



# Power of Integrations

Client  
Management  
System



Best of Breed  
Partners like  
PainChek

Holistic  
Care

PainChek®

Giving a voice  
to people that  
cannot  
verbalise pain



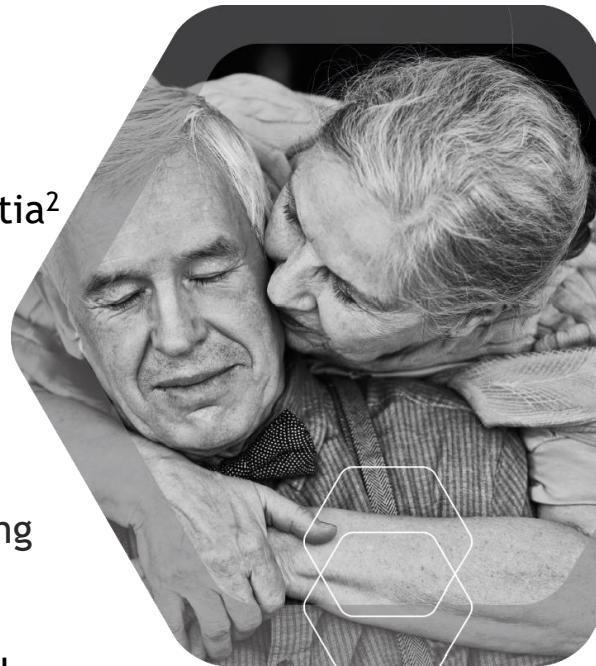
# THE CHALLENGE OF MANAGING PAIN FOR PEOPLE WITH DEMENTIA

## Pain is common

- Up to 80% of people in aged care experience chronic pain<sup>1</sup>
- More than 50% of people in Australian aged care have dementia<sup>2</sup>
- 47 Million globally living with Dementia<sup>3</sup> growing at 3% p.a.

## But pain often goes undetected and untreated<sup>1</sup>

- Pain is difficult to assess
- Tools to assess pain are often not used or use subjective rating scales
- Adverse impact on quality of care, operational efficiency and compliance



<sup>1</sup> Aged Care Awareness

<sup>2</sup> Australian Govt. Dept. of Health data at 30 June 2015

<sup>3</sup> World Alzheimer's report 2016

# 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 persons<sup>10</sup>

1. Facial expressions	Slight frown, sad, frightened face Grimacing, wrinkled forehead Closed or tightened eyes Any distorted expression Rapid blinking
2. Verbalizations, vocalizations	Sighing, moaning, groaning 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
4. Changes in interpersonal interactions	Aggressive, combative, resisting care Decreased social interactions Socially inappropriate, disruptive Withdrawn
5. Changes in activity patterns or routines	Refusing food, appetite change Increase in rest periods Sleep, rest pattern changes Sudden cessation of common routines Increased wandering
6. Mental status changes	Crying or tears Increased confusion Irritability or distress

2002

AGS

2003

## Pain Assessment IN Advanced Dementia PAINAD

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

The content property for the Abbreviated PAINAD Scale is provided by the New York University School of Medicine. All rights reserved. Reproduction for clinical use only. All other content is the property of the AGS Panel on Persistent Pain in Older Persons. All rights reserved.

## Abbey Pain Scale

For measurement of pain in people with dementia who cannot verbalize

Q1. Vocalization (sighing, moaning, crying, etc.)	Altered 1	Mild 1	Moderate 2	Severe 3	
Q2. Facial expression (looking tense, frowning, pinching, looking frightened)	Altered 1	Mild 1	Moderate 2	Severe 3	
Q3. Change in body language (fidgeting, rocking, pacing, posturing, withdrawn)	Altered 1	Mild 1	Moderate 2	Severe 3	
Q4. Behavioral change (agitation, confusion, refusing to eat, alertness to usual pattern)	Altered 1	Mild 1	Moderate 2	Severe 3	
Q5. Physiological change (temp, pulse BP outside normal limits, perspiring, flushing, pallor)	Altered 1	Mild 1	Moderate 2	Severe 3	
Q6. Physical change (skin tears, postures, aches, contractures)	Altered 1	Mild 1	Moderate 2	Severe 3	
					Total pain score

