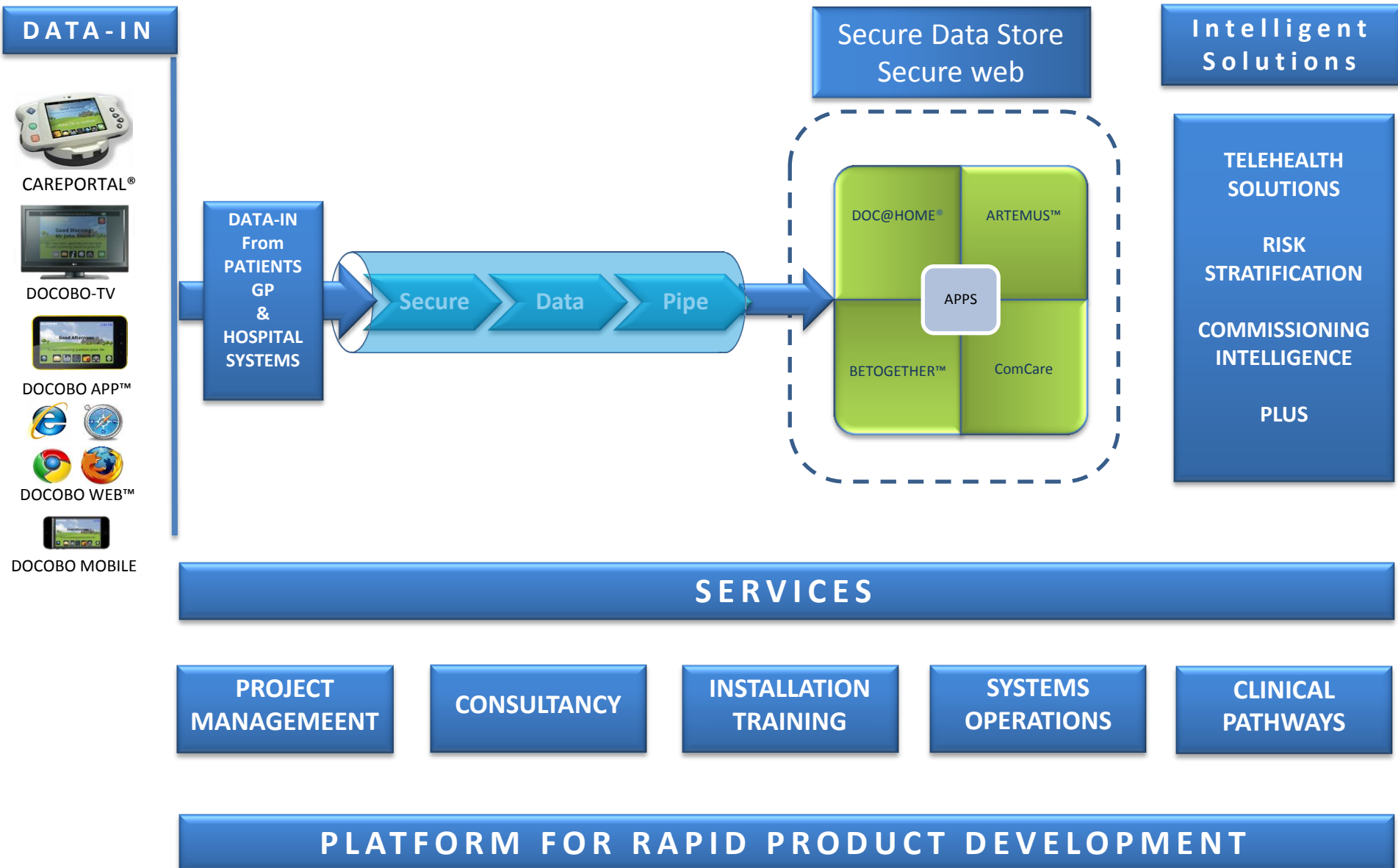




Adrian Flowerday

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Docobo Technology Platform



SBRI – End of Life Care - Home Ventilation



Problem

- NHS (tertiary/specialist respiratory team) not resourced to monitor & adjust ventilation frequently enough

Solution

- Use home based technology (telehealth - adapted)

Status

- Ethics and full trial status for Motor Neurone Cohort. Objective and Subjective measurement.

