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## International Meeting on Advancing the Science & Impact of Audit and Feedback (A&F)

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**6th June**, Room 9.57 Worsley Building, University of Leeds  
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**7th June**, Doubletree by Hilton Hotel, Granary Wharf, Leeds



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# International Meeting on Advancing the Science and Impact of Audit & Feedback

## Overview

Welcome to the international meeting on advancing the science and impact of audit and feedback (A&F) taking place in Leeds, UK.

A&F is commonly used to improve the delivery and outcomes of healthcare. A&F generally has small to moderate and variable effects on patient care. There is a limited understanding of the reasons for this variation in effects. There are major opportunities to reduce research waste in this field, and advance the science and impact of A&F. We are building upon the first meeting of the A&F Collaborative, founded in Ottawa in 2016. We are an international community of health researchers and health system partners that undertake shared activities to enhance the provision of audit and feedback to improve health care performance, patient outcomes and health system sustainability.



Social Media

We encourage you to share your experience via social media using the provided hashtag **#AF2017**

## Agenda for 6th June

Time	Topic	Speakers
9.30-10.00	Registration and welcome	
10.00-10.10	Welcome, overview, introductions	Sarah Alderson
<b>Session 1</b>	<b>Current knowledge and opinions – including updates from Ottawa 2016</b>	<b>Chair: Sarah Alderson</b>
10.10-10.25	A&F Cochrane Review	Noah Ivers
10.25-10.40	Recommendations and theoretical hypotheses for effective feedback	Heather Colquhoun
10.40-11.10	Implementation laboratories and meta-laboratories: rationale, aims and progress	Jeremy Grimshaw
11.10-11.30	Questions & Discussion	All delegates
11.30-12.00	Coffee Break	
<b>Session 2</b>	<b>Examples of A&amp;F studies and laboratories</b>	<b>Chair: Liz Glidewell</b>
12.00-12.15	Translation Research in a Dental setting (TRiADs)	Craig Ramsay
12.15-12.30	The development and evaluation of enhanced audit and feedback interventions to increase the uptake of evidence-based transfusion practice (AFFINITIE)	Natalie Gould/Fabiana Lorencatto
12.30-12.45	BORN Maternal New Dashboard study	Sandra Dunn
12.45-1.00	Questions & discussion	All delegates
1.00-2.00	Lunch (networking opportunity)	
<b>Parallel Session 1</b>	<b>Methodology</b>	<b>Chair: Fabiana Lorencatto</b>
2.00-2.15	Theory and evidence-based design of audit and feedback	Sylvia Hysong
2.15-2.30	Action to Support Practices Implementing Research Evidence (ASPIRE)	Tom Willis
2.30-2.45	Campaign to Reduce Opioid Prescribing (CROP): Using routine data	Sarah Alderson
2.45-3.00	300+ ways to Improve Feedback – Now what?	Jamie Brehaut
3.00-3.30	Questions and Discussion	All delegates
<b>Parallel Session 2</b>	<b>Methodology</b>	<b>Chair: Rebecca Randell</b>
2.00-2.15	Modeling graphical displays for tailored clinical performance feedback	Zach Landis-Lewis
2.15-2.30	A meta-synthesis of findings from qualitative studies of audit and feedback interventions.	Ben Brown
2.30-2.45	Electronic Audit & Feedback Interventions	Niels Peek
2.45-3.00	Optimizing electronic audit and feedback through unobtrusive quantitative process evaluations	Wouter Gude
3.00-3.30	Questions and Discussion	All delegates
3.30-4.00	Coffee break	
<b>Session 3</b>	<b>Optimising the outputs of National Clinical Audits</b>	<b>Chair: Tom Willis</b>
4.00-4.15	Overview	Robbie Foy
4.15-5.00	Discussion on the primary outcome	Rebecca Walwyn/Jill Fran
5.00-5.40	Moving things forward	Robbie Foy
5.50-6.00	<b>Overview of Day 2, action planning and summing up</b>	Tom Willis

