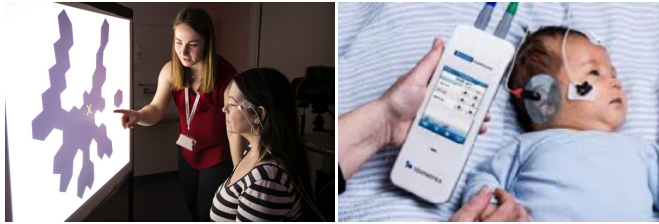
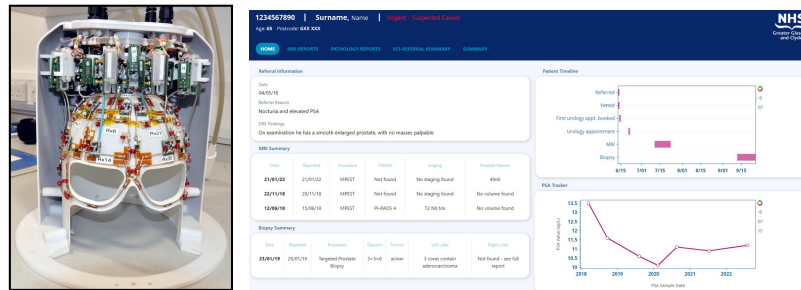


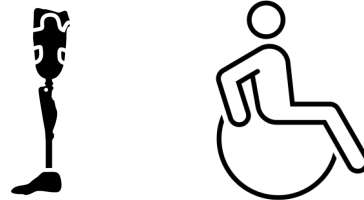
Clinical Engineering



Clinical Measurement



Medical Device Design and Development



Rehab Engineering



Medical Equipment Management



Clinical Measurement

Medical Device Design
and Development

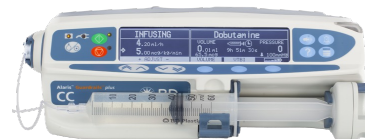
Rehab Engineering

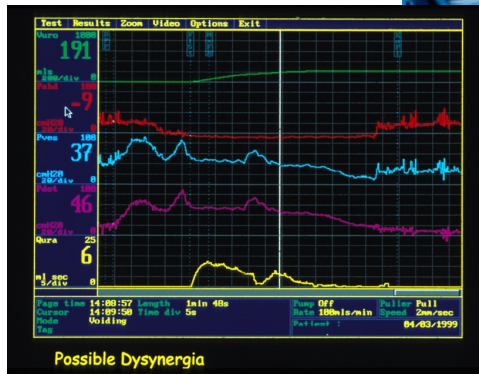
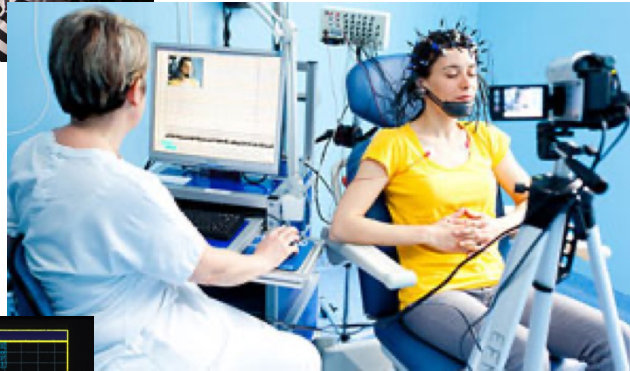
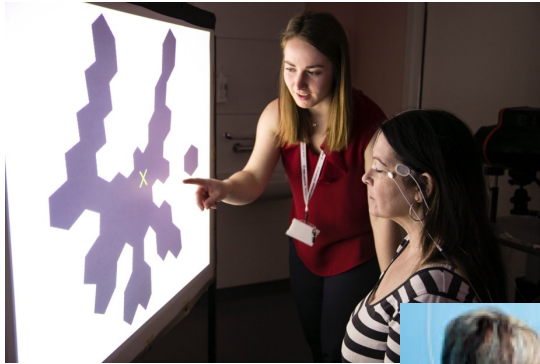
Medical Equipment
Management

