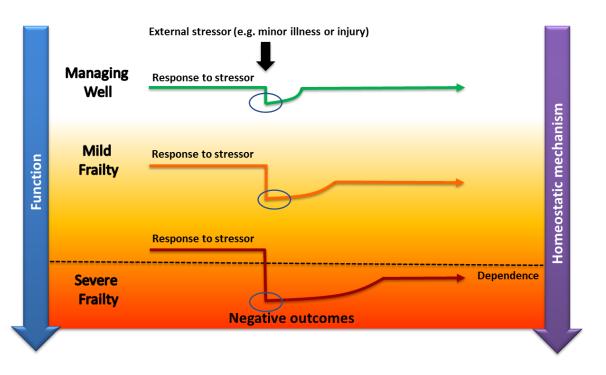


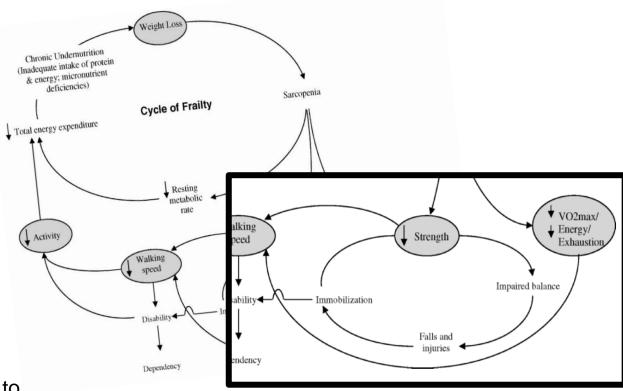
Identifying Escalating Risk Management to Support Prevention



What the Research Tells Us



Significant Inactivity = Decrease in Strength

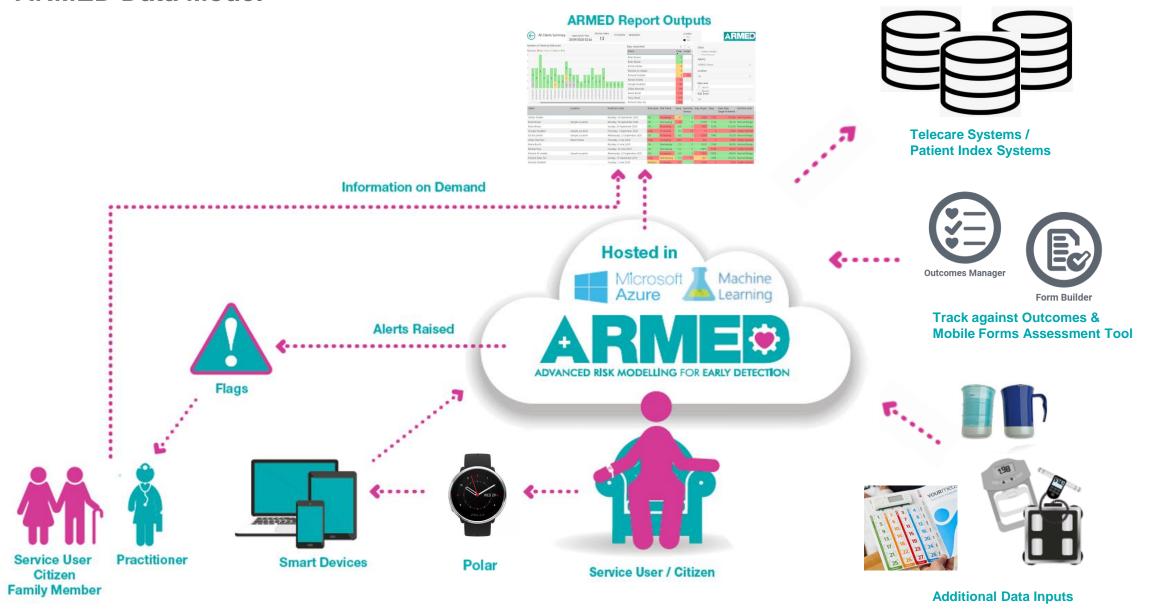


- 34% of individuals over 65 deemed at risk of falls. Increases to 45% for those over 80
- 10% will suffer a fragility fracture; 8% moderate with 2% serious
- Cost of retaining status quo unsustainable for services as well as poor outcomes for individuals