## Agenda for 7th June

Time	Topic	Speakers
<b>9.30-10.00</b>	Registration and welcome	
<b>Session 1</b>	<b>Introduction and aim of the meeting</b>	<b>Chair: Robbie Foy</b>
10.00-10.10	Introduction and aim of the meeting	Robbie Foy
10.10-10.20	Overview of what we know and don't know about audit and feedback (+/- introduction to laboratories)	Noah Ivers
10.20-10.30	Best practice in audit and feedback	Jamie Brehaut
10.30-10.45	Questions & Discussion	All delegates
<b>Session 2</b>	<b>Improving the conduct, delivery and impact of national audits</b>	
10.45-10.55	Improving the impact of national audits	Kirsten Windfuhr
10.55-11.05	An audit of audits	Tasneem Khan
11.05-11.15	Questions & discussion	All delegates
<b>11.15-11.30</b>	Coffee	
<b>Session 3</b>	<b>Examples of good practice and research questions posed by national audits</b>	<b>Chair: Simon Stanworth</b>
11.30-11.40	Trauma Audit and Research Network	Antoinette Edwards
11.40-11.50	National Diabetes Audit	Cher Cartwright
11.50-12.00	Using Feedback to Improve Hip Fracture Care: Experience from the National Hip Fracture Database (NHFD)	Bill Majrowski & Meghan Liddicoat
12.00-12.10	Bringing big data to quality improvement to the Sentinel Stroke National Audit Programme (SSNAP)	George Dunn
12.10-12.20	Questions and discussion	All delegates
<b>Session 4</b>	<b>Meta-laboratories introduction</b>	
12.20-12.50	Meta-laboratories: rationale, aims and progress	Jeremy Grimshaw
<b>12.50-1.50</b>	Lunch (networking opportunity)	
<b>Session 5</b>	<b>Illustrative partnerships and laboratories</b>	<b>Chair: Jill Francis</b>
1.50-2.05	Reducing Antibiotic Prescribing in Dentistry (RAPiD)	Craig Ramsay
2.05-2.20	The development and evaluation of enhanced audit and feedback interventions to increase the uptake of evidence-based transfusion practice (AFFINITIE)	Natalie Gould/ Fabiana Lorenatto
2.20-2.35	Optimising the outputs of National Clinical Audits to support organisations to improve the quality of care and clinical outcomes	Robbie Foy
2.35-2.50	QualDash: Designing and evaluating an interactive dashboard to improve quality of care	Rebecca Randell
2.50-3.00	Questions and discussion, closing remarks	All delegates
3.00	Close	Robbie Foy
<b>3.00-4.00</b>	Coffee	
<b>4.00-6.00</b>	<b>ASPIRE dissemination (separate event)</b>	ASPIRE team
<b>6.00</b>	Close	

## Speaker & Chair Biographies (A-Z)



**Dr Sarah Alderson** is a NIHR Clinical Lecturer in primary care at the University of Leeds and a session general practitioner in Halifax, West Yorkshire. After being a full time GP for three years, Sarah studied for her PhD on Patients understanding of depression associated with chronic disease. Her current research continues to look at mental and physical disease co-morbidity and understanding behaviour and behaviour change in order to embed interventions targeting patients and professionals within primary care, particularly the use of audit and feedback interventions.



**Dr Jamie Brehaut** is a Senior Scientist with the Ottawa Hospital Research Institute, and Associate Professor in the School of Epidemiology and Public Health at the University of Ottawa. Dr Brehaut holds a PhD in Cognitive Psychology from McMaster University. Trained in issues of human memory, attention, and cognition, Dr. Brehaut also has expertise in psychological theory, knowledge translation, judgement and decision making, decision support, computer usability techniques, and issues of caregiver health. Much of his work focuses on the application of psychological theory to facilitate health care practice change and the ethics of health care decision making.

