Patients’ Perspective

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Patients  -  Clinicians  -  Scientists

Working together to achieve a broader, more caring, and patient focussed, approach to healthcare.

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Early Devices
As developed by engineers
Bringing Engineering Closer to the Public

Patients and Health professionals have little idea about what constitutes devices and even less about engineering & where that fits in with their healthcare.

But the explosion in young people with prosthetic limbs and the Paralympics is beginning to make people realise that engineering can change their lives.
Devices

What are devices?

A medical device is any product, that is not a drug, used in the:

- diagnosis, prevention, monitoring and treatment of disease or disability
- diagnosis, monitoring, treatment, alleviation of or compensation for an injury or handicap
- investigation, replacement or modification of the anatomy, or of a physiological process
- control of conception
Devices

- Over 90,000 on the market
  - Hospital, Primary Care, Home setting

- Annual NHS spend alone on such devices is £15 billion
  - (Does not include devices in Social care or domestic use)
  - (Compare with £12 billion spent by NHS on drugs)

- £300 million spent by NHS on maintenance of such devices
Litigation

- 5,500 notified claims to the NHS Litigation Authority over past 10 years relate to medical devices
  - These involve:
    - Defective devices/equipment
    - Malfunction of device/equipment
    - User interface problems

- £102.4 million payout by the NHS over the last 10 years
Hopes & Expectations

- Government
  - Current model of NHS is unsustainable (out of funds by 2020?)
  - Wish list
    - Quicker healthcare
    - Slicker healthcare
    - Cheaper healthcare
    - Better Public Health
      - More prevention
      - More self care
      - More self management
      - More patient empowerment
      - Cost effective screening
Hopes & Expectations

- Health Professionals
  - Wish list
    - Better outcomes for patients
    - Less risk for patients (and clinicians)
    - Less of the mundane
    - Better quality
    - Better reliability
    - Better availability
    - Better instructions for use (IFU)
    - One stop screening
Hopes & Expectations

- Patients
  - Wish list
    - Good quality of life
    - Ability to stay at home & out of secondary care
  - Devices
    - Safe
    - Reliable
    - Robust
    - Effective
    - Reusable
    - Easy to understand instructions
New Ways of Working

- New Materials
- New Technologies
  - Day surgery
  - Keyhole surgery
  - Bio-robotic surgery with imaging
- New Software systems
- New ways of testing products
- New ways of applying systems
New Information Sources

- We must recognise that the NHS is not up to the mark with its IT systems.
  - This is a major problem
  - We need new approaches to circumvent this

- New Generation are Techno-savvy
  - Mobile phone technology
  - Internet
  - Blogs
  - Facebook
  - Apps with everything!
Global Access

- This is a Global business
  - $200 billion devices worldwide

- The public wants innovation to help them stay well, and stay in their homes

- What they don’t know is that they need engineers to give it to them!
Patients  -  Clinicians  -  Scientists

Engineers!

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