

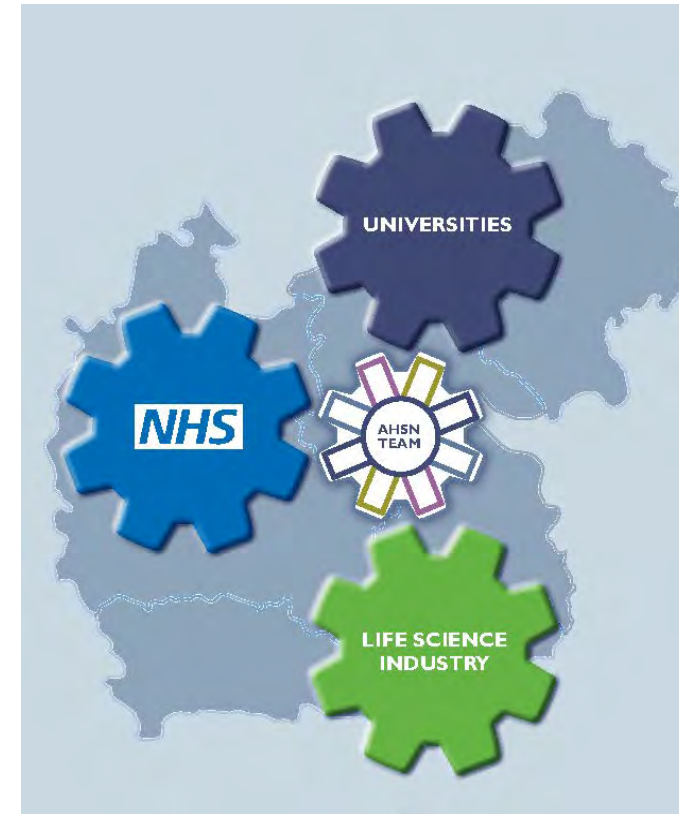


Innovation and Impact

Dr Paul Durrands
Chief Operating Officer, Oxford
AHSN

Oxford AHSN

- 7 programmes and themes
- 100+ collaborative projects
- 50+ innovations
- 30+ industry partnerships
- 3 million people
- 11 NHS Trusts
- 65,000 NHS staff
- 9 universities
- Working with 4 STPs and 3 accountable care systems
- 750 life science companies
- 1 information governance framework – all trusts signed up
- 2,020 newsletter subscribers and 2,950 Twitter followers





ComRes independent stakeholder survey

- 563 respondents to survey (26% of those contacted) – more than 50% from NHS frontline
- 80% said network building culture of collaboration and partnership
- 64% said network adds value to their work
- *“They’re listening, identifying challenges and trying to help us solve problems”* NHS provider
- *“Without the likes of the AHSN small companies would really, really struggle to get any traction with the NHS”*

You can read the full report here: <http://bit.ly/OxfordAHSNsurvey>



Highlight Workforce Health and wellbeing



“Physical activity reaches the very foundation of illness and helps prevent 23 diseases including depression, diabetes and dementia. An active workforce results in 27% fewer days lost to sickness with productivity increasing by up to 15%”
Dr William Bird, Intelligent Health

“No effort is too small. Start wherever you can and keep going”



Highlight Sustainability





Highlight Dementia Clinical Network

Webinar programme promotes stakeholder engagement, professional development and dissemination of research

- Fortnightly webinars presented by clinicians, managers and academics, local and national
- 37 webinars run so far, mailing list of 350 people from AHSN geography and beyond
- Topics included
 - Dementia and depression
 - Role of speech and language therapist in the memory clinic
 - Safe and effective prescribing for older adults
 - A roundup of RCTs
- Post-diagnostic support in a memory assessment service
- Respondents to survey reported that more than half of the webinar attendances had resulted in change of practice

