



DRAFT PROGRAMME

Faced by increasing pressures on the national health system, NHS leaders are making the shift towards an evidence-based decision-making process to streamline and maximise resources for a better health and care delivery, as well as to promote healthier populations.

The inaugural **Health & Care Intelligence Congress** combines HSJ's access and understanding of NHS leadership challenges and AphA's deep knowledge of the transformative potential of analytics.

400+ health and care professionals will unite in Birmingham, with the shared aim of driving smarter decision making through maximising the impact of data and analytics, and generating a more efficient, preventative, and personalised health and care system. Join this **unique gathering of senior leaders, clinical and operational decision-makers, and the analyst community**, and together overcome the challenges of achieving better outcomes through generating better data to make better decisions.


What is the Health & Care Intelligence Congress?

- A one-day conference and awards on 6 December 2023
- Plenary sessions to unite clinical and operational decision-makers with the data and analytics community
- Three parallel tracks to allow more in-depth sessions for each profession
- An awards ceremony to celebrate best-practice case-studies and inspire practitioners
- A drinks reception to network and create connections from across the country

Early confirmed speakers:

- Ming Tang, Chief Data and Analytics Officer, **NHS England**
- Eilish Midlane, Chief Executive, **Royal Papworth Hospital NHS Foundation Trust (RPH)**
- Shane Devlin, Chief Executive, **Bristol, North Somerset and South Gloucestershire**
- Sam Allen, Chief Executive, **North East and North Cumbria Integrated Care System**
- David Probert, Chief Executive, **University College London Hospitals Foundation Trust**

- Gary Price, Chief Operating Officer, **Liverpool Women's NHS Foundation Trust**
- Rachna Vyas, Chief Operating Officer, Leicester, **Leicestershire and Rutland**
- Louise Ansari, Chief Executive, Healthwatch **England**
- Rowan Pritchard Jones (Prof), Executive Medical Director, **Cheshire & Merseyside Integrated Care System**
- Nicola Byrne, National Data Guardian for health and social care, **DHSC**
- Ben Goldacre, Director, **Bennett Institute for Applied Data**
- Charles Tallack, Director of Data Analytics, **The Health Foundation**
- Guy Northover, CCO and Lead Clinical Director, **Berkshire Healthcare NHS Foundation Trust**
- Peter Thomas, Chief Clinical Information Officer and Director of Digital Medicine, **Moorfields Eye Hospital**
- Iain Buchan (Prof), Leading Scientist, **Institute of Population Health, University of Liverpool**
- Maxine Power, Executive Director of Quality, Innovation and Improvement, **North West Ambulance Service Trust**
- Helen Davies, Clinical lead for community and PHM, **Calderdale Cares Partnership and NHS West Yorkshire ICB**
- David Howell, Joint Director for Strategic Insight and Analytics, **Surrey Heartlands Integrated Care System, NHS Surrey Heartlands**
- Phil Holland, Chief Information Officer, **The Princess Alexandra Hospital NHS Trust**
- Anthony Wilson, Consultant in Anaesthesia and Critical Care, Group Clinical Research Informatics Lead (HIVE EPR Programme), **Manchester University NHS FT**
- Vicky Clarke, Divisional General Manager, Family Health, **Liverpool Women's NHS Foundation Trust**

| 6 December 2023 | | |
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| 08:00 | Registration and refreshments |  <i>AphA members-only breakfast briefing</i> |
| 09:00 | Opening remarks | |
| 09:05 | <u>Keynote address</u> NHS England vision and guidance: Driving better health and care delivery through evidence-based decision-making | |
| 09:30 | <u>Panel discussion 1</u> Better outcomes for our patients – Evidence-based decision-making to tackle current pressures Working together to achieve the four core outcomes: a healthier population, reduced hospitalisation, a happier workforce, and costs reduction – through realising the opportunities of accurate information and intelligence to enable evidence-based decision-making. <ul style="list-style-type: none"> What are the practical benefits of better health intelligence to help support clinical and operational leaders make the right decisions to deliver better health and care services? What needs to happen for cultural change to spread across organisations at board and frontline levels and for our national health system to shift to a data-driven decision-making process? How can real time data help providers save money and clinicians save time? Developing evidence to help select investment priorities and target disinvestment. | |

