

Faculty of Clinical Informatics

Annual Members Conference

Tuesday 15th December 2020

Virtual Conference



**CPD
accredited**

The Faculty of
Clinical Informatics

FCI Annual Members Conference Programme

Part 1

14.00 Welcome and Introduction

Chair: Dr Tashfeen Kholasi *Dentist, CCIO, CSO and FCI Fellow*

14.05 Data Driven Care - Personal Reflections of an NHS Director

Professor Sultan Mahmud

Director of Innovation and Integration

Royal Wolverhampton Hospital

This is the subjective lived-in journey of an NHS director at the sharp end of digital innovation. The talk will focus on using a data driven approach to drive care processes in large integrated NHS Trust with case studies to provoke reflection and questions.

It will be fun!

14.20 Questions and Answers

14.30 Associate Network 'In a Nutshell' Presentations

Chairs: Louise Wilson *Hon Researcher, University of Newcastle and Associate Member, FCI*

& Tejal Shah *Lecturer in the Institute of Coding Newcastle University Associate Member, FCI*

Natural Language Processing

Mohammed Al-Agil *Senior Developer Analyst King's College Hospital NHS Foundation Trust, Associate Member, FCI*

Patient Reported Outcome Measures (PROMs)

Anji Kingman *Clinical Outcomes Manager, Northumbria Healthcare NHS Foundation Trust, Associate Member, FCI*

New Zealand Covid-19 Borders

Michael Hosking *Digital Health Consultant New Zealand, Associate Member, FCI*

Panel Questions and Answers

Followed by Comfort Break at 14.55

Part 2

15.10 Introduction

Chair: Dr Anne Marie Cunningham *Associate Medical Director, Primary Care, NHS Wales Informatics Service & Vice Chair, Founding Fellow, FCI*

15.15 OpenSAFELY: how we built a secure analytics platform for 23 million patients' EHR data in 5 weeks during Covid-19

Dr Ben Goldacre

Director, The DataLab,

Fellow, Green Templeton College,

Nuffield Dept of Primary Care Health Sciences

Chris Bates

Data Scientist and Developer,

TPP

15.35 Questions and Answers

15.45 Breakout Groups - all welcome to join any of the Group Sessions

Clinical Safety

Artificial Intelligence

Nursing and Midwifery

Allied Health Professionals

Competency Framework

Healthcare Science

Mobilising Computable Biomedical Knowledge

Primary Health Care

Pharmacy

*Please refer
to Page 4 for full
Breakout Group
details*

16.10 Brief Feedback from Breakout Chairs, Comfort Break at 16.20

FCI Annual Members Conference Programme

Part 3 - Annual General Meeting

16.30 Welcome and Introduction

Chair: Dr John Williams *Chair of Trustee Board, Founding Fellow, FCI*

16.35 Annual General Meeting



FACULTY OF
**CLINICAL
INFORMATICS**

This is the first annual general meeting of the Faculty.

The business to be transacted, comes under the following main headings:

- A. *Proposed amendments to the Faculty Constitution*
- B. *Other AGM business:*
 - a. *Report by the Chair of the Trustee Board*
 - b. *Unaudited accounts to 31 October 2020*

Please note that all members of the Faculty, including associates, are welcome to join the AGM, but only Fellows and Members are entitled to vote.

Part 4

17.30 Introduction

Chair: Professor Jonathan Kay

*Honorary Professor of Clinical Informatics, University College London
Chair of Council FCI, Founding Fellow, FCI*

17.35 Keynote Speaker – The challenges and benefits of data sharing during the pandemic

Dr Chris Bunch

Chair, UK Caldicott Guardian Council & Fellow FCI

18.05 Questions and Answers

18.15 Concluding Remarks

Professor Jonathan Kay

*Honorary Professor of Clinical Informatics, University College London
Chair of Council FCI, Founding Fellow, FCI*

18.30 Close

Breakout Groups at 15.45 - Detailed Information

Clinical Safety

The Faculty established a Clinical Safety SIG to develop a strong network of interested clinical safety individuals within the Faculty, to ensure that clinical safety resources and new safety initiatives are shared to help enhance knowledge, and to ensure that the challenges of new technologies are fully understood and how these new technologies can be assured.

This breakout session will give a recap on the Clinical Safety SIG activities this year, and will then be used to discuss priorities for the group, future content, and forming a leadership/steering group for the SIG.

Facilitator: Dr Sebastian Alexander Strategic Clinical lead for Patient Safety NHS Digital & GP, Cambridge, Founding Fellow, FCI
Clive Tomsett Clinical Safety Officer, Director of Mable & Florence Ltd. Previous Safety Officer roles with Cerner, Accenture, BT, Fujitsu and NPSA, Associate Member FCI

Artificial Intelligence

Much is happening in the world of medical AI, for example the NHSX AI Lab is now active and granting significant sums towards a wide range of external projects. This SIG meeting will review our aims and activities and discuss plans for the next year. All are welcome, whether to listen or contribute. We are particularly interested to hear suggestions for webinar speakers and members willing to lead a specific AI SIG activity.

