



ADVANCED RISK MODELLING FOR EARLY DETECTION

Early Intervention and Prevention within Discharge to Assess

Brian Brown - Director of ARMED and Prof Doc Researcher

Lying down on the job!

NASA Human Research

Those chosen for the job will have to stay in bed 24 hours a day, seven days a week for 60 straight days. That means no getting up for bathroom breaks, bathing or meals. And the money well, it comes out to just shy of \$13 an hour.

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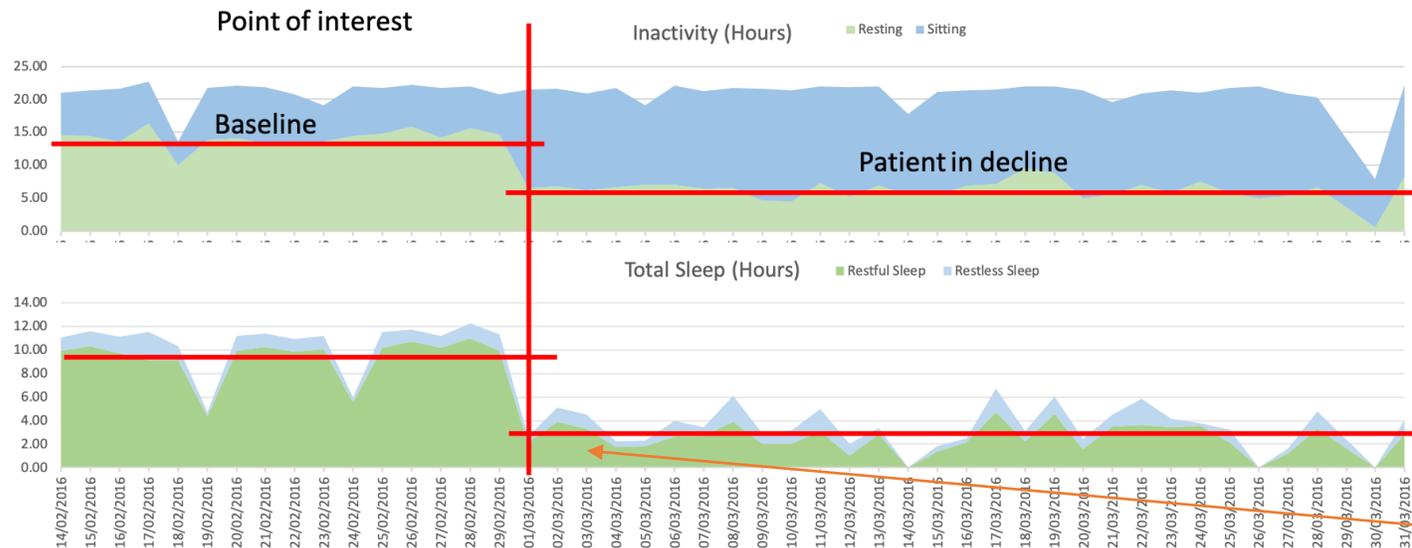
Sound good?

Oct. 10
Lynn Bet
Do You Love Lying In Bed? Get Paid By NASA To Do It For Space Research

April 14, 2019 - 8:31 PM ET

Twelve
name of science. NASA's Human Research Program, in partnership with DARPA, is sponsoring investigations in this study to observe and analyze the effects of fluid pressure on astronauts' eyes and optic nerves.

Patient 10 – Activity Profile



Person 10 # left side hip and passed away. Data indicated that they sat for up to 16 hours and slept restfully for 3 hours per night

When Person 10 Fell!

Re-ran data through ARMED model in Jan 2020. ARMED flags would have been raised **32** days in advance of when person fell

- Proven ability to identify escalating risk traits supporting prevention & early intervention
- Assisting to support a quicker throughput to reablement by monitoring individuals monitor from afar
- ARMED has been built against academic rigour of physiological change. Lots of deployments taking into account various settings including community, sheltered/extra care taking account of both older people and younger adults with a learning disability

“ARMED in a Box” – Easy As 1-2-3

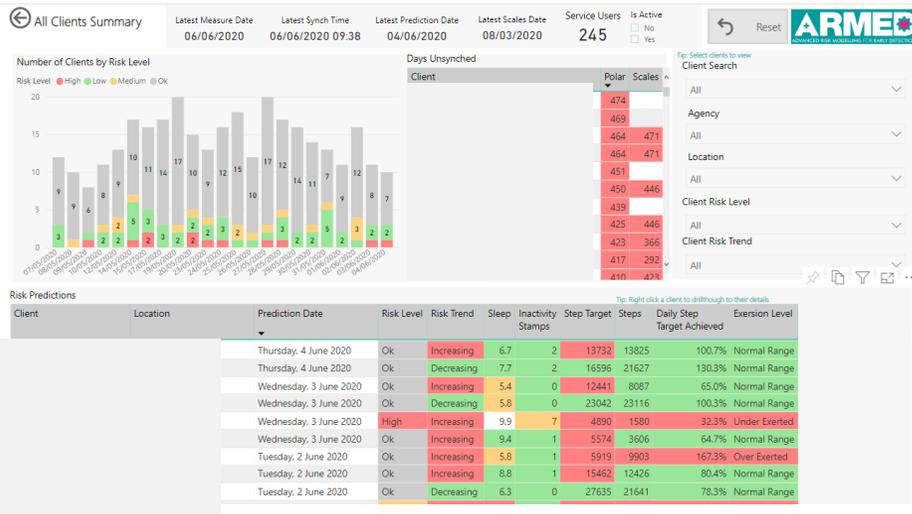


STEP 1

- ARMED in a Box came fully prepared, devices paired and ready to go onto the residents wrist
- This immediately started passively collecting data
- Staff fully trained in terms of deployment and data analysis / understanding

STEP 2

- The ARMED team supported system setup and configuration
- The system was configured by the time the hardware was configured / delivered
- Additional peripherals such as Bio-Impedance scales and strength grip measurements were also used
- Risk “Flags” started raising to appropriate staff



STEP 3

- The ARMED reporting dashboards provided a wealth of data supporting staff access:
 - Identify the day to day escalating risks of individuals
 - Identify the risk trends of a person over a rolling two week basis
 - Identify if a person is over or under exerting themselves (important during isolation periods)



Wakefield Housing **reduce falls** and **improve wellbeing**

Falls Information



Cardiff Council use **data** to **prevent falls** during lockdown

Cardiff Council Adopts Wearable Tech To Help Prevent Resident Falls

By Rhys Gregory — on Aug 4, 2020 — 0 Comments

* 90 yr old Customer



Pictured: Muriel, one of the residents who has been using the technology for around a month.

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An innovative wearable solution which helps to identify certain health risks early on, has been implemented by Cardiff Council as part of their Telecare response service.

The ARMED (Advanced Risk Modelling for Early Detection) software, developed by HAS technology, was adopted by Cardiff Council as part of a response service to put preventative measures into place for its community and residents.

ARMED empowers users with easy access to data allowing for better self-management, whilst healthcare professionals can be quickly alerted to potential issues.

Many individuals have been identified as having a potential 'fall risk' and provided with ARMED's wearable smart watches, so that their sleep and mobility data can remotely be monitored.



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ARMED

ADVANCED RISK MODELLING FOR EARLY DETECTION

*Measure more,
Live better*

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