**Benjamin Brown** is a GP finishing his PhD in Health Informatics funded by the Wellcome Trust. During his PhD he has developed a theoretical model for optimising audit and feedback interventions, which he has used to inform the design of novel quality improvement software for GP practices. Ben trained to be a GP as a National Institute for Health Research (NIHR) Academic Clinical Fellow, and prior to this worked in regional NHS management. He holds an MSc from The University of Birmingham's Health Services Management Centre, and is studying towards a Masters in Public Health.



**Cher Cartwright** joined NHS Digital in 2013, and for the past 2 years has worked in the Clinical Audit and Registries Management Service within NHS Digital as the Audit Manager for the National Diabetes Audit (NDA) overseeing the delivery of the NDA Programme. Prior to this Cher has 13 years' experience in academia and clinical trials. Cher was a post-doctorate researcher at the University of Sheffield working on a Leukaemia Research Fund grant investigating drug metabolism and pharmacogenetics in children with leukaemia as part of the acute lymphoblastic leukaemia clinical trials.



**Heather Colquhoun** PhD, OT Reg. (Ont.) is an Assistant Professor in the Occupational Science and Occupational Therapy Department at the University of Toronto. Dr Colquhoun is a knowledge translation (KT) scientist with a focus on identifying, prioritizing and closing evidence-to-practice gaps in healthcare. Her research focuses on the science of KT including the application of behaviour change theory to KT problems, KT intervention design, and investigation of intervention terminology issues in KT science. She has a keen interest in the use of Audit and Feedback (A&F) to improve health care delivery. She has authored several papers on A&F related to theory use, optimization, design elements and best practices.







**Robbie Foy** is Professor of Primary Care at the Leeds Institute of Health Sciences and a general practitioner in inner-city Leeds. His field of work, implementation research, aims to inform policy decisions about how best to use resources to improve the uptake of research findings by evaluating approaches to change professional and organisational behaviour. His former posts include a clinical senior lectureship at Newcastle University, and an MRC training fellowship in health services research based jointly between the Universities of Edinburgh and Aberdeen. He is also trained as a public health physician. He was a 2006-7 Harkness / Health Foundation Fellow in Health Care Policy, based jointly between the Veteran's Administration and RAND in Los Angeles. He was Deputy Editor-in-Chief of the open access journal, Implementation Science, until 2015.



**Jill Francis** is a Chartered Health Psychologist, specialising in behaviour change to improve health and health care. She has worked at universities in Australia (LaTrobe University) and the UK (London, Aberdeen, Newcastle-upon-Tyne). She is currently Professor of Health Services Research in the School of Health Sciences at City, University of London and a Visiting Scientist at the Ottawa Hospital Research Institute. Jill completed a PhD at the University of Melbourne in 1998. In the past 15 years she has developed an interest in health psychology, with a particular emphasis on behaviour change, implementation research and complex intervention methodology. She collaborates with research teams across the UK, Canada and Australia.



**Dr Natalie Gould** is a post-doctoral research fellow at City, University of London (UK). She is working on a project aiming to enhance audit and feedback interventions to reduce unnecessary blood transfusions in UK hospitals, funded by the UK National Institute of Health Research. She has a PhD in the psychology of appetite from University of Sussex (UK). Her main research areas of interest are health behaviours, behaviour change, implementation research, obesity and the psychology of appetite.





**Dr Jeremy Grimshaw** received a MBChB from the University of Edinburgh, UK. He trained as a family physician prior to undertaking a PhD in health services research at the University of Aberdeen. He moved to Canada in 2002. His research focuses on the evaluation of interventions to disseminate and implement evidence-based practice. Dr Grimshaw is a Senior Scientist, Clinical Epidemiology Program, Ottawa Hospital Research Institute, a Full Professor in the Department of Medicine, University of Ottawa and a Tier 1 Canada Research Chair in Health Knowledge Transfer and Uptake. He is a Fellow of the

Canadian Academy of Health Sciences and a Corresponding Fellow of the Royal College of Edinburgh. He was formerly Director of Cochrane Canada and the Co-coordinating Editor of the Cochrane Effective Practice and Organisation of Care group. He was also the Principal Investigator of Knowledge Translation Canada (KT CANADA), a CIHR and CFI funded interdisciplinary network of over 50 knowledge translation researchers from six academic health science centres in three provinces. He has over 500 peer reviewed publications.



