in providing care, Dawn believes pain management is of paramount importance in any care facility.





PainChek™ staggered market entry strategy - current access to 40% of the global market

1

Australia/NZ 2017/18

2

International Expansion 2018/19

3

US entry 2019/20

Goal: Establish sales, business model and clinical utility data in ANZ

Focus: RAC priority, HCP and Consumer markets

Distribution: Direct Operation established and local partners

Regulatory: TGA clearance received in 2017

Global market access: 3-4%

Goal: Expand into international markets using ANZ experience

Focus: Europe and other CE Mark countries

Distribution: Establish overseas presence and local distributors (including Australian partners with overseas operations).

Regulatory: CE mark clearance 2017

Global market access: 35-40%

Goal: Extend into US market post

FDA clearance

Focus: RAC, HCP and Consumer

segments

Distribution: Establish US presence

and local partners

Regulatory: FDA de Novo clearance

projected in 2019

Global market access: 70%



PainChek™ benefits impact all key decision makers

Clinical Utility

- Improve quality of life
- Reduce rates and severity of behavioural and psychological symptoms
- Reduce rates of incorrectly prescribed antipsychotics
- Improve staff retention

Cost benefit

- Point of Care testing
- Automated documentation
- Eliminate double handling of data
- Reduce labour time to focus on care



- Addresses pain assessment requirements for accreditation and audit standards
- Accurate pain classification for the Aged Care Funding Instrument (ACFI)





Clinical acceptance of PainChek™ continues to increase

- 1000 + PainChek clinical assessments in RAC setting and Dementia Support Australia
- Two peer reviewed publication with three new publications in process
- PainChek current clinical presentations
 - 1. DTA invitational talk, Perth April 2018
 - 2. Aged Care IT, Sydney April 2018
 - 3. HammondCare Dementia conference, Sydney 7-8th June 2018
 - 4. 2nd Palliative, Aged and Dementia CareForum, Melbourne 3rd-5th July 2018
- Invitation to German Pain Society conference & research collaboration with UK University College London (UCL)

- PCK has the potential to become a standard in clinical care
- Global recognition of clinical performance data
- Strong local brand recognition
- PCK becoming perceived as pain "thought leader"
- Support from peak Government bodies (Dementia Support Australia, Dementia Training Australia and Pain Australia) 13



PainChek™ Case Study 1 PainChek™ Case Study 2

- 84 year old male
- Referred with physical aggression during care
- Pain suspected to be impacting on behaviour
- PainChek™ indicated severe pain & GP prescribed pain relief therapy
- Result: Significant reduction in physical aggression

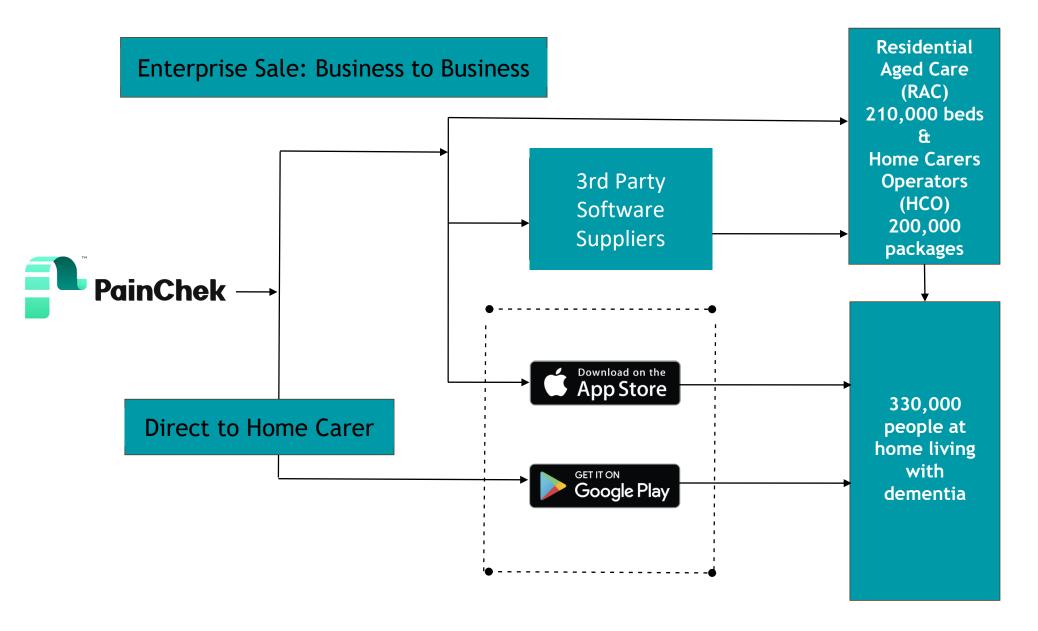
- 72 year old female
- Referred with agitated behaviour, restless at night
- Pain suspected to be impacting on behaviour
- PainChek indicated moderate pain & care plan updated to include regular analgesia
- Result: Rapid change in behaviour and family satisfaction



