

A one day interactive conference:

PLETHORA': what's in it for you?

Transforming Healthcare through Advanced Analytics

May 16, 2018, 9.30am – 4pm

Woburn House, 20 Tavistock Square, London, WC1H 9HQ

PROGRAMME: *(Chair - Sally Brailsford)*

09:30 Arrival, coffee & registration

10:00 Introductions & welcome - *Martin Pitt*

10:05 Welcome from the Health Foundation - *Martin Bardsley*

10:10 **Keynote: Martin Caunt** *(Senior Analytical Lead, Improvement Analytics Unit)*

The use of national data sets to evaluate large scale change: the work of the Improvement Analytics Unit. The NHS in England gathers data on around 20 million hospital episodes a year. In addition, data at community and primary care levels provide further insight into patient activity and health care delivery. This talk will outline how the Improvement Analytics Unit is linking data sets and devising robust control groups to evaluate the impact of reforms designed to improve the NHS.

10:35 **Keynote: Dr Abraham George** *(Consultant in Public Health, Kent County Council)*

Use of linked datasets for population health analytics: a public health perspective

Kent's approach to using linked data from health and care across hundreds of providers for population health analytics. Case examples of population health analytics including JSNA population cohort modelling and capacity planning. Critical reflections on the challenges on data linkage around IG, data quality, implications for R&D

11:00 **Keynote: Dr Sarah Dougan** *(Chief Analytical Officer and Consultant in Public Health, Islington)* & **Laura Schlepper** *(Research Analyst, Nuffield Trust)*

The opportunities and challenges of embedding analytics in the local public sector system and promoting diversity and gender equality in our workforce. Sarah will talk about her experiences of embedding analytics within the local public sector system in North London, some of the everyday challenges, the strategies that have been successful locally, and the opportunities to do more with the move towards integrated care systems and population health management. She will also discuss why she thinks it's important that we have a diverse analytical workforce and ways that we can all support this. Laura will present preliminary descriptive analyses on the gender pay gap in the English NHS and outline the questions they raise for further analysis.

11:25 **Introduction to Working Group breakout sessions** *(plenary)*

Short elevator pitches outlining working group findings and introducing sessions below

11:45 **Working Group breakouts**

Structured interactive sessions on the PLETHORA working group themes as outlined below

12:45 **Lunch and posters**

13:30 **Plenary feedback from breakouts**

14:00 **MIXIT/MEXIT debate** Chair: Mike Pearson, Proposers: David Paynton & Dr Abraham George

The MIXIT view: if you receive care from the state then the state should be allowed to analyse your (anonymised) data for research and for improving care delivery.

The MEXIT view: we need to protect individual data. Data belong to the person that they describe. Privacy is essential and the risks of data sharing are too great.

15:15 **Where next?** *(Discussion led by Martin Pitt)*

15:30 **Keynote: Dominic Cushnan** *(Digital & Social Transformation, NHS Horizons, NHS England)*





The future is here: it is just not evenly distributed

The world of computing and the uses of algorithms has seen an exponential increase over the years. As healthcare professionals, what does this future hold for us and our patients? How do we share and learn from each other? How do we speed up the spread and adoption of useful tools and practices?

16:00 **Closing remarks**

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Keynote Speakers:

	<p>Martin Caunt, Senior Analytical Lead, Improvement Analytics Unit</p> <p>Martin is Programme Director of the Improvement Analytics Unit, an innovative partnership between the Health Foundation and NHS England that provides rapid feedback to the NHS and its partners on whether local initiatives are demonstrably improving care and efficiency. He leads a team of skilled analysts to develop the capability in the NHS to use routine data sets and advanced analytical methods to improve decision making. He joined NHS England from the Dept of Health where he was a policy & programme management professional in Adult Social Care for 3 years.</p>
	<p>Dr Abraham George, Consultant in Public Health, Kent County Council.</p> <p>Abraham has been working as Consultant in Public Health Medicine in Kent County since 2010, undertaking a wide ranging portfolio around Health Care Public Health including strategic leadership for health intelligence and the Kent Joint Strategic Needs Assessment. Part of his role has led to the creation of the Kent Integrated Dataset programme and has been promoting the use of whole population person level linked datasets for applied analytics to support system planning across Kent & Medway.</p>
	<p>Dr Sarah Dougan, Chief Analytical Officer (Islington), Consultant in Public Health</p> <p>Sarah is an epidemiologist and a specialist Public Health consultant in health intelligence. She has worked in Islington since 2009, building up a specialist public health knowledge and intelligence function. The team now also works across Camden and Haringey providing public health intelligence. She has leads on data and analytics across Islington Council, running the council's new 'Using Data Better' programme and directly oversees housing and adult social care analysis and dataset linkage.</p>
	<p>Laura Schlepper, Research Analyst, Nuffield Trust</p> <p>Laura works as Research Analyst at the Nuffield Trust, where she undertakes analysis and research on a range of projects relating to health and social care. Currently, she is conducting analysis on the gender pay gap in the NHS, using data from the Electronic Staff Record, and on patients' ability to interact with the NHS digitally. Laura holds an MSc in Mental Health Service & Population Research from the Institute of Psychiatry, Psychology & Neuroscience, King's College London, and has previously worked as research assistant in Child Public Health.</p>
	<p>Dominic Cushnan, Digital & Social Transformation, NHS Horizons, NHS England</p> <p>Dominic has been technical director of ad agencies, worked as a future schools consultant and, ran his own technology innovation company for 10 years and for the last 4 years passionately pursued how technology can be used to collaborate and improve the healthcare system by working in NHS Horizons, a team within in NHS England.</p>

PLETHORA - Working groups

<p>Working Group 1</p> <p><i>Leads:</i> Martin Pitt Jenny Morgan</p>	<p>Building Capacity and Capability in the NHS</p> <p>The aims of WG1 include undertaking a structured training needs analysis of the NHS, drawing on the experience of a range of stakeholders, to develop a full understanding of any shortfalls and how these need to be addressed; and developing an outline curriculum for teaching OR skills to healthcare professionals.</p>
<p>Working Group 2</p> <p><i>Leads:</i> Martin Utley Sonya Crowe</p>	<p>Modes of Engagement between Research and the NHS</p> <p>The aims of this WG include conducting a rapid literature and information search to survey current engagement initiatives between UK research and NHS institutions, and then outlining a plan of action and making recommendations for improving such engagement, drawing on the experience of existing schemes.</p>
<p>Working Group 3</p> <p><i>Leads:</i> Paul Stroner Stephen Lorrimer</p>	<p>Improving status, representation, and profile of NHS Analysts</p> <p>This WG is concerned with improving the professional status of NHS analysts, and retaining analytical expertise within the NHS by developing a recognised career pathway to senior management level. A related aim is increasing analytical skills and representation among senior decision makers, based on the hypothesis that the effective use of OR/analytics will only be sustained when there is sustained demand for analysis from Board-level management.</p>