**Wouter Gude** is a third year PhD candidate in Medical Informatics at the Academic Medical Center / University of Amsterdam. His PhD focuses on increasing the understanding and effectiveness of health informatics interventions; audit and feedback in particular. He is especially interested in performing theory-informed evaluations of digital interventions, and harnessing electronic data that are a by-product of their use to study their mechanisms of action quantitatively and unobtrusively. He is involved in three audit and feedback interventions in

different clinical fields and settings: cardiac rehabilitation and intensive care (both in the Netherlands), and primary care (in Greater Manchester, UK).



**Sylvia J. Hysong**, Ph.D. is an Associate Professor of Medicine at Baylor College of Medicine, and a Lead Research Scientist at the Center for Innovations in Quality, Effectiveness and Safety (IQuEST). She is an industrial/organizational psychologist with nearly two decades conducting implementation and organizational research. Currently the principal investigator of three government-funded grants, her research interests include primary health care as a work environment, performance measurement, feedback systems, and team coordination.

She has authored 47 peer-reviewed publications, over 120 national and international presentations, and serves on of the U.S. Department of Veterans Affairs Health Services Research & Development Scientific Merit Review Board.

**Noah Ivers** is a scientist at Women's College Research Institute (WCRI) and adjunct scientist at the Institute for Clinical Evaluative Sciences (ICES). He is also a family physician at Women's College Hospital (WCH) and an Assistant Professor in the Department of Family and Community Medicine and at the Institute for Health Policy, Management and Evaluation at the University of Toronto. Noah's research focuses on the use of data to drive decision making in healthcare and draws on a foundation in clinical epidemiology and health services research. He is supported by New Investigator Awards from CIHR and from the Department of Family and Community Medicine, University of Toronto.



**Dr Tasneem Khan** is an NIHR Academic Clinical Fellow in General Practice based at the University of Leeds. Tasneem did her preclinical studies at the University of Cambridge after which she gained her medical degree from Oxford. She then went on to complete her Foundation clinical training in West Yorkshire and is currently in her second year of GP training in Bradford. Tasneem's current research interests are centred around audit and feedback, in particular looking at the feedback methods used in the National Clinical Audits within the UK.

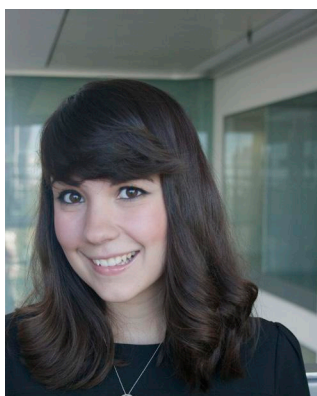


**Zach Landis-Lewis** is an Assistant Professor of Learning Health Sciences at the University of Michigan Medical School. He is developing software to support automated tailoring of clinical performance feedback for healthcare professionals and teams. He teaches a course on knowledge representation and knowledge management to graduate students at the University of Michigan. His research incorporates a global health focus, addressing the modeling of clinical practice guidelines in low-income countries for the purpose of developing automated performance feedback to support guideline implementation. He received a PhD in Biomedical Informatics and a Master of Library and Information Science from the University of Pittsburgh





My name is **Meghan Liddicoat**, I am a Project Manager for the Falls and Fragility Fracture Audit Programme (FFFAP) run by the Royal College of Physicians (RCP). I have a strong clinical background in community care, paediatric orthopaedic theatre nursing and consulting for a private orthopaedic company specifically in limb reconstruction. My previous position was in project management with the main role of commissioning the operating theatres for a new children's hospital in Perth, Western Australia. I moved to London from Australia in 2016 and began work at the Royal College of Physicians managing the new physiotherapy hip sprint audit commissioned by the Chartered Society of Physiotherapy (CSP).