PainChek™ provides Carers with the information needed to change treatment

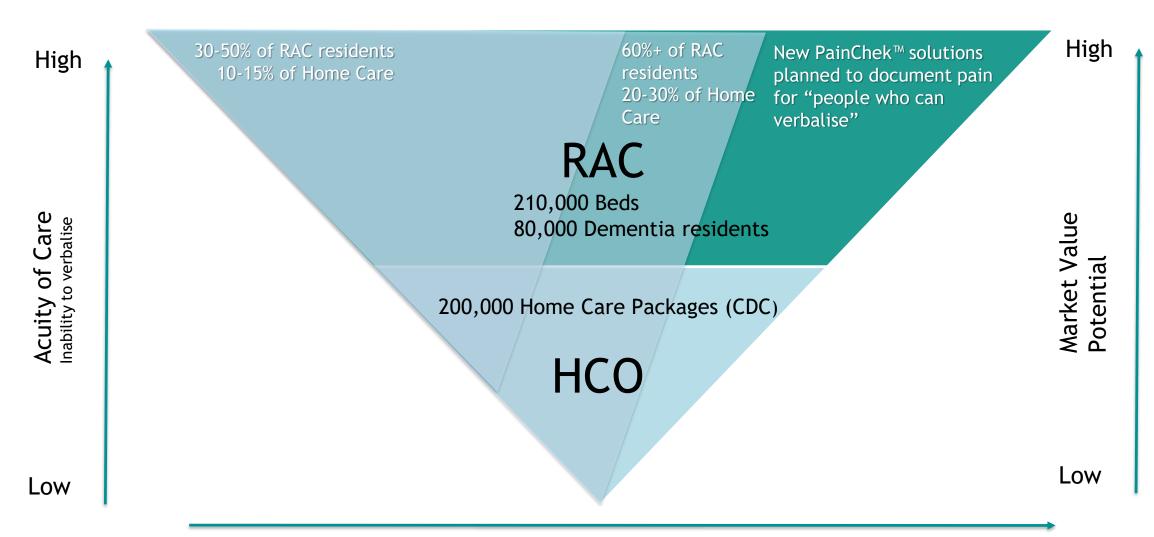


PainChek™ <u>Australia Dementia</u> App Market Strategy



The "not for profit" RAC providers also supply the majority of Home Care Packages

PainChek™ can become the Universal Pain Assessment tool - initially within Aged Care



RAC market continues to consolidate as 1% of the Providers own 26% of the total facilities

Providers	Number of facilities (RACs)	Percentage of (RAC) market facilities
Uniting Care Total*	185	6.9%
Southern Cross Total*	88	3.3%
Opal Aged Care	72	2.7%
Bupa Aged Care	71	2.7%
Estia Health	69	2.6%
Regis	54	2.0%
Allity	44	1.6%
Japara Healthcare	43	1.6%
Catholic Healthcare*	41	1.5%
RSL Lifecare*	31	1.2%
Sub Total	698	26.11%
Market Grand Total	(949 Providers with a total of 2673 facilities)	100%



Residential Aged Care Market Progress

Australia residential aged care market

- 949 RAC providers
- 2673 RACs (Residential Aged Care facilities)
- Total of 210,000 beds

PainChek ™ existing business:

- 3 RAC providers with existing PainChek™ licensing agreements
- Dementia Support Australia (DSA) agreement extended into FY'19

PainChek™ new commercial opportunities:

- 30 providers (3.16% of the market)
- 332 RACs (12.42% of the market)
- Total of 32,706 beds (15.57% of the market)

The current range of potential clients include a number of small, medium and large RAC providers - including 5 of the top 11 largest providers