So what?

- Frequency of ventilation reviews – now a matter of choice (trial likely to conclude that optimum is monthly)
- Significantly reduced anxiety for patients and carers – more comfortable end of life
- Visits to hospital for reviews eliminated

SBRI – Cardio-Vascular Disease



Problem

- Too many patients attending A&E with heart related illness

Solution

- Enhance screening (improve the NHS Health Check) – reduce GP workload – identify those with elevated risk and “EasyJet” the process – “making screening easy” with a community screening system.

Status

- Targeting proven (over 10,000 with elevated risk in population of 300,000)
- “EasyJet” screening system in design

So what?

- Avoids bad health experience for patients – prolongs healthy life
- Avoids admissions to hospital
- Deflects from A&E
- Lower costs – better outcome
- Prevention is definitely better than the cure

SBRI – Integrated Care



Problem

- Early identification of patients with complex care needs and those at risk of social isolation

Solution

- Enhance risk stratification with additional sources of data including social care data
- Development of care community system to enable whole community data exchange
- Integration of home electronic technology (enhanced prediction and near real-time)
- Accurate and earlier identification of risk
- Enable collaboration across agencies of care

Status

- Phase 1 Feasibility: Initial workshop of GPs, Geriatrician, Consultant, Community Pharmacy, Local Authority Adult Social Care, Public Health completed.

So what?

- Technology to enable Integrated Care – substantial savings to NHS and Social Care
- Significantly improved care services
- Improved patient experience, pro-active care, improved social wellbeing (and consequent improvements in mental and physical health)

Problem

- “Sitting is the new smoking”. 31 million days of work lost. Complications after surgery, insufficient exercise, inactivity, falls.

Solution

- Technology to support self-rehabilitation at home (monitor for infections, health status, Gait training, physio exercises), video based physio regimes, self-help instrumentation

Status

- Phase 1 workshop with partners re technology integration

So what?

- Reduced complications after surgery
- Improved recovery – adherence to physio regimes
- Improved assessment of Gait – tailored training to prevent/reduce falls

SBRI & Docobo

We are very close to those we work with in the NHS

The SBRI challenges have enabled us to:

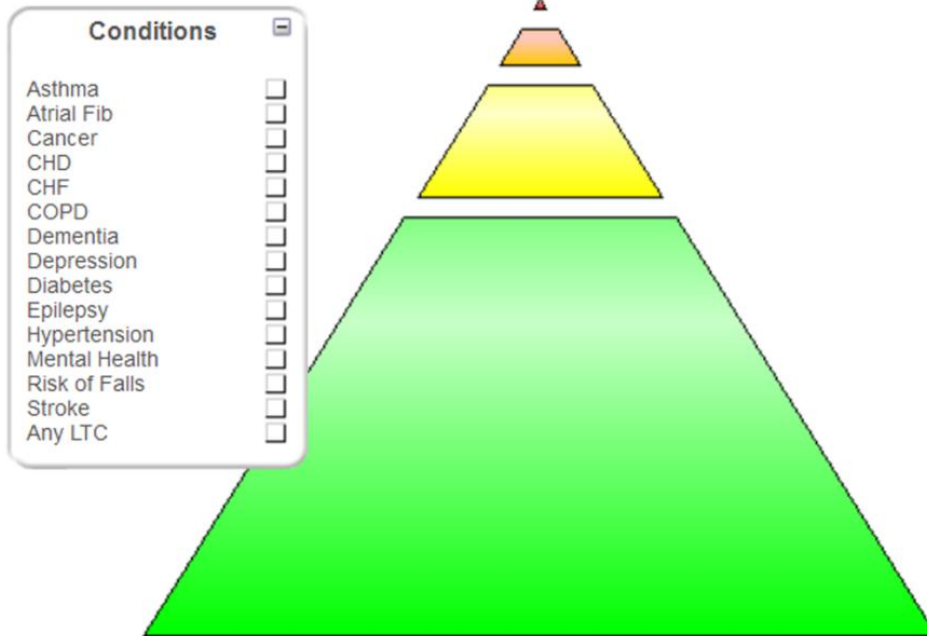
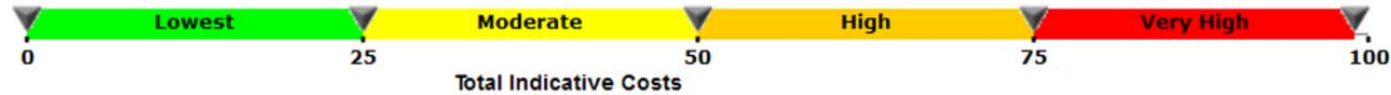
- Enhance relationships - working on challenges together – the benefits are mutual, together we:-
 - improve outcomes for patients and
 - reduce costs for the NHS
- Extend relationships – there's genuine interest in what we're doing
- Enhance our range of products and services
- Fund part of our R&D
- Demonstrate Docobo's strengths and attractiveness for future investment and growth.