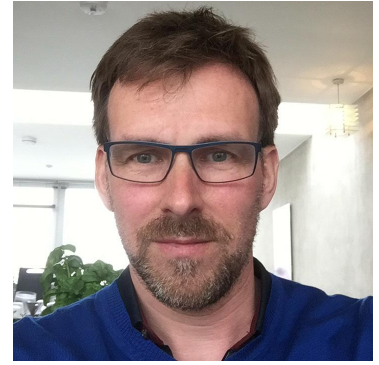


**Dr Fabiana Lorencatto** is a post-doctoral research fellow at the Centre for Health Services Research and Management at City University London (UK). She holds a Ph.D. in Health Psychology from University College London (UK). Her main research interests include implementation research/knowledge translation, specifically the application of psychological and behavioural theory to inform the development and evaluation of interventions to change healthcare professional behaviour. She currently works primarily on a 5-year programme of research funded by the UK National Institute of Health Research that aims to develop and evaluate two theoretically enhanced audit and feedback interventions to reduce unnecessary blood transfusions in UK hospitals.

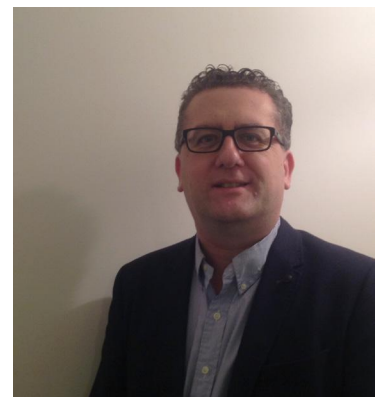


**Bill Majrowski** started his career working as a psychiatric nurse in the NHS and subsequently worked with pre-school children with neurodevelopmental disorders and acquired brain injury. He holds a Masters Degree in Public Health from St George's Hospital Medical School and has worked for the Kings Fund, Public Health England and the National Patient Safety Agency. He has extensive experience of working in the field of Clinical Audit, Clinical Governance, Quality Improvement and Patient Safety.

**Dr Niels Peek** is Reader in Health Informatics at the University of Manchester, and director of the Greater Manchester Connected Health City which is part of the £20M “Health North” investment to establish learning health systems in North England. His research focuses on data-driven informatics methods for clinical decision making and healthcare quality improvement. Dr Peek has co-authored over 150 peer-reviewed, scientific publications. In April 2017, he organised the Informatics for Health 2017 conference in Manchester which was attended by more than 800 people from 30 countries.



**Craig Ramsay** is Director of Scotland's Chief Scientist Office funded Health Services Research Unit, University of Aberdeen and Professor of healthcare evaluation. He has wide ranging research interests in health services research with expertise in knowledge translation research, surgical trial evaluation, and quasi-experimental study designs. He currently co-leads a national initiative of knowledge translation research in dental services in Scotland (The TriaDS programme). He also directs the Aberdeen Health Technology Assessment Group, which is the only academic centre in Scotland responsible for providing technology assessment reports for NICE.



**Rebecca Randell** is a lecturer in the School of Healthcare at the University of Leeds. Although she has a background in software engineering, her research is very much focused on the social. Using predominantly qualitative methods, she has been involved in the design and evaluation of health IT in a range of settings. She was co-investigator on an NIHR funded project looking at how health IT is used from ward level to hospital board level for monitoring care quality. Recent research has employed realist evaluation to understand how contextual factors affect how people choose to make use of health IT and how this impacts care delivery.