^{*}Data source Australian Govt Dept of Health

PainChek™ building a cost effective Enterprise Business Model

Pre-Sales

On-Boarding

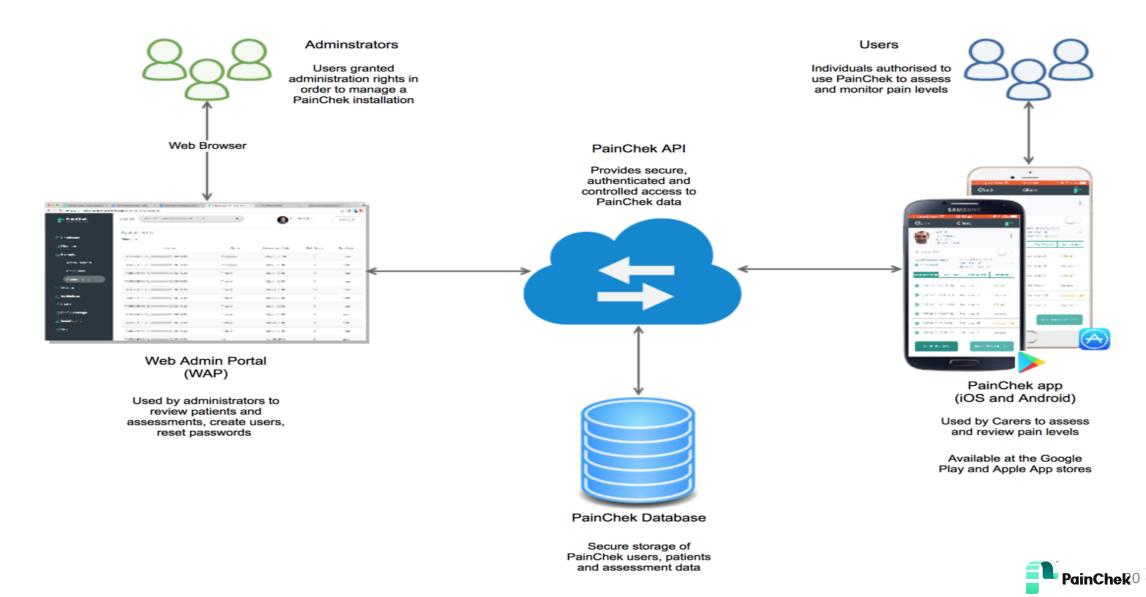
Post-Sales Support

- Key Account
 Management
 relationships in place
- Business Case Analysis
- On-site demonstration
- Product trials (4-6 weeks) if required

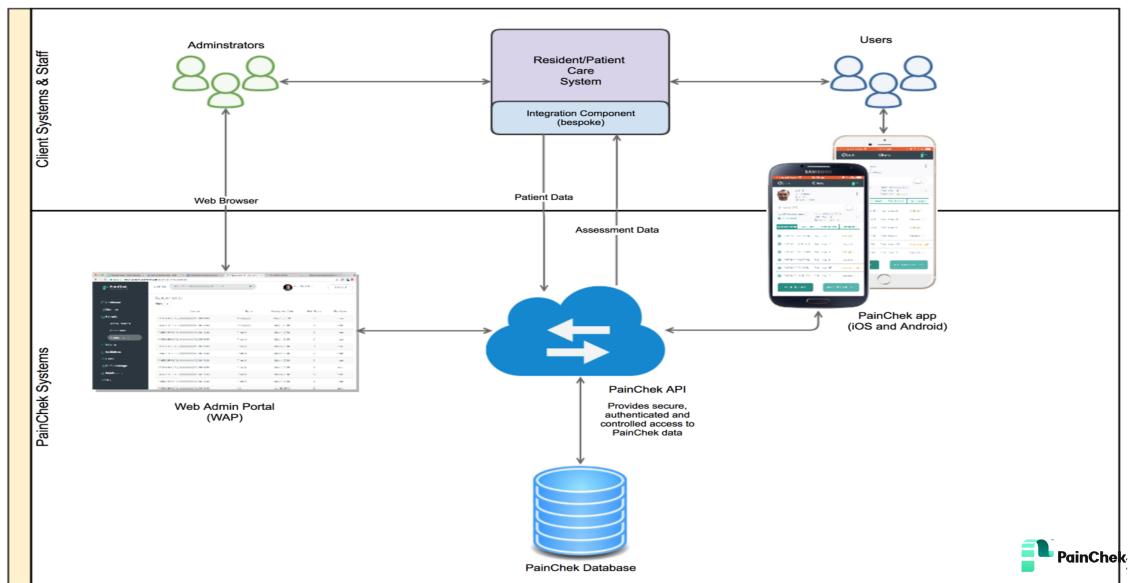
- License agreements: recurring monthly subscriptions based on #beds/residents
- PCK download via Apple/Google Stores
- 1-2 hour on-site clinical training
- On-line video training tools (built with Dementia Training Australia and Dementia Support Australia)