ARMED Data Model







Polar Device Data Metrics



Daytime Activity

Dat Low

Resting Medium

Sitting High

Sleep Pattern

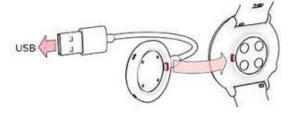
Total Restful sleep sleep

Restless sleep

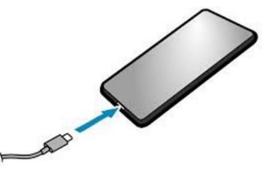
Mobility

Inactivity Distance Steps stamps walked taken









The settings ARMED can assist



Reablement based services

- Acute to community / Discharge to assess
- Prevention of admission
- Identify priorities for where services are most effectively delivered to

Telecare response services

- Transforming service re-design through prevention & earlier interventions
- Providing ability to proactively react and support as opposed to reactively dealing with incidents

Learning / Cognitive Disability

- Reducing overnight support services supporting care planning decisions
- OR other cognitive impairments such as dementia – understanding trends

Housing Sector

- Sheltered scheme housing / Extra care settings
- Residential Care settings

Long COVID

- Sleep patterns / overnight recharge
- Heart rate / breathing rates
- Pulmonary rehab patients



Hospital admission



- Single most predictive risk for functional decline in older people
- Rates of functional decline after hospital admission range from 10% to 50%
- However....
- Over the course of 2020/21, although perhaps not in hospital, people have been extremely sedentary therefore demonstrating the same functional decline / escalating risks



Use Case:

mPOWER Project – Dumfries & Galloway

HAS Prevention in Action

mPOWER Project – Dumfries & Galloway



The Challenge:

- Significantly rural area
- On average 90 people aged 75 years and over are admitted to Dumfries and Galloway Royal Infirmary's Combined Assessment Unit each week 37% identified as frail
- Equates therefore to 34 frail people aged 75 years and over is admitted to DGRI each week

The Use Case:

- Deploying ARMED to 70 individuals across variety of service areas
 - Residential care setting
 - Telecare response service
 - STARS Reablement service
 - Learning / Intellectual disability overnight support service
 - Pulmonary rehab service

The Opportunity:

- Promoting proactive self-management supporting positive behaviour change
- Identify escalating risk traits ad/or exacerbations within chronic conditions supporting earlier interventions
- Work in partnership with the HSCP to support service redesign and transformation







mPOWER Project – Cohort Selection



Living at Home:

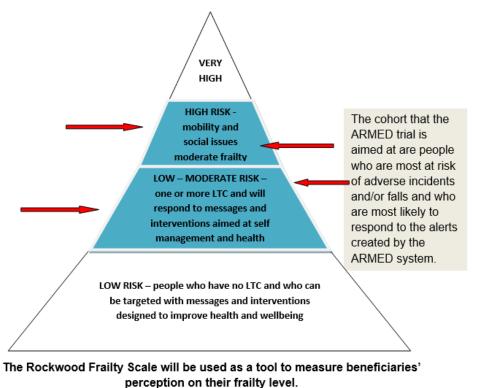
Initial assessment – 83% confident to very confident

After 3 months – Increased to 88%

Managing Long Term Conditions:

Initial assessment – 70% somewhat to very confident

After 3 months – Increased to 75%

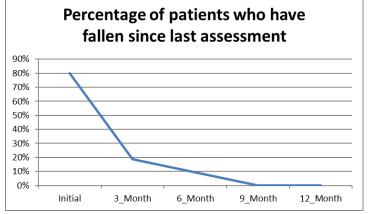


Using Technology:

Initial assessment – 73% confident to very confident

After 3 months – Increased to 75%

Activity: Increased by 69% Sleep: Increased by 81%







A Case Study: Rosemary



Rosemary is an 80 year old service user who we started providing care for in April last year following discharge from hospital, she is a very anxious lady and can often feel low and lethargic. She is very anxious about Covid-19 especially. However, since commencing the Polar device trial on 3rd November 2020, Rosemary has stated that the Polar device has lifted her mood quite significantly, it has motivated her to be more active and she really enjoys getting the feedback on how she is doing. She stated that in the evenings while she is watching TV the polar band advises her to get up and move around which motivates her to do so, she said that before she had the Polar device she would just have sat and watched TV and dozed off whereas she is now in a good routine of getting up and moving around regularly, staying awake until she goes to bed and therefore has a better night's sleep. Rosemary said that she really enjoys the feedback from the Polar device on how well she's doing and this has motivated her and lifted her mood a lot. On a physical level, Rosemary's legs are now much less swollen due to moving around more regularly therefore it's now easier for her to get around.







Measure more, live better

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