MANCHESTER’S Academic Health Science Centre

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Research Operations Manager
MAHSC
East of England
East Midlands
London
North East
North West
South East Coast
South Central
South West
West Midlands
Yorkshire and the Humber

High Quality Care For All

NHS Next Stage Review Final Report
A Virtuous Circle

Excellence in Research

DIFFUSION of INNOVATION

Excellence in Education

Improved Patient Care
Manchester Academic Health Science Centre (MAHSC)

Six NHS organisations in Greater Manchester and The University of Manchester

The only AHSC which covers the full spectrum of health care: acute, specialist, mental health, primary care

£2.3 billion annual spend 35,000 people employed
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MAHSC Members:

The University of Manchester
Central Manchester University Hospitals NHS Foundation Trust
Manchester Mental Health and Social Care Trust
Salford Primary Care Trust (NHS Salford)
Salford Royal NHS Foundation Trust
The Christie NHS Foundation Trust
University Hospital of South Manchester NHS Foundation Trust
The Manchester Scene

- Highest level of long term mental health problems
- Over 60% of adults are overweight or obese
- More than 25% of children live in poverty
- 39.5% of children living in workless households compared to 16.4% in England
- Only 11% of adults are physically active
- Highest level of drug misuse in England
- 23% of adults are binge drinkers
- 10.9% of working age population on capacity benefit, largely for preventable/manageable conditions

Source: Office for National Statistics
*Please note: the picture is for illustrative purposes only actual parts are as per the listed spec*
Why now?

- 2001: Wellcome Trust Clinical Research Facility
- 2004: Greater Manchester Research Alliance
- 2005: Manchester Cancer Research Centre
- 2006: Biomedical Research Centre
- 2006: NHS partners External Review of Research Strengths
- 2007: Greater Manchester Health Research project began
- 2008: Manchester Integrating Medicine and Innovative Technology
- 2008: MAHSC created; Company Limited by Guarantee
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- DH International Panel used metrics in public domain
- Application Part 1: 16 January
- 7 short-listed
- Full Application: 18 February
- Interviews: 2-4 March
- Announcement: 9 March – 5 AHSCs designated for 5yrs:
  - ✓ Cambridge
  - ✓ Imperial
  - ✓ Kings
  - ✓ Manchester
  - ✓ UCL

- No DH funding associated with Designation – Prestige!
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A federation of equals
A federation for enhancement

Mission
The University: scholarship, research, education
The NHS partners: health care, innovation

Agility
Smaller operating units
more readily embrace change

Collegiality
Is the basis of much creativity

Engagement
Innovation and its diffusion and adoption
requires further external partners
Our Vision

To be a leading centre nationally and internationally for the uptake of innovation health research and education into health care.
Goals

One: **Improve** the health and wellbeing of the population through the development and application of innovative healthcare and research

Two: **Disseminate** innovation in technology and care nationally and internationally.

Three: **Educate** effectively in all aspects of healthcare, healthcare management, and biomedicine in support of workforce development.

Four: **Lead** on quality of care and public engagement.

Five: **Partner** more widely and more beneficially with the commercial sector.

Six: **Contribute** significantly to innovation, enterprise and economic development in the city region and the North West of England.

Seven: **Attract** the best national and international health researchers and healthcare workers.
The Major Challenges

- Integrating research and education with NHS service commitments
- Avoiding duplication of effort and parochial decision-making
- Improving poor communication and strengthening the brand
- Making research infrastructure world-class and pan-Manchester
- Reducing delay in the delivery of innovation
- Bringing quality patient experience and outcome to the fore
- Coordination of all appointments to drive efficiencies
Figure 1: The critical path of research from basic science to healthcare delivery identifying the important gaps in translation. From A Review of UK Health Research Funding, Sir David Cooksey, December 2006.
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Assets for Delivery

Glossary:
- BRC - Biomedical Research Centre
- MCRC – Manchester Cancer Research Centre
- WT CELL - Wellcome Trust Centre for Cell- matrix Research
- MIB - Manchester Interdisciplinary Biocentre
- FLS - Faculty of Life Sciences
- BII - Biomedical Imaging Institute
- WMIC - Wolfson Molecular Imaging Centre
- Phase 1 – Phase 1 Clinical Trials Unit
- WT CRF - Wellcome Trust Clinical Research Facility
- GM CLRN - Comprehensive Local Research Network
- e-Health (data management)
- NPCRDC - National Primary Care R&D Centre
- CLAHRC - Collaboration for Leadership in Applied Health Research and Care
- MIMIT - Manchester Integrating Medicine and Innovative Technology
- HIEC - Health Innovation and Education Clusters
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Structured for Delivery

Enabling Academic Sections

- Infrastructure and technology
  - DNA banks
  - Tissue banks
  - Omics
  - Imaging
  - e-Health

- Evaluation
  - CLRN interface
  - Biostatistics
  - Bio-health informatics
  - Epidemiology

- Implementation and health of the public
  - Health economics
  - Health services
  - Primary care
  - Quality assessment
  - Health inequalities

- Education and training
  - Postgraduate integrated academic training programme
  - HIEC interface

Clinical Academic Sections
- Cancer
- Cardiovascular
- Human development
- Inflammation and repair
- Mental health

NEED UNMET

NEED FULFILLED
A more detailed example: Manchester Cancer Research Centre

Established 2005
Christie/University/CRUK
high level external governance
shared integrated management

Specific examples of success
• new appointments in breast cancer & radiation-related research
• investment in biomarker research
• new expanded clinical trial facility
• coordination of tissue collection (five hospitals)
• developed clinical proteomics platform
• drug discovery centre funded
• joint appointments with industry
• clinical fellows programme
• major new capital investment in planning stages
Strategic plan: from our five year vision…

E-health

• e-Lab infrastructure gives access to anonymised linked records from all aspects of NHS care for a population of 2.5 m

Clinical trials

• An integrated facility across accessible via single portal enabling studies from biomarker and first-in-man to population level interventions

Implementation

• Implementation embedded in the organisation through knowledge transfer agents
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Strategic plan: from our ten year vision…….

• More than 10 demonstrable health benefits
• More than 100 new senior national/international health researchers
• More than 1,000 research-enabled healthcare workers trained
• Trebled commercial partnerships in drugs and devices
• Health-conscious population of "citizen scientists" created
Bringing innovation to patients and the public

**Clinical Academic Sections**
- Cancer
- Cardiovascular
- Human development
- Inflammation and repair
- Mental health

**Other Academic Disciplines**
- Economics, healthcare management, sociology,
- Engineering, computer science, life sciences,
- dentistry, nursing, pharmacy, clinical psychology

**Platforms**
- E-health
- Bioinformatics
- Phenotyping
- Repositories
- Clinical trials
- Health service research

**Partners**
- National and international AHSCS
- Industry

**Education**
- Undergraduate
- Postgraduate
- Workforce
- Community

**Governance**

**HIEC**
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**Partners**

- NHS North West
- GM CLRN

**Industry**

- UK Trade and Investment, US
- AstraZeneca
- GlaxoSmithKline
- ICON

**AHSCs**

- University of Pittsburgh Medical Centre
- Nijmegen Medical centre
Further information on MAHSC and other UK AHSCs

www.mahsc.ac.uk

www.ournhs.nhs.uk/?p=1105