- Portal based pain assessment reports
- CustomerSatisfaction Scores
- Technical and Clinical on-line support
- Option for follow up training
- Sales Cycle to date ranges from 1-4 weeks up to 3+ months for more complex accounts
- License agreements range from one to three years

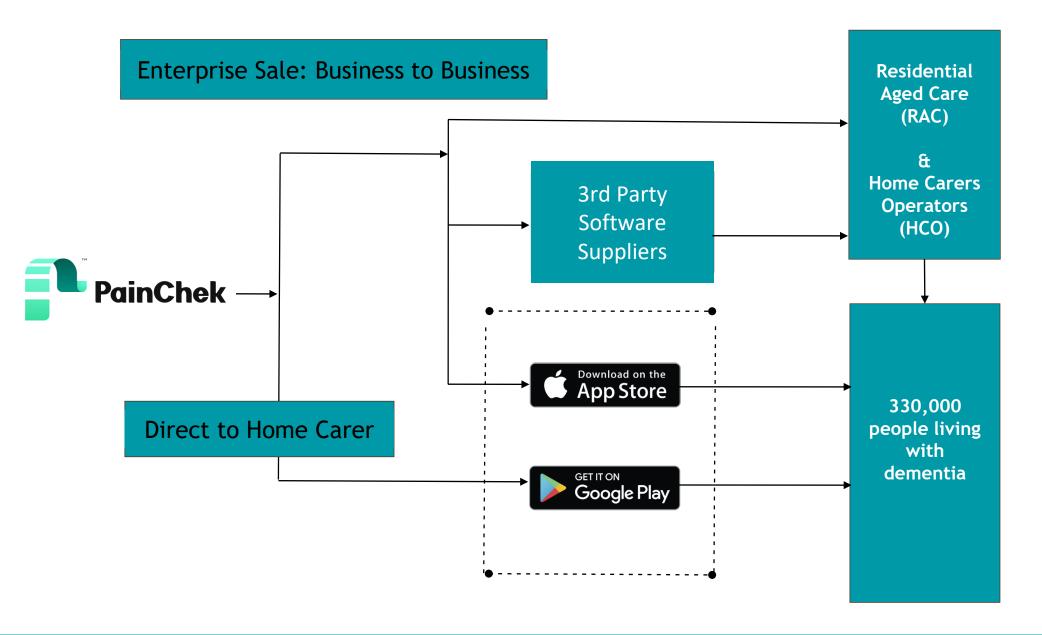
PainChek™ secure automated resident data exchange



PainChek ™ integrates seamlessly into client patient care systems



PainChek™ Australia Dementia App Market Strategy



The "not for profit" RAC providers also supply the majority of Home Care Packages

Direct to Home Carer Opportunity

Majority of people living with Dementia live at home

 Government drive towards home care included Consumer Directive Care (CDC) initiative

PainChek™ Direct to Carer App scheduled for Q3 2018

Carers of people with dementia

Healthcare Professionals
Trained Carers
Allied Health
Family Members

47 Million with Dementia¹

• growing at 3% p.a.

7,500,000 people in Western Europe 6,000,000 people In North America 400,000+ people in Australia²





¹ World Alzheimer Report 2016

² Alzheimer's Australia Key Facts and Statistics 2017

Blue sky market is pre-verbal children

- Neonates (0-1 month), infants and toddlers (1 month 3 years)
- Sources of pain include: rashes, teething, middle ear infections, headaches, gastro-intestinal.
- Current pain assessments are often subjective and based on intuitions, assumptions and personal beliefs

Carers of pre-verbal children

Mums & Dads
Grandparents
Health care professionals
Nannies
Babysitters
Day care workers