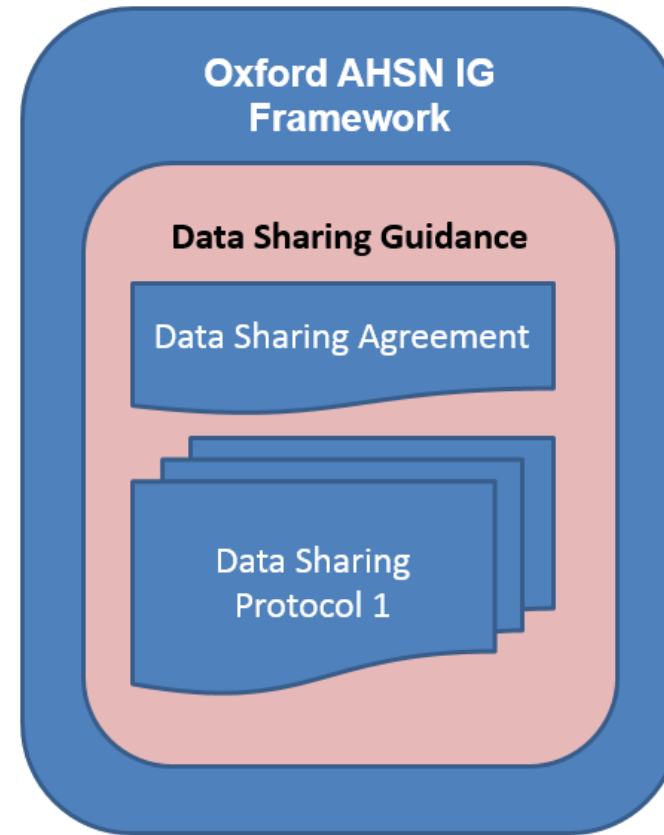
'I just wanted to thank you very much for the particularly excellent webinar on Wednesday. The webinars are always of a consistently high standard and I very much appreciate them..... the webinar really helped me make sense of the research and reading that I have previously done '

Webinar participant



Highlight

Data sharing across the region



“The Oxford AHSN team has created an exemplar for information-sharing between partner organisations”

Dr Chris Bunch, Oxford University Hospitals Caldicott Guardian



Wide range of clinical areas and technologies examples

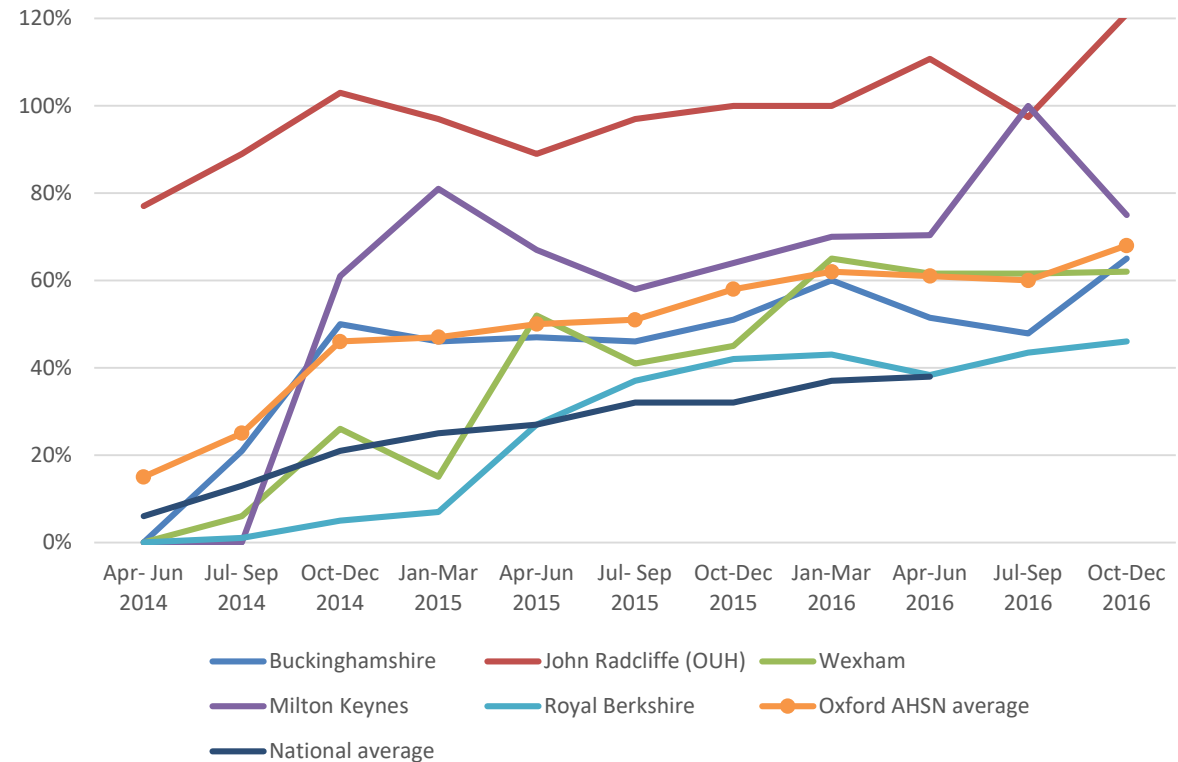
Clinical Area	Medicines	Medical Devices	Digital Health	Diagnostics
Stroke	<ul style="list-style-type: none"> • NOACs 	<ul style="list-style-type: none"> • Intermittent Pneumatic Compression Sleeves 		<ul style="list-style-type: none"> • Point of care
Diabetes			<ul style="list-style-type: none"> • Gestational Diabetes Monitoring 	
Sepsis				<ul style="list-style-type: none"> • Curetis Unyvero™ system
Safety		<ul style="list-style-type: none"> • Pneux • WireSafe • Non-injectable connectors 	<ul style="list-style-type: none"> • Intelligent Ultrasound 	
Respiratory				<ul style="list-style-type: none"> • Circassia NIOX® FeNo Point of Care (PoC)
Patient mobility		<ul style="list-style-type: none"> • Gyroset 		
Ambulatory care			<ul style="list-style-type: none"> • Isansys patient monitoring 	
Prevention				<ul style="list-style-type: none"> • Somascan

