Collaborative working with US Analysts



NHS Digital & US Department of Health & Human Services



Information and technology for better health and care

presented by Chris Dew, Information Analysis Lead Manager

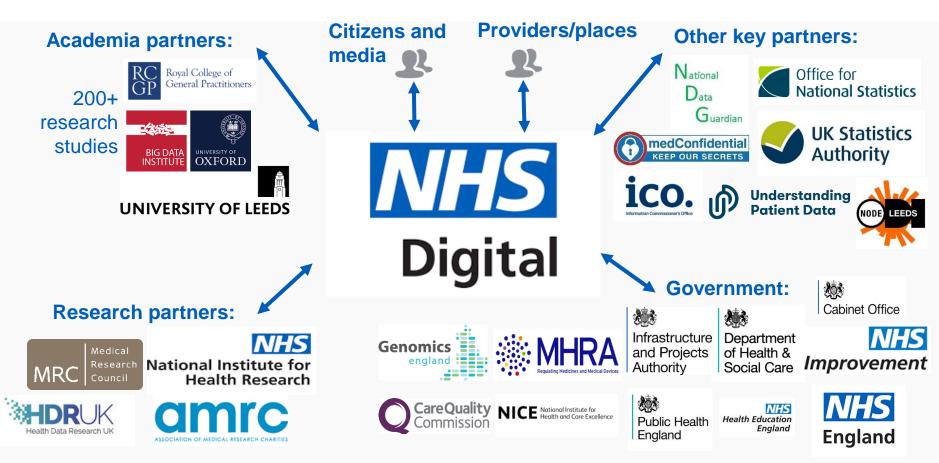
Our mission

To harness the power of information and technology to make health and care better

Our role

The national information and technology partner to the health and care system

We do this together...



Objectives for collaboration

Share challenges and best practice

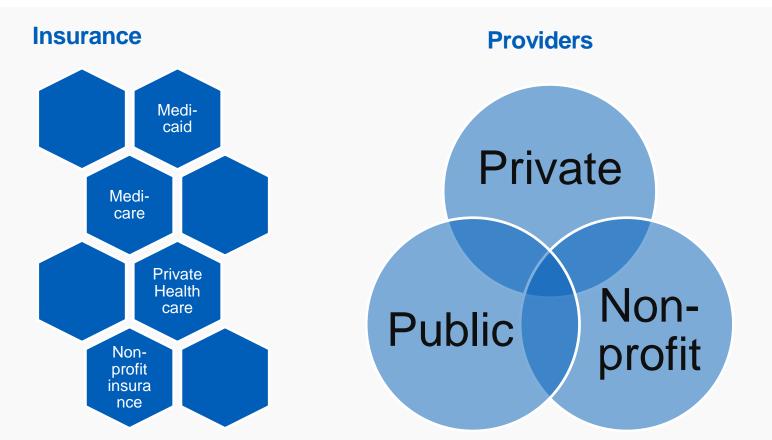
Propose innovative approaches

Explore opportunities for future collaboration

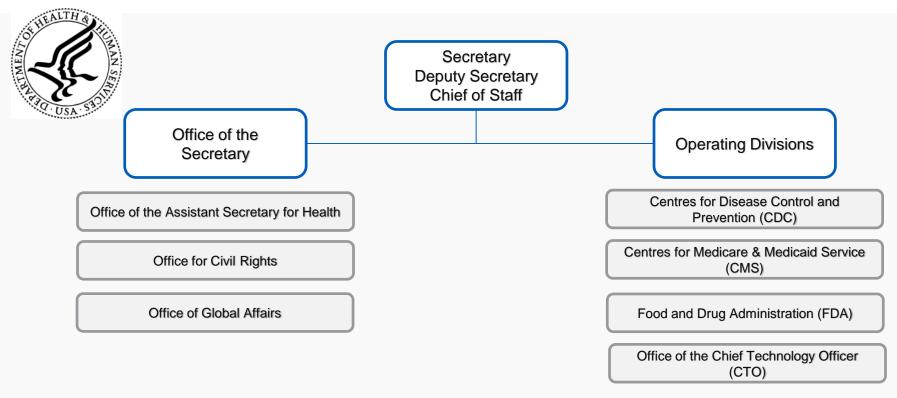
Context:

- Opioid Addiction
- Anti-microbial resistance

US healthcare system



Department of Health and Human Services



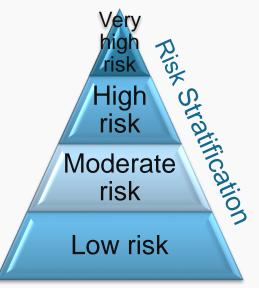
Opioid addiction

Three focus areas :

- Treatment improving access to treatment and services
- Prevention predicting the supply and movement of opioids
- Usage identifying at-risk populations for opioid abuse and misuse

Recommendations:

- Risk Stratification for Population and Prescription using FIHR
- Survival Analysis for treatment intervention
- Track demand for information and services like NHS Choices



Anti-microbial use and resistance

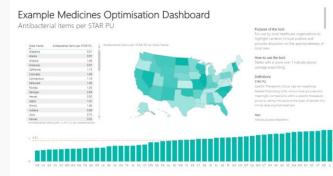
Challenge:

- Surveillance effort at local, state and federal (CDC) level
- Evaluate appropriate use including differences in prescribing rates across states
- Prediction variables
- Patient transfers and outpatient tracking

Recommendations:

- Medicines Optimisation dashboard
- Public health maps to improve policies and compliance
- Investigate real-time patient tracking





What we learnt



- A single health system and NHS numbers give us a distinct advantage in data analysis
- We have good quality, national data allowing rich analysis
- The US have a vast array of health data but due to privacy laws there is very little linkage or longitudinal work
- Innovation is key to improve health care technology
- Speaking to data analysts is essential when working with new datasets
- (Washington DC has really good museums and beautiful buildings)

The UK team

- Lisa Franklin
- Tom Denwood
- Chris Dew
- Emily Michelmore
- Tom Poupart
- Simone Chung
- Wilma Harvey-Reid
- Helen Richards





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