Also: Tap the box that matches the total pain score

0-2 No pain 3-5 Mild 6-8 Moderate 9-14 Severe

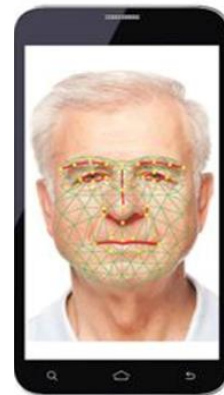
Also: Tap the box that matches the type of pain

Chronic Acute Chronic/acute

2004

PainChek®

2017



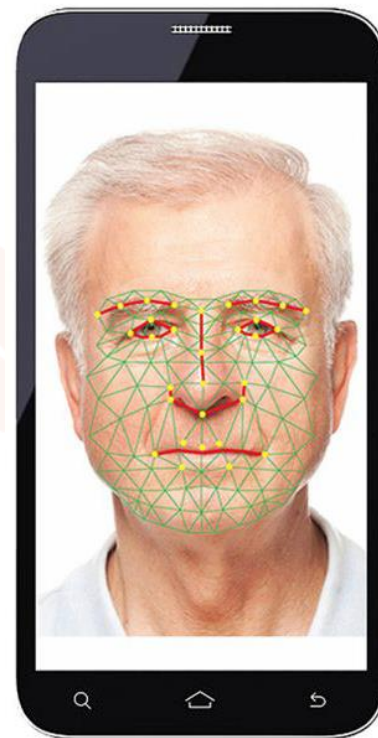


# The PainChek® solution

A secure, validated, **medical device** in the form of a mobile app

Uses existing smartphone and tablet hardware<sup>1</sup>

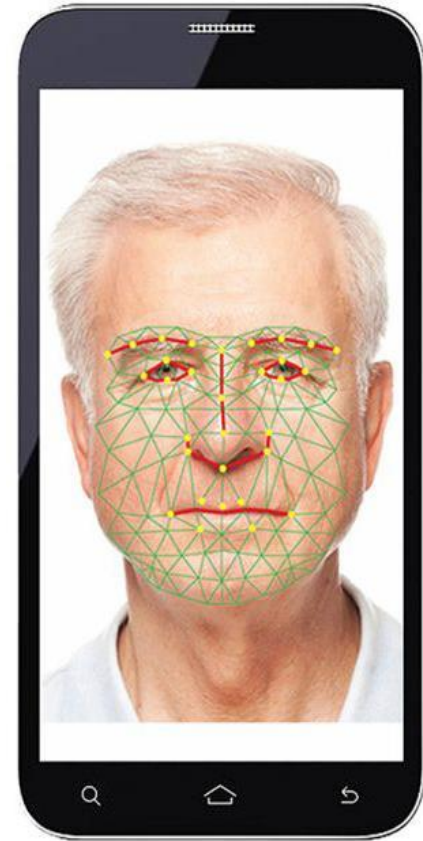
Artificial Intelligence (AI) technology to analyze facial expressions indicative of pain in real time



<sup>1</sup> Edge devices (smartphones and tablets ) are being adopted extensively within Aged Care and Primary Care health services to capture patient medical records and resident data

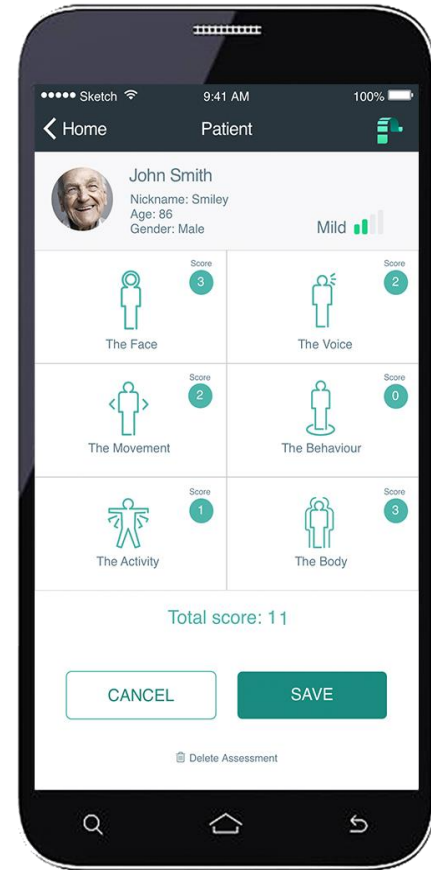


Helping carers **identify the presence of pain** when it isn't obvious...



Helping carers identify the  
presence of pain when it  
isn't obvious...