~ 130 million¹
Births per year in world

~ 1.25 million²

0-3 year olds in Australia

~ total of 400 million

0-3 year olds worldwide



¹ http://www.ecology.com/birth-death-rates

² ABS 2016

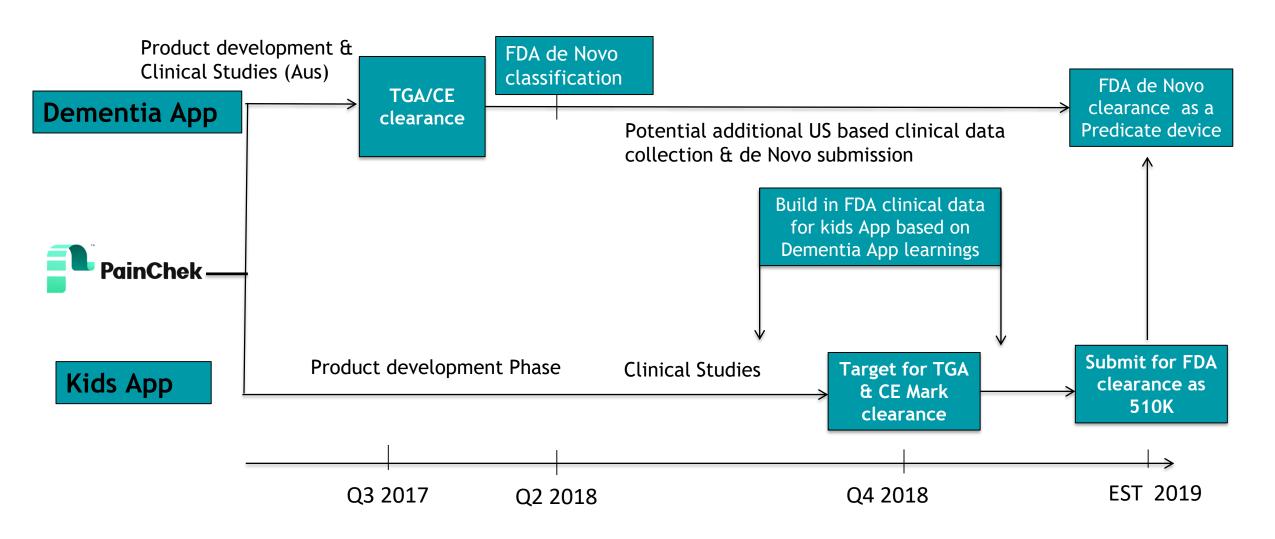
Children's App commercialisation Update

- Children's video Images and library now complete
- Prototype infants
 App (0-1 years)
 scheduled for
 Clinical studies
 and regulatory
 work Q2-Q4 2018
- Infant App regulatory clearance scheduled for Q4 2108 in Australia
- Toddlers (1-3
 years) and
 Children's (4
 years to 12 years)
 Apps to follow in
 2019





Regulatory: Dementia App FDA de Novo clearance can act as a predicate for the Kids App



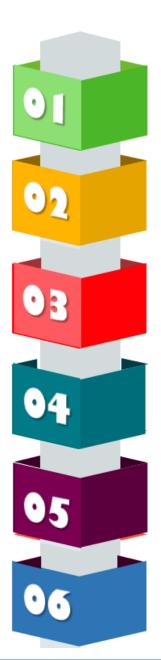
PainChekTM Patent Status

- Patent clearance for PCT filing received in August 2016
- National filings commenced Feb 2017 in all key global markets;
 - Europe
 - US
 - Australia
 - China
 - Japan

PATENT COOPERATION TREATY From the: INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY PCT NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY Dr Andreas Hartmann (Chapter II of the Patent Cooperation Treaty) GRIFFITH HACK Level 19, 109 St Georges Terrace (PCT Rule 71.1) Perth, Western Australia 6000 Australia Date of mailing (day/month/year) 08 August 2016 Applicant's or agent's file reference IMPORTANT NOTIFICATION P96779.PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/AU2015/000501 18 August 2015 18 August 2014 Applicant ELECTRONIC PAIN ASSESSMENT TECHNOLOGIES (EPAT) PTY LTD 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application. 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translations to those Offices.



PainChekTM Key Milestones



Dementia App

Q4 2017

First commercial sales achieved in Q3 & Q4 2017

Q1 2018 Built Australian commercial team to execute on sales IOS and Android Apps completed

Q1-2 2018

Established sales pipeline and pilot trials in Residential Aged Care settings
DSA nationwide roll out & integration

Q2 FDA de Novo classification
Q2/Q3 Australian Pilots transitioning to
commercial agreements

Q3-Q4 2018

European and International market expansion (CE mark countries)

2019

Consolidation of Australian & European business – recurring revenue stream FDA De Novo clearance & commercialization

Pre-Verbal Children Apps

Q4 2017

Completion of children video library, data model and algorithm – on track

Q1-2 2018

Development of App

Q3-Q4 2018

Clinical studies and validation work

Q3 -Q4 2018

Finalise App and build regulatory file for approvals

Q4 2018

Target for regulatory approval in Australia and EU followed by market launch

2019

Target for FDA clearance as 510K



Financial Update

- Current shares on issue: 834,134,587
- Market cap undiluted at 6.2c = \$52m
- Market Cap fully diluted at 6.2c = \$62m
- Unlisted Options on issue: 175,167,730
- Fully diluted capital:1,009,302,317
- Cash at bank: 31st March 2018: \$4m



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