### **Simon Stanworth**

Simon Stanworth is a consultant haematologist between Oxford University Hospitals NHS Foundation Trust and NHS Blood & Transplant. He is an Honorary Senior Clinical Lecturer at the University of Oxford. His training was in general paediatrics prior to haematology. His clinical research interests include prevention and management of bleeding and coagulopathy in settings such as trauma, critical care, and haematology in adults and children, and enhancing 'audit & feedback'. He is involved in a

number of clinical trials, laboratory studies, systematic reviews and other projects in his role as Principal Investigator, Clinical Research for NHSBT.



**Rebecca Walwyn** holds a PhD in Biostatistics (University of Manchester) and an MSc in Social Statistics (University of Southampton). She joined the CTRU in January 2011 having spent 9 years working at the Institute of Psychiatry in London. She has experience of working on Phase III RCTs and feasibility studies mainly in mental health but also in blood transfusion and cardiovascular disease. She has expertise in the design and analysis of complex intervention trials.



**Tom Willis** is a Senior Research Fellow in the Academic Unit of Primary Care, University of Leeds. Since 2012 he has managed Action to Support Practices Implementing Research Evidence (ASPIRE), a £2 million research programme funded by the National Institute for Health Research. ASPIRE aims to develop and test ways to support general practices in implementing evidence-based practice effectively and realistically within the constraints and challenges of real-life general practice. After completion of his PhD in Psychology in 2006, Tom has worked on a range of projects

relating to health and psychology, including evaluation of interventions to prevent child obesity, and the psychological impact of genetic testing. He has previously worked at the Institute of Psychiatry, King's College London, and St George's, University of London.

**Kirsten Windfuhr** is an associate director for quality and development at HQIP (Health Quality Improvement Partnership) and is responsible for guidance at both programme and individual project level in relation to the national clinical audit portfolio. She is also a Research Fellow and Senior Project Manager for the National Confidential Inquiry into Suicide and Homicide by People with Mental Illness (NCISH), part of the Centre for Mental Health and Risk at the University of Manchester. Dr Windfuhr received her PhD in Psychology from the University of York (UK) in 1999 and went on to study for an MA in Health Care Ethics and Law from the University of Manchester in 2006. For the past decade, her research interests have focused on suicide and suicide prevention in patients with mental illness, with a particular interest in child and adolescent suicide.



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## Meeting Planning Committee

Dr Sarah Alderson  
Dr Robbie Foy  
Ms Wendy Hobson  
Dr Tom Willis

## Contact Information

Ms Wendy Hobson  
Senior Academic Support Secretary  
Leeds Institute of Health Sciences  
10.89, Level 10  
Worsley Building  
Clarendon Way  
LEEDS  
LS2 9JT

Telephone: +44 (0) 113 3430837

email: [w.hobson@leeds.ac.uk](mailto:w.hobson@leeds.ac.uk)

# NOTES



# NOTES

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**The Ottawa  
Hospital**

RESEARCH  
INSTITUTE

**L'Hôpital  
d'Ottawa**

INSTITUT DE  
RECHERCHE

**Inspired** by research.  
**Driven** by compassion.

**Inspiré** par la recherche.  
**Guidé** par la compassion.

## The International Audit and Feedback Collective

**Our Mission:** to move beyond 'business as usual' in Audit and Feedback, and towards learning from one another and from the evidence on what works best in the design and delivery of feedback to improve healthcare.

### What we will do

- ✓ Foster partnerships between research and practice to optimize feedback for healthcare improvement
- ✓ Provide access to expertise in theory and methods for feedback design and evaluation
- ✓ Provide online resources
- ✓ Organize meetings and symposia

**Want more information, updates and/or join the collective?**

**Get in touch: [vperreault@ohri.ca](mailto:vperreault@ohri.ca)**

**Please give this card to anyone else in your organization who might be interested.**

### Key references

Cochrane Review: Ivers et al (2012) *Cochrane Database*

15 suggestions for optimizing feedback effectiveness: Brehaut et al (2016) *Annals of Internal Medicine*

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