# Collaborate to Improve Care

Fiona Carragher

Deputy Chief Scientific Officer

@DepCSOFiona

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## The 'triple aim' for the future NHS

# Care and Quality Gap

Improving
 identification and
 management of
 patient
 conditions,
 making the most
 of the
 opportunities
 available



# Health & wellbeing gap

- Preventing morbidity
- Reducing inequality between various communities

### Funding & efficiency gap

 Ensuring effective sustainable services given social and demographic change

#### There is currently:

- inequitable access to diagnostics & scientific services
- variable quality in delivery
- commissioning fails to link to the value proposition



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## Requirements for the future NHS

- Improving integration of services breaking down barriers between services and developing new integrated structures
- New structures for delivering care
- Improving the NHS's ability to undertake research and innovation & raising the game on health technology
- More investment in primary care
- Patients have greater control of their own care
- Radical upgrade in prevention and public health



## **Healthcare Scientists**



#### **Lab/Pathology Sciences**

- Analytical Toxicology
- Anatomical pathology
- Blood transfusion science/transplantation
- Clinical biochemistry including paediatric metabolic biochemistry
- Clinical genetics/Genetic Science
- Clinical embryology & Reproductive Science
- Clinical immunology
- Cytopathology including cervical cytology
- Electron microscopy
- External quality assurance
- Haematology
- Haemostasis and thrombosis
- Clinical Immunology
- Histocompatibility & immunogenetics
- Histopathology
- Microbiology
- Molecular pathology of acquired disease
- Phlebotomy
- Tissue banking

#### **Physiological Sciences**

- Audiology
- Autonomic neurovascular function
- Cardiac physiology
- Clinical perfusion science
- Critical care science
- Gastrointestinal physiology
- Neurophysiology
- Ophthalmic and vision science
- Respiratory physiology
- Urodynamic science
- Vascular science

#### **Bioinformatics** including

- Clinical Bioinformatics and Genomics
- Computer science and modelling
- Specialist Health Informatics & analysis

## Physical Sciences and Biomedical Engineering

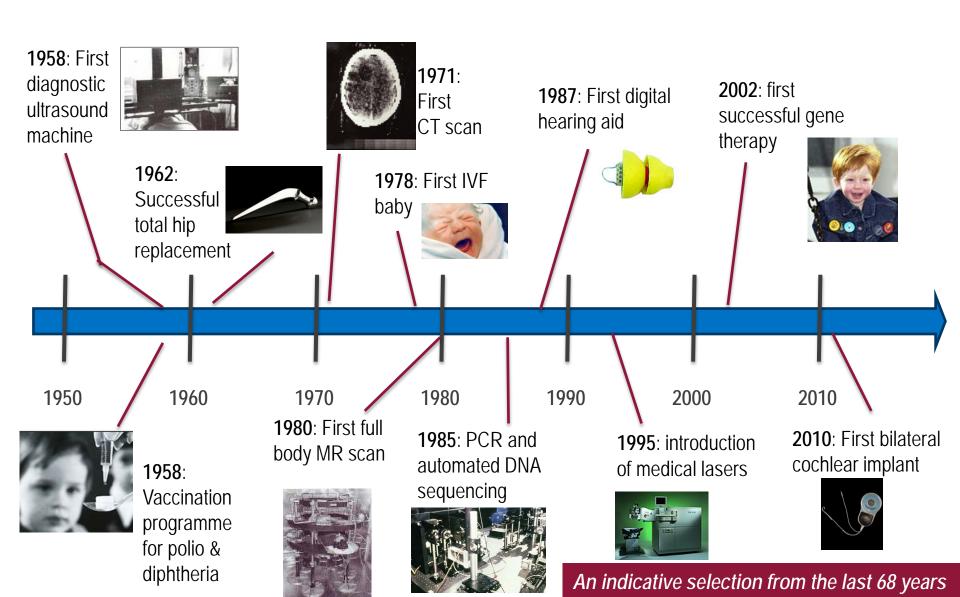
- Biomechanical engineering
- Clinical measurement & Development
- Clinical Pharmaceutical Science
- Diagnostic radiology & MR physics
- Equipment management & clinical engineering
- Medical electronics & instrumentation
- Medical engineering design
- Clinical photography
- Nuclear medicine
- Radiation protection & monitoring
- Radiotherapy physics
- Reconstructive Science
- Rehabilitation engineering
- Renal dialysis technology
- Ultrasound & non-ionising radiation

These specialisms are found across the health and social care system in the UK inclusive of the NHS, Public Health England and NHSBT and in the private & third sector delivering NHS services for patients

Many of these specialisms have important links with the other professional areas, with some staff having joint registration

# The NHS –a service built on science and technology



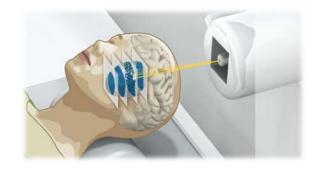




## Science and technology- crucial for the future

















## ...Be Innovative

- Bring your ideas to the table
- Think creatively
- Collaborate with clinical colleagues, industry, academia
- Who else can you learn from ?





# ...how you can make a difference to others?





## ... Take your place in the team





## And be fearless!



- Think about how you can make a difference
- Be confident so your voice is heard
- Say yes to opportunities
- Others may come with you

## **Enthusiasm is contagious!**





- Break the stereotype
- Have passion and commitment
- Think about how you can play your part in this challenge
- Bring your skill, expertise, creative minds to the problems raised