Adoption example

Intermittent Pneumatic Compression Sleeves

- AHSN approach has significantly increased IPC sleeve utilisation rates compared to the rest of the country.
- Over 16/17 performance across the region remained steady, increasing to an average of 68% for Oct-Dec 2016
- OHE independent study found that driving adoption beyond national average prevented an additional 22 DVTs, 2 PEs and 12 deaths over first 18 months of project
- Assuming utilisation maintained by end of AHSN licence, 2500 patients across the region will have received IPC sleeves. This represents the potential for 125 fewer DVTs, 75 fewer deaths and 13 fewer PEs over the lifetime of the project.

% IPC Sleeve utilisation in the immobile patient cohort

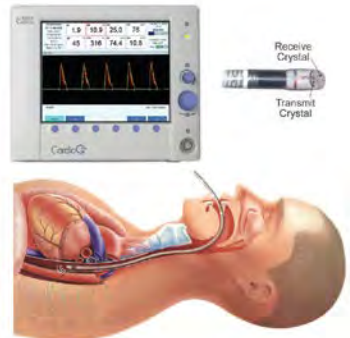




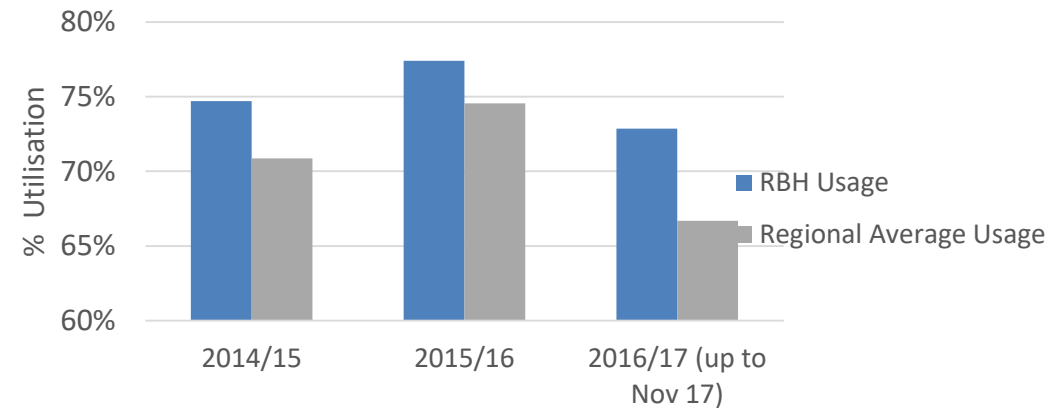
Adoption example

Intra-Operative Fluid Management (IOFM)

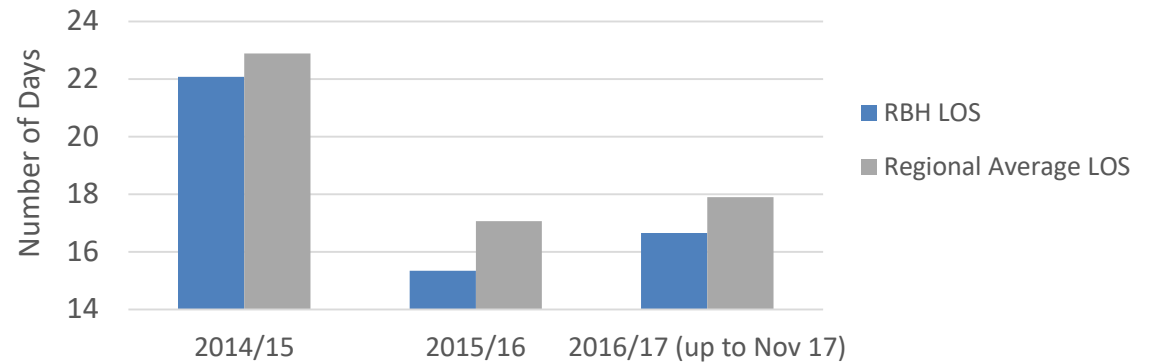
- Use of IOFM Technology enables anaesthetists to monitor patient’s hydration status during major and high-risk surgery
- Utilisation of IOFM at RBH in emergency laparotomies has been higher than the regional average over last 3 years of project
- RBH achieves one of the lowest LOS for emergency laparotomy procedures in the region which could be linked to IOFM usage