Thank you for listening

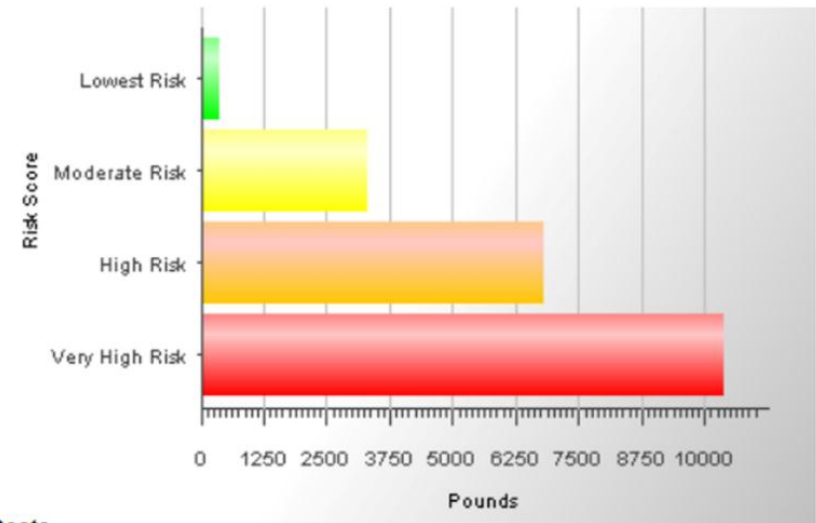
Questions?

Docobo®
towards a better quality of life™

ArtemusICS – single source of population health diagnosis and treatments



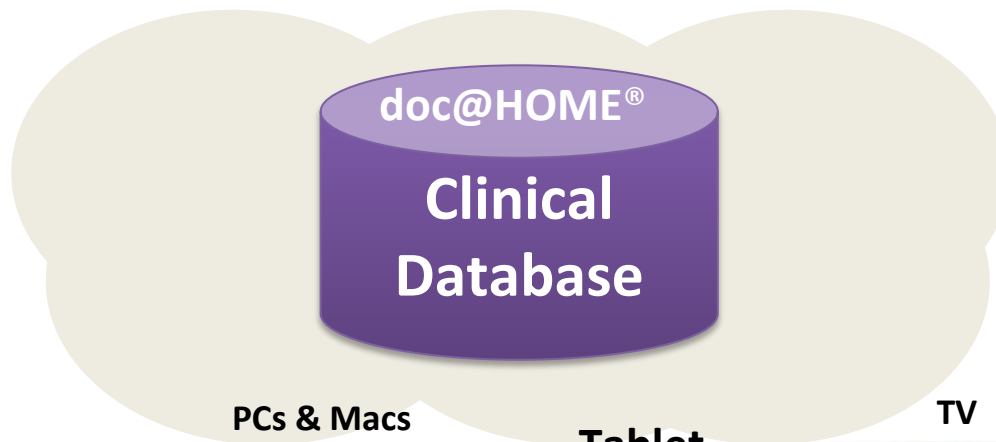
Average Indicative Cost per Patient by Risk Segment