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| | <ul style="list-style-type: none"> • Demonstrating the ROI of data and analytics and measuring the impact of resulting interventions. <p>Speakers:</p> <ul style="list-style-type: none"> – <i>Sam Allen, Chief Executive, North East and North Cumbria Integrated Care System</i> – <i>Shane Devlin, Chief Executive, Bristol, North Somerset and South Gloucestershire</i> | | |
| 10:15 | <p>Panel discussion 2 Using information responsibly – Ethics and governance for efficient and patient-centred health and care</p> <p>Building data and analytics systems around the needs of users and achieving the potential of healthcare intelligence without losing sight of our purpose.</p> <ul style="list-style-type: none"> • Do we know how to set up data strategies and strong governance approaches for an ethical use of patient data? • What is needed to build and maintain trust in the health and care system, whilst transitioning to a data-driven decision-making process? • How do we engage patients with data sharing to ensure we build the most accurate picture of their needs? • Can regulation follow the fast uptake of technology, and what do health and care professionals need to be wary of? <p>Speakers:</p> <ul style="list-style-type: none"> – <i>Louise Ansari, Chief Executive, Healthwatch England</i> – <i>Nicola Byrne, National Data Guardian for health and social care, DHSC</i> – <i>Anthony Wilson, Consultant in Anaesthesia and Critical Care, Group Clinical Research Informatics Lead (HIVE EPR Programme), Manchester University NHS FT</i> | | |
| 10:50 | Break | | |
| | Track A Better Data & Insights | Track B Better Decisions & Outcomes | Track C Workshops |
| 11:15 | <p>Panel 1 First, data – Gathering the right data and making the most of existing datasets</p> <p>Building the systems, capabilities and literacy needed for high quality datasets and continuous quality improvement.</p> <ul style="list-style-type: none"> • Collaborating with clinicians and frontline workers for better data collection and quality • Considering the purposes when developing or selecting systems solutions | <p>Panel 1 Evidence-based service redesign</p> <p>Improving health outcomes and providing accessible and high quality services through redesigning services to improve the interaction between service provider and patients and the patient's experience.</p> <ul style="list-style-type: none"> • Setting up a clear overview of capacity and demand at a trust and system level for more efficient allocation of resources • Improving visibility across services – from ambulance | <p>Workshop 1 Analytics – what does good look like?</p> <p>This workshop will gather a mixture of clinicians and analysts to define what good analysis looks like. One size does not fit all, and so how do clinicians know they receive the information they actually need to make decisions or identify patterns? And how do analysts interpret clinicians' requests to ask the right questions?</p> |

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| | <ul style="list-style-type: none"> Understanding existing data and its wider context | <p>waits, emergency handover delays, workforce shortages, high bed occupancy rates and community and care capacity</p> <ul style="list-style-type: none"> Encouraging autonomy, empowering staff to make decisions Updating services' skills and encourage staff to take on a wider range of clinical tasks | <ul style="list-style-type: none"> How do you make decisions when there is little qualitative data available? How can you get the data you need? How do we spot bad data and bad analysis? How can leaders determine whether the information they need is accurate, robust, and useful? How do we prevent data bias – how can we ensure inbuilt bias doesn't skew decision-making? |
| 11:55 | <p>Best-practice case-study 1: Building internal capacity for the data and analytics function</p> <p>Insights from practical experience on how to build a healthcare data and analytics team. Real-life tips on recruiting, retaining and upskilling data leads and analysts.</p> | <p>Best-practice case-study 1: Maximising our estates to improve patient flow</p> <p>Insights from practical experience on how data and tracking of both people and physical assets can help utilising space better for improved efficiency.</p> | <p>This workshop will focus on several practical examples and feature both function specific discussions and multidisciplinary conversations.</p> <p style="text-align: right;"><i>Limited places Pre-registration only</i></p> |
| 12:10 | Transition | | |
| 12:15 | <p>Practitioners' insights: Turning data into intelligence</p> <p>Case-study 2: Data visualisation – Presenting data to decision-makers and adapting to varied literacy levels <i>Phil Holland, Chief Information Officer, The Princess Alexandra Hospital NHS Trust</i></p> <p>Case-study 3: Predictive analytics, real time information and monitoring</p> | <p>Best-practice insights: Value of intelligence for clinicians and patients</p> <p>Case-study 2: Data science – what's in it for me and my patient?</p> <p>Case-study 3: Moving services into the community – how to choose, and what are the benefits?</p> | <p>Invite-only Board Leaders roundtable</p> <p>An intimate invitation only discussion, under Chatham House Rules, between Chief Executives and Board members on how to drive efficiencies across Systems and deliver quality health and care to our patients through the wider adoption of data-driven decision-making.</p> <ul style="list-style-type: none"> Evidence-based investment and disinvestment decisions System-wide capacity and demand management Efficient allocation of resources across systems |
| 13:00 | Lunch | | |
| 14:00 | <u>Interactive roundtables</u> | <u>Interactive roundtables</u> | <u>Workshop 2</u> Practical AI applications |