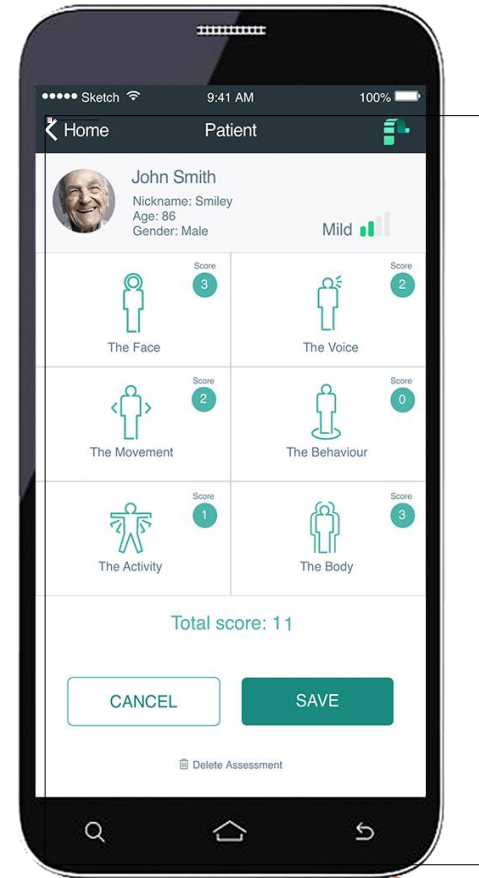
...quantifying the severity  
of pain when it is.....



Helping carers identify the  
presence of pain when it  
isn't obvious...

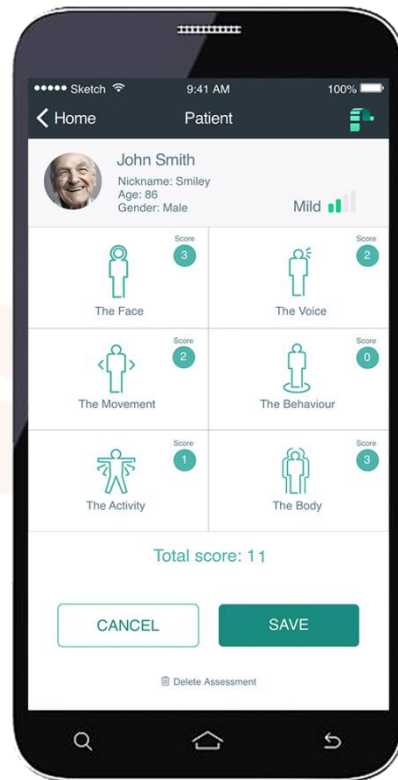
...quantifying the severity  
of pain when it is.....

and monitoring the  
effectiveness of  
interventions



# PainChek® App

- **Automated facial pain analysis:**
  - 3 second video of patient face
  - recognises 9 micro-facial expressions that indicate pain
- **Digital questionnaire checklist:**
  - guide the carer in other pain assessment factors e.g. movement, vocalization
  - leading questions with Yes/No decisions
- **Automated pain assessment score:**
  - based on 42 test points
- **Documented electronically via cloud backend:**
  - pain trend line and monitoring of treatment
  - capability to integrate into resident medical records



# Federal Government announcement of \$5M for PainChek implementation in Residential Aged Care

Channel 10 Perth Evening News - 29 April

Sky News - 30 April

100,000 beds in residential aged care





# PainChek

Intelligent Pain Assessment



How do we get more  
out of our Integrations?

# Workflows that support Policy

**PROCURA**  
All Complete Health

Setup

- Administration
- User Management
- General
  - Code Tables
  - Note Types
  - Groups
  - Shift Codes
- Event Templates
- Global Address Book
- Roles
- Workflow
- Design Studio
- Residents

Event Templates

T Showing: Active \* | Wokery Court \* | Add +

Name	Status	Created By	Created Date/Time
Admission Tasks Permanent	Active	Watson, Renee	11/02/2020 11:20 AM
Afternoon hygiene cares*	Active	Healey, Raewyn - Quality Manager	11/05/2018 10:36 AM
Bed Rail Monitoring*	Active		
Daily Weight*	Active		
Monthly Observation and Weight Monitoring*	Active		
Morning hygiene cares*	Active		
Nightly Safety Check*	Active		
PainChek Mild Score	Active		
PainChek Moderate Score	Active		
PainChek Severe Score	Active		
Restraint/Enable Monitoring*	Active		
Showers*	Active		
Vital Signs*	Active		
Weekly Registered Nurse Review*	Active		
Weekly Weight*	Active		