>100 members of staff in Glasgow

Managing > 60k medical device assets

Responsible for medical electrical equipment
from cradle to grave





Clinical Measurement

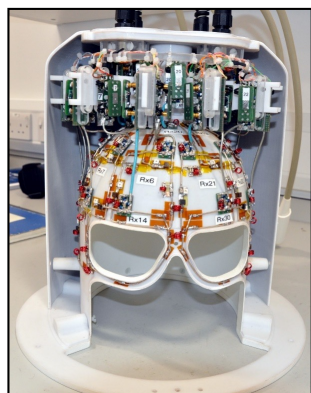
Medical Device Design
and Development

Rehab Engineering

Medical Equipment
Management



Clinical Measurement



Medical Device Design and Development

App Store Preview

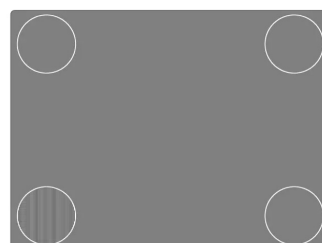


Peekaboo Vision 4+
Greater Glasgow Health Board
★★★★★ 4.5 • 6 Ratings
Free



Rehab Engineering

iPad Screenshots



Medical Equipment Management



Clinical Engineering can be invisible...



Department of
Clinical
Physics &
Bioengineering



75-year old man with type 1 diabetes

Self-monitoring blood glucose since the 80's

Circulation problems developed in his 60's

First noticed pain in his calves when walking

Vascular problems progressed and ultimately his foot was amputated

https://commons.wikimedia.org/wiki/File:Blausen_0580_Insulin_Syringe%26Pen.png
https://commons.wikimedia.org/wiki/File:Blausen_0301_Diabetes_GlucoseMonitoring.png



Patient view of his treatment

He saw a doctor when he first experienced pain in his leg

A nurse scanned his leg and took some blood pressure readings

A surgeon operated on his foot, and he was cared for by nurses afterwards



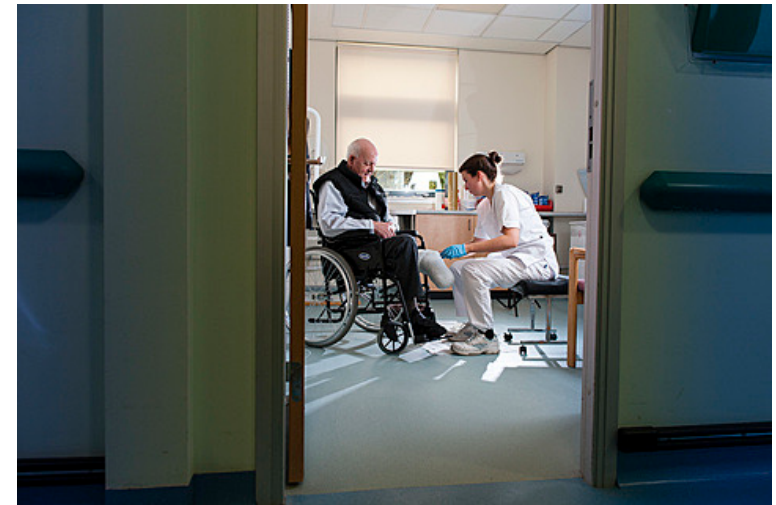
Patient view of his treatment

He regularly sees his doctor and they talk about his latest test results (glucose, HbA1c)



He's been given a new blood glucose monitor that connects directly to his phone

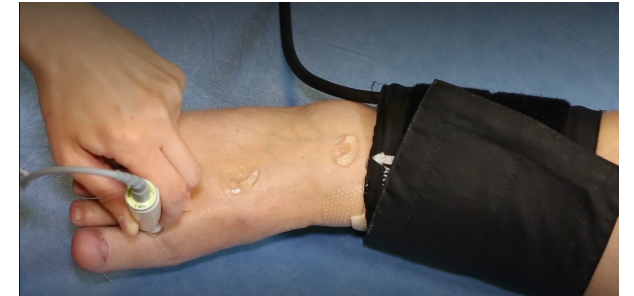
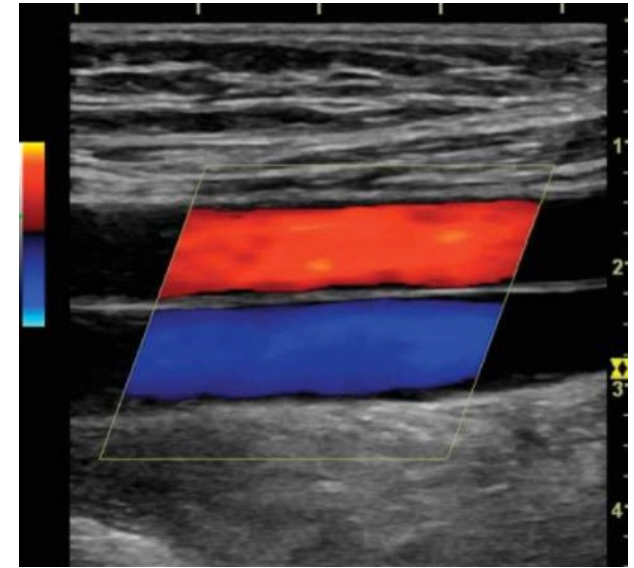
A prosthetic foot has been custom made for him



Clinical engineering's view...