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| | <p>Peer-to-peer exchange – Better Data & Insights</p> <p>Attendees can choose from the below topics and will have 25min to explore one specific theme and exchange best practice with 10-15 of their peers.</p> <p>A final round-up will enable the entire audience to hear the take-aways from the tables they did not attend.</p> <p>Themes are around data and analytics:</p> <ul style="list-style-type: none"> • Table 1: Building data systems internally vs commissioning solutions • Table 2: AI practical applications and potential <i>David Howell, Joint Director for Strategic Insight and Analytics, Surrey Heartlands Integrated Care System, NHS Surrey Heartlands</i> • Table 3: Ensuring data quality for valuable insights • Table 4: Linking systems and datasets • Table 5: Recruiting, retaining and upskilling analysts • Table 6: Internal buy-in and cross-department collaboration | <p>Peer-to-peer exchange – Better Decisions & Outcomes</p> <p>Attendees can choose from the below topics and will have 25min to explore one specific theme and exchange best practice with 10-15 of their peers.</p> <p>A final round-up will enable the entire audience to hear the take-aways from the tables they did not attend.</p> <p>Themes are around operational and clinical applications of data and analytics:</p> <ul style="list-style-type: none"> • Table 1: Maximising the use of health and care infrastructure locally • Table 2: Workforce planning • Table 3: Optimising procurement and spending decisions thanks to better information and knowledge • Table 4: Driving PHM through better intelligence • Table 5: Partnering for research and better health • Table 6: Knowing your patient better for pro-active and preventative care • Table 7: Patients at home – maximising hospital space and increase the discharge of medically-fit patients | <p>Opportunities for driving efficiencies thanks to AI solutions.</p> <p><i>Introduction on some potential AI applications:</i></p> <ul style="list-style-type: none"> • Easier, qualitative, and accurate data collection • Analysis of large datasets and use of pattern recognition for early detection • Human decision support and error reduction in diagnosis and treatment <p><i>Focus groups on technology solutions implementation and implications:</i></p> <ul style="list-style-type: none"> • Natural Processing Language and Robotic Process Automation for better data collection • Machine learning for streamlining of processes and augmented clinical decision-making <p><i>Discussion on reducing the risks of AI to maximise the benefits safely:</i></p> <ul style="list-style-type: none"> • Rigorous testing regimes to improve statistical accuracy and reduce potential for error • Users and stakeholders’ engagement in AI systems development for comprehensive use and optimised efficiency <p style="text-align: right;"><i>Limited places Pre-registration only</i></p> |
| 14:45 | Transition | | |
| 14:50 | <p>Panel 2 Driving System-wide intelligence</p> | <p>Panel 2 Optimising clinical pathways for better health and care delivery</p> | <p>Workshop 3 Unlocking the power of collaboration</p> |

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| | <p>Overcoming the interoperability and data sharing challenges across ICSs and sectors.</p> <ul style="list-style-type: none"> • Navigating governance and differing data sharing agreements • Managing stakeholder access to data and increasing the amount of data processed through secured data environments • Structuring data for easy access to information at different levels from neighbourhood, place, system to national • Tackling the interoperability challenge and ensuring consistent data flow across an organisation or system <p>Speakers:</p> <ul style="list-style-type: none"> – <i>David Howell, Joint Director for Strategic Insight and Analytics, Surrey Heartlands Integrated Care System, NHS Surrey Heartlands</i> | <p>Transforming care pathways to improve patient flow and health outcomes, as well as encourage a better use of hospital resources and staff time.</p> <ul style="list-style-type: none"> • Identifying gaps and pressure points in patient pathways • Controlling and managing demand • Reducing backlog and efficiently moving patients along through treatment • Effective discharge planning for timely discharge and continuity and care | <p>Making the most of intelligence for evidence-based decision-making and improved outcomes. A practical workshop where a group of analysts joins clinical and operational decision-makers to work on real life cases to find solutions together.</p> <ul style="list-style-type: none"> • Maximising workforce planning and resource management • Redesigning services for tangible impact and outcomes • Effective discharge and reduction of hospitalization rates <p style="text-align: right;"><i>Limited places Pre-registration only</i></p> |
| 15:35 | Break | | |
| 16:00 | <p><u>Keynote address</u> Update on the Federated Data Platform: What are the opportunities for ICSs and trusts going forward? What difference has it made so far and what it means for the sector going forward.</p> | | |
| 16:25 | <p><u>Spark talk</u> Learning from other industries to accelerate the uptake of data-driven decision making A leader from another sector talks through their data and analytics journey, and how some of the common operational and financial challenges were overcome.</p> | | |

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| 16:45 | <p>Panel discussion 3 Shifting towards a predictive and preventative system: Optimising population health outcomes through system-wide evidence-based decision making</p> <p>The NHS and social care sector jointly have a wealth of data that is not being utilised to the best of its potential. The opportunities for change and practical improvement in both clinical and operational areas have been explored throughout the day, but what concrete interventions can we take now to get to the next stage to move away from data aggregation and see health outcomes improvements across systems?</p> <ul style="list-style-type: none"> • How can the new intelligence functions of ICS help drive a more holistic approach of patient care? • How can we reduce inequalities amongst health and care organisations and get everyone on a similar level of maturity and capability? • Knowing your local populations better and predicting disease risk – the opportunity of robust genomics data • Putting intelligence into action – how can interventions be designed based on the gathered evidence? • How can we demonstrate both to boards and the public the impact of population health management? <p><i>Speakers:</i></p> <ul style="list-style-type: none"> – <i>Charles Tallack, Director of Data Analytics, The Health Foundation</i> – <i>Rachna Vyas, Chief Operating Officer, Leicester, Leicestershire and Rutland</i> |
| 17:30 | Closing remarks |
| 17:30 | Project Showcase and Prize giving and drinks reception |