Utilisation of IOFM as a percentage of total emergency laparotomy cases



Average Length of Stay for emergency laparotomies



Examples of innovation – latest projects to improve patient safety

- Read more in our Patient Safety annual report – copies available here today

Non-injectable arterial connector



This improves safety for all patients requiring an arterial line in operating theatres and intensive care by preventing drug administration via the wrong route, bacterial contamination of the arterial line and blood spillages.

WireSafe



This is an engineered solution to prevent retention of the central line guidewires that are used when inserting large catheters into central veins.

PneuX System



A cuffed ventilation tube and an electronic cuff monitoring and inflating device that prevents leakage of bacteria-laden oral and stomach contents to the lung.



Impact




47,000
Patients recovered
or avoided harm



200
Lives saved



£31m
New investment and savings
brought into the economy



Return = **2.5** times the
cost of the Oxford AHSN



100s
of projects



2,500
networked clinicians



300+
innovations assessed



33
innovations implemented across
medicines, devices, digital and diagnostics



2,500
people attended events organised
by or sponsored by Oxford AHSN



Sector	Indication	Product	Setting
Diagnostics	Range of markers	iStat (PoC)	Out of Hours
Diagnostics	Infection	FBC, CRP Microsemi	Acute
Diagnostics	Cardiovascular	SomaScan CV	Primary
Diagnostics	Stroke	PoC	Ambulance
Diagnostics	IBD	Calprotectin	Acute
Diagnostics	Pre-eclampsia	Elecsys	Acute
Diagnostics	Asthma/COPD	NIOX FeNo	Primary
Digital	Oncology	Digital stratification tool	Primary/Acute
Digital	Digital audit	Ultrasound	Secondary
Digital	Vital signs	Patient Status Engine	Ambulatory
Medtech	Wheelchair control	Gyroset for quadraplegics	Rehab/Home

Examples of Diagnostic Projects

In Progress



- Extension from using point of care diagnostics in the EMUs to Out of Hours GP vehicles for use in the community sponsored by a health foundation grant
- Study will assess the benefits of PoC in an Out of Hours setting using Abbott iStat



- Evaluation of Horiba Microsemi^{CRP*} in Oxford University Hospitals NHS FT, Stoke Mandeville Hospital and Wexham Park
- Testing of a CRP and whole blood assay in emergency departments to better diagnose those children with severe infection and to reduce unnecessary admissions

In Planning



- Assessment of proteomic profiles using SOMAScan[®] of NHS Health Check participants in collaboration with GP practices in Bucks
- Develop a model of risk across the study population that assesses the impact of pharmacological and lifestyle interventions



- Offers a single protocol for sample preparation with potential to assess a 100 analytes within a few hours in a PoC setting
- Assessment of Unyvero system in infectious diseases in Oxford University Hospitals NHS FT and Royal Berkshire Hospital about to start



Examples of projects the trusts are involved with:

Programme	Example
Best Care	Dementia and accreditation of memory clinics and webinars Anxiety & Depression - IAPT
Clinical Innovation Adoption	Excellence in AF - NOACs Intra Operative Fluid Management Bucks CC work on alcohol and drug misuse Data sharing for falls
Industry Partnerships	Life Sciences Innovation Centre SOMAScan™ for primary care
Patient Safety	Use of paediatric sepsis screening tool Reducing admissions from AKI Reducing pressure ulcers CAUTI in the community



Future

- Innovations need to get into the NHS more quickly and cheaply
- The AAR identified AHSNs as playing a key role in identifying and adopting new transformative products
- Oxford AHSN focus on Innovation Adoption, Industry Partnerships and Patient Safety
- Innovation – medicines, medical devices, digital technology and diagnostics
- Different challenges to adoption even for innovation with strong case for adoption – eg need for pathway changes, funding changes, affordability, clinical leadership capacity



Accelerated Access Review: Final Report

Review of innovative medicines and medical technologies
An independently chaired report, supported by the Wellcome Trust