Indicative Costs

Measures	Risk	Lowest Risk	Moderate Risk	High Risk	Very High Risk	Total
Patients		729204	22579	4627	602	757012
Total Cost		£243,470,788.00	£74,115,633.00	£31,277,970.00	£6,233,144.00	£355,097,535.00
Non Emergency Total Tariff		£75,608,151.00	£16,254,479.00	£4,529,152.00	£679,059.00	£97,070,841.00
Day Case Total Tariff		£51,374,351.00	£9,211,051.00	£2,588,287.00	£317,769.00	£63,491,458.00
Emergency Total Tariff		£67,339,285.00	£39,704,110.00	£21,285,352.00	£4,705,388.00	£133,034,135.00
A&e Total Tariff		£11,490,836.00	£1,773,074.00	£827,541.00	£241,318.00	£14,332,769.00
Outpatient Total Tariff		£37,658,165.00	£7,172,919.00	£2,047,638.00	£289,610.00	£47,168,332.00
Avg Cost		£333.89	£3,282.50	£6,759.88	£10,354.06	£469.08

Patient Need & Technical Ability



Smartphones



Laptop



PCs & Macs



Tablet



TV



CarePortal™



Well/
Worried well

Health
&
Wellbeing

Episodic
Care

Targeted
Conditions

Chronic
Conditions

Complex Cases
Multi-Morbid

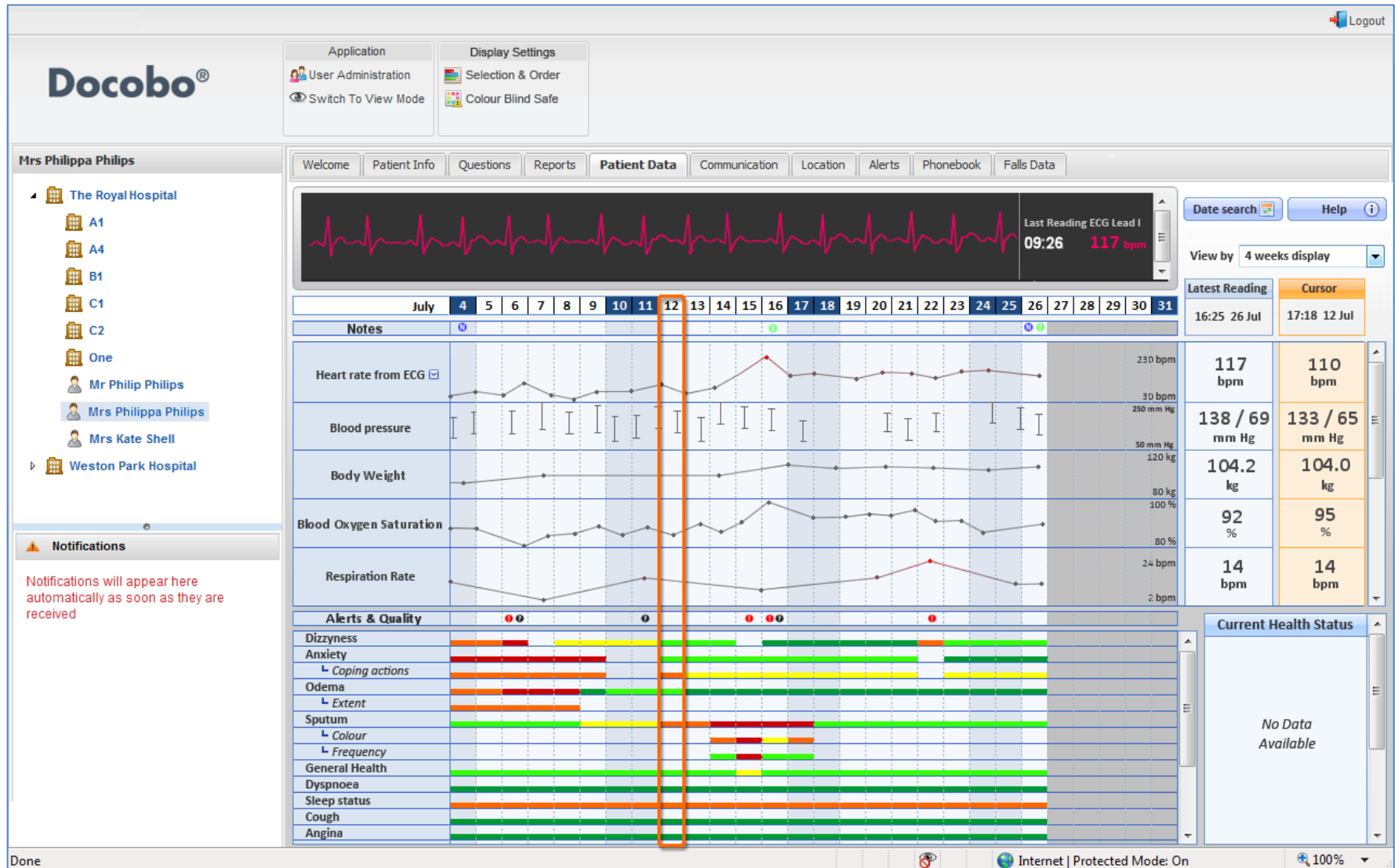
End of Life
Care

The Continuum of Care

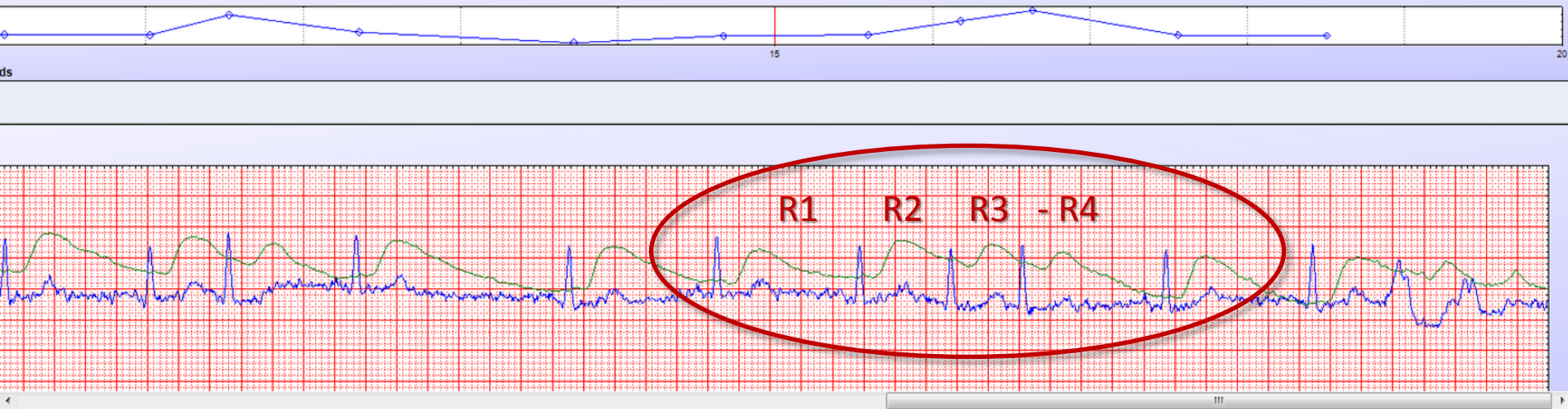
**IT Literate
Mild Long Term
Conditions**

**Elderly
Poorly
Symptomatic**

Clinician view example – rich diagnostic data



Atrial Fibrillation



Changes in cardiac output after accelerated atrial fibrillation beats

R1 - R2 R3 - R4