Event Template - Edit

Name \* PainChek Moderate Score

Business Unit \* Resthaven X Peacehaven X Walmsley House X Vickery Court X ZZTraining X

Active ☒

Workflow - Edit

Workflow Name PainChek Moderate Score

Active ☒

Event Chart - Add Entry

Business Units Peacehaven X

If Form Equals PainChekSubform and Field Total Score Range value = 12 12

AddEvent PainChek Moderate Score

Items:

Order	Event Subject	Document	Offset days	Recurrence
≡	Moderate Pain Score 12-15	Pain Monitoring and Management Chart	0	
≡	Redo PainChek Assessment		0	





## PAIN – Assessment and Management

Purpose	Staff will adhere to the following in order to effectively assess, address and relieve pain for all residents
Scope	All staff who provide care to residents

### Background

- Qualified nurses and care staff play a key role in identifying and relieving pain for residents – regular monitoring and assessment for pain is vital
- Pain is common in older adults and many of our residents will experience pain which can be chronic or acute
- Persistent pain can have a significant impact on a person's enjoyment of life and staff need to be watchful for non-verbal signs of pain e.g. grimacing, wincing, moaning, pacing, verbal or physical outbursts
- Self-report is the gold standard for pain assessment
- Pain is one of the most common symptoms that people with dementia experience. It is known to be poorly recognised and undertreated. As dementia progresses, the person's ability to communicate their needs becomes more difficult
- Any residents with complex or painful wounds should have pain relief charted and given 30 minutes prior to dressing changes

### Accountabilities and responsibilities

<b>Facility Manager (FM)</b>	<p>Ensure:</p> <ul style="list-style-type: none"> <li>○ Qualified nurses are provided with and attend regular education on pain assessment and management</li> <li>○ Staff have access to resources that may be required for non-pharmacological approaches (e.g. pressure relieving equipment, heat packs)</li> </ul>
<b>Clinical Manager (CM)</b>	<ul style="list-style-type: none"> <li>○ Provide guidance, clinical leadership and education on pain assessment and management as required</li> </ul> <p>Ensure:</p> <ul style="list-style-type: none"> <li>○ The Registered nurses <ul style="list-style-type: none"> <li>i) demonstrate a thorough understanding of the important role</li> </ul> </li> </ul>

Residents

General

Clinical

Core Plan Overview

Notes

Clinical Parameters

Documents

Care Plans

Care Provider Orders

Charts

ACPI

Allergies

Documentation

Events

PainChek

Back to Residents

Bar

DOB

Room

PainChek Entry

Total Score

7

12

PainChek Chart v5.0 - Edit > PainChek Assessment v3.0 - Edit

Search

Barnes, Jenny

DOB: 15/03/1916 (103 years)

