

Stuart J Mackintosh

OpusVL – Open Source integrator

OpenUK – UK Open Source industry association

The logo for dito.tech is located in the bottom left corner. It consists of the word "dito" in a bold, dark grey sans-serif font, with a small yellow double quote mark above the 'o'. Below "dito" is the text ".tech" in a smaller, lighter grey sans-serif font. The entire logo is set against a light blue rounded square background.

dito[“]
.tech

Stuart Mackintosh @SJMackintosh

An Open Digital Approach for the NHS

Part one – Policies, Principles & Practices
Stuart J Mackintosh

Document revision 1.0.13 (PUBLISHED 10 October 2018)
Digital copy available from <https://openuk.uk/media-library/>



030 3040 2030
<https://openuk.uk>
@OpnSrcCons

OpenUK – The UK open source industry association

Policy: What is the current policy, and how do the recommendations within this document support it?

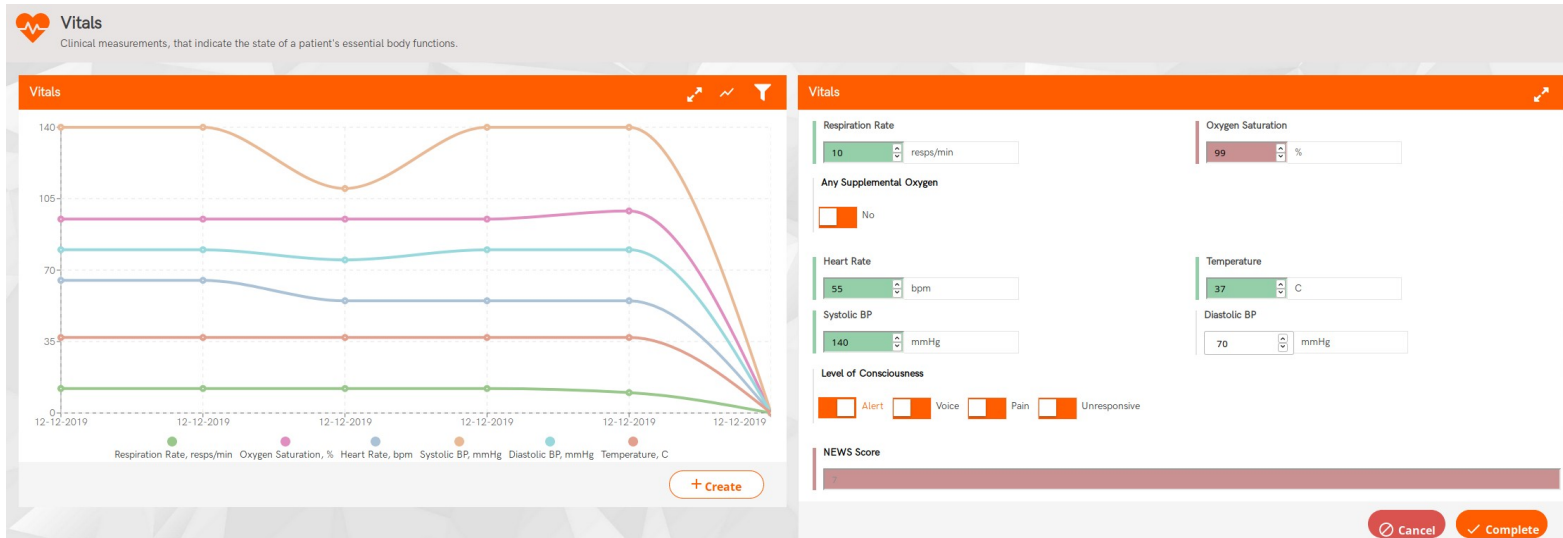
Principles: What are the principles that are both practical and able to meet the policy and recommendations?

Practices: What must be done to work operationally to those principles, and how can this be measured?

Download

Using clinical models

- REACT
- NEWS (2)
- DENWIS
- Ripple
 - EtherCIS
 - QEWD
 - PulseTile



Evolution of an application

Open-eObs

O2 Saturation 99

Submit NEWS score of 6 for xxx4443, xxx4443 xxx4443 ?

Clinical risk: Medium
Please confirm you want to submit this score

Do not submit Submit

Blood Pressure Diastolic 70

Pulse Rate 55

AVPU Pain

Patient on supplemental O2 No

Effective Date (ONLY CHANGE EFFECTIVE TIME IF NEEDED - Observation times can only be back-dated by 8 hours)
2019-12-12 13:02

Submit

PulseTile

Vitals

Respiration Rate [] resps/min

Oxygen Saturation [] %

Any Supplemental Oxygen
 No

Heart Rate [] bpm

Temperature [] C

Systolic BP [] mmHg

Diastolic BP [] mmHg

Level of Consciousness
 Alert Voice Pain Unresponsive

NEWS Score [] 0

DITO-eObs

11:08

New Monitoring Edit

Observation Summary

Wilson, Darren Alexander
0123 456 789 12 - 34 - 56

A & B

Respiration Rate
11 breaths per minute ↓ 1 Edit

C

Blood Pressure
89 / 70 mmHg ↑ 3 Edit

D & E

Consciousness
Pain ← 3 Edit

Temperature
39.2 °C ← 2 Edit

Clinical Risk High ↑ 9

Cancel Save

EWS 9 : High Risk Finish Observation



Key challenges & learning with eObs

- “Like paper”
- Numeric data input
- Unstructured data
- Integration with lower level controls
- Integration with EPR and other systems

Develop In The Open! - A micro study

- Developing the DENWIS archetype
 - The need: 'Free-text' issue
 - Located the clinical specification
 - Worked with experts to create the definition
 - Loaded in to CDR
 - Configured the interface
 - Enabled other interfaces
 - Ready for use
- This is what DITO enables.

Limiting factors

- Are not:
 - Digital / tech
 - Money
 - Capability
- Are:
 - Awareness & appreciation of the opportunity
 - 'Product' thinking
 - Understanding of commercial models
 - Effective use of money

What's next?

- Publish evidence and documentation
- Fully implement eObs V2
- Extend V2 to cover full chain of prevention
- Process - Task Planning
- Guideline Definition Language: encapsulation of algorithms
- Direct interfacing

Thank you

- **Get engaged!**
- In person: **6th February at RNOH London**
- News: **#DITO**
- Publications, screenshots etc: <https://dito.tech>
- Professional services: <https://opusvl.com/>
- Communities: <https://apperta.org>
- Open Source Industry: <https://openuk.uk/>