Patient was referred to the Vascular Lab (Clinical Measurement service) for specialist diagnostic ultrasound and pressure testing

After surgery a prosthetic foot was created by the Rehabilitation Engineering service

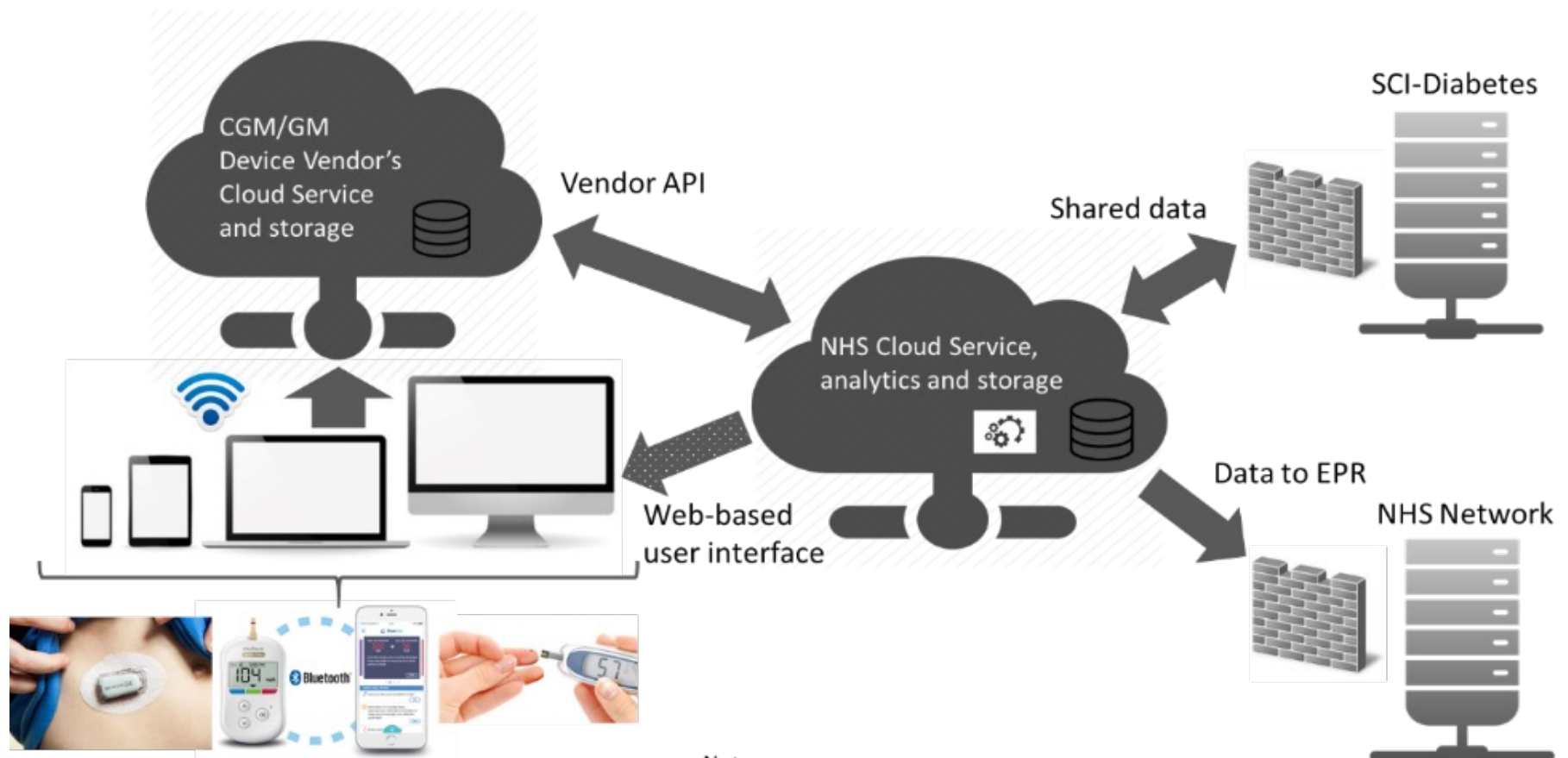


Clinical engineering view...

Every outpatient appointment and in particular surgery is reliant on the medical equipment being in good working order



Clinical Engineering's view...



Notes:

(C)GM: (Continuous) Glucose Monitor

API: Application Interface

SCI-Diabetes: Scotland's diabetes information system

EPR: Electronic Patient Record

END