River Wing > Rooms > Room 6 > Bed > Actual\_Bed D

Delete

Mark In Error

Save & Close

Overview

The Face

The Voice

The Movement

The Behaviour

The Activity

The Body

Information

Overview

Total Score

12

Pain Rating

moderate

Timing

At Rest

Facial Assessment Mode

Video

PainChek User

Renee Watson

The Face

4

The Voice


2


The Movement

2

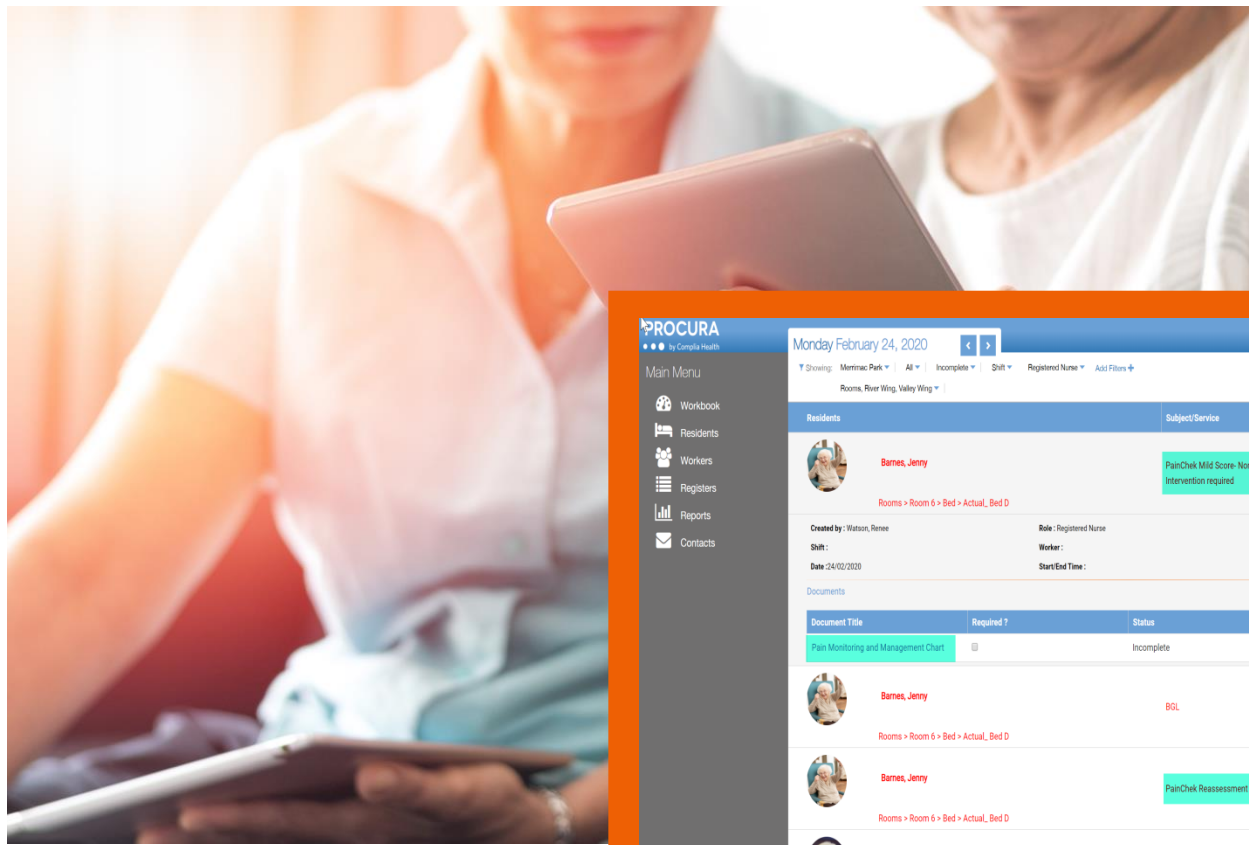
The Behaviour

2

 **PainChek**  
Intelligent Pain Assessment

 **AlayaCare**

[illegible][illegible]



PROCURA

by Corplus Health

Main Menu

Workbook

Residents

Workers

Registers

Reports

Contacts

Monday February 24, 2020

Showing: Mentimac Park | All | Incomplete | Shift | Registered Nurse | Add Filters

Rooms, River Wing, Valley Wing

Dashboard View | Handover | Add

Residents	Subject/Service	Start Date/Time									
<div></div> <div><b>Barnes, Jenny</b></div> <div>Rooms &gt; Room 6 &gt; Bed &gt; Actual_Bed D</div>	PainChek Mild Score- Non Pharmacological Intervention required	24/02/2020 6:00 AM									
<div>Created by: Watson, Renee   Role: Registered Nurse   Type: Task</div> <div>Shift:   Worker:   Status: Incomplete</div> <div>Date: 24/02/2020   Start/End Time:   Due Date/Time: 24/02/2020 6:00 AM</div>											
<div>Documents</div> <div><table><thead><tr><th>Document Title</th><th>Required ?</th><th>Status</th><th></th></tr></thead><tbody><tr><td>Pain Monitoring and Management Chart</td><td></td><td>Incomplete</td><td></td></tr></tbody></table></div>				Document Title	Required ?	Status		Pain Monitoring and Management Chart		Incomplete	
Document Title	Required ?	Status									
Pain Monitoring and Management Chart		Incomplete									
<div></div> <div><b>Barnes, Jenny</b></div> <div>Rooms &gt; Room 6 &gt; Bed &gt; Actual_Bed D</div>	BGL	24/02/2020 6:00 AM									
<div></div> <div><b>Barnes, Jenny</b></div> <div>Rooms &gt; Room 6 &gt; Bed &gt; Actual_Bed D</div>	PainChek Reassessment Required	24/02/2020 6:30 AM									
<div></div> <div><b>Chambers, Monica</b></div>	BGL Reading	24/02/2020 7:30 AM									





Questions?