Facilitator: Professor Jeremy Wyatt FCI Founding Fellow; emeritus professor of Digital Healthcare, University of Southampton; chair of FCI AI Special Interest Group & former chair, European Society for AI in Medicine

Nursing and Midwifery

This session will explore how the Allied Health Professions can form an interest group of the FCI to support wider sharing and learning. It will identify the approach to be taken and invite expressions of interest in contributing to its development and moderation

Facilitator: Jo Dickson CCIO / Clinical Informatics Director, Nuffield Health, Founding Fellow, FCI

Allied Health Professionals

This session will explore how the Allied Health Professions can form an interest group of the FCI to support wider sharing and learning. It will identify the approach to be taken and invite expressions of interest in contributing to its development and moderation

Facilitator: Lesley Holdsworth OBE Clinical Lead for Digital Health & Care Scottish Government, Fellow, FCI

Competency Framework

Update on the FCI's Core Competency Framework (CF) & the CF Working Group. We present a brief overview of the project, we it's relevant to our membership and next steps through the work of the CFWG

Facilitator: Dr Alan Hassey Project Director Core Competencies Project, Founding Fellow, FCI

Healthcare Science

This session will explore establishing a Healthcare Scientist special interest group of the FCI as a community of interest and to share wider learning. Discussions will focus on the opportunities and format for the special interest group and how participants could contribute to establishing and developing it.

Facilitator: Robert Simpson Biomedical Scientist, FCI fellow, and member of the FCI Finance Audit and Risk committee

Mobilising Computable Biomedical Knowledge

Computable knowledge is the enemy of disease: how will next generation clinical decision-support work?

Description: To accelerate the implementation of our rapidly advancing clinical and biomedical knowledge, we need a global library of validated algorithms in standardised format for use by apps and clinical decision support systems. Currently, knowledge is transcribed from human-readable sources like NICE guidelines into algorithms within each app, decision support system or device. This risks errors and inconsistent implementation and retards clinical implementation. The Mobilising Computable Biomedical Knowledge (MCBK) movement is a collaboration of academics, industry, guideline developers and clinicians who want to make the global library concept a reality. This session is hosted by the UK MCBK group, a joint initiative of FCI and BCS.

Facilitator: Philip Scott Reader in Health Informatics at the University of Portsmouth, Chair of BCS Health & Care, non-executive Board member of the Professional Record Standards Body and past chair of HL7 UK, Associate Member, FCI

Primary Health Care

Founded in 1980, the Primary Health Care Specialist Group is one of the oldest informatics groups. The group is unique in bringing together all disciplines involved in primary care informatics, both clinical and non-clinical and we believe this is of vital importance. It provides a two-way link between cutting-edge development and grass-roots practice. Our main focus is the development and dissemination of best practice in primary care informatics, and we seek to influence policy makers to ensure the effective application of informatics for the benefit of patients.

Facilitator: Dr John Robinson Chair of the Primary Health Care Specialist Group, Founding Fellow, FCI

Pharmacy

This breakout session will explore the possibility of a special interest group in pharmacy. As a profession, pharmacy is pivotal in the impact clinical informatics has on the healthcare system. This will be an interactive session to explore your views on what you would like from such a group.

Facilitator: Amita Aggarwal Chief Pharmaceutical Officer's Clinical Fellow, Member FCI

Speaker Biographies

Anita Aggarwal

I am currently one of the Chief Pharmaceutical Officer's Clinical Fellows at HEE. I have had the opportunity to work with senior leaders and develop skills including leadership, management, strategy and project management. I am leading a project on pharmacy careers and am part of a team looking at the digital readiness of the pharmacy workforce.

Prior to this I was a projects pharmacist at King's College Hospital where I led and supported various projects including the installation of a new dispensing robot. I interacted with external stakeholders and companies to optimise operational flow and co-ordinated this with the department. This ultimately ensured medications reached patients safely in a timely and cost-effective way.

I have also been an EPMA (Electronic Prescribing and Medicines Administration) Pharmacist where I helped to co-ordinate the roll out of the system across a new hospital site. I was involved in the training of different professional groups as well as adapting the system to ensure medicines were prescribed in the most timely, safe and effective manner.



Mohammed Al-Agil

Growing up with a passion for computers and the sciences, I completed a Bachelors in Medicine and Surgery in Bahrain and worked in the Middle East for 3 years. Despite fulfilling my life-long dream to treat people and alleviate their pain, I felt that my efforts were contained to my role alone, and that I could not help others that I did not see in the clinical setting. I yearned to have a birds' eye view on healthcare so I could help my colleagues by using big data analytics to generate insights and eventually, create predictions. To this end, I decided to enhance my IT knowledge by doing a Masters in Health Informatics, with my thesis focusing on NLP and automated text summarization and pursued a career in health data analytics at King's College Hospital. Currently, I am a Senior Developer Analyst working on the Cogstack textual analytics platform and using it to extract, prepare and utilise clinical data for audit, patient safety, service evaluation or research purposes. LinkedIn profile url: <https://www.linkedin.com/in/m-alagil/>



Sebastian Alexander

Dr Sebastian Alexander is currently working as Strategic Clinical lead for Patient Safety for NHS Digital. He also works as a General Practitioner in Cambridge.

He was one of the first National Clinical Leads for the Choose and Book Program in 2002, now called the Electronic Referral Service and he later led on the Clinical Safety Work of this program.

In 2008 he was appointed as one of the First National Clinical Safety officers for National Programme for IT. He was interim Director for Patient Safety for NHS Digital from 2013 to 2016 before taking on his current role.

He was involved in the writing and reviewing of the Health Care IT Safety Standards (DCB 0129 and DCB 0160) and has been involved in setting up an on line NHS Digital Clinical Safety training course and delivery of a face to face Clinical Safety training program for the NHS and suppliers to promote these two Health IT Safety Standards and more recently involved in setting up an on line NHS Digital training course

He also is involved with many of the new projects in NHS Digital including the NHS App, other health care apps applying to be part of the NHS Health Apps Library. He is involved in National Clinical Safety Incident management process and works with all the major suppliers of health IT software (in primary and secondary care) in the UK and internationally. He chairs the Clinical Safety Group which authorises release of integrated health IT software into the NHS. He is one of the Founding Fellows of the Faculty of Clinical Informatics and elected as a Fellow of the Royal College of General Practitioners in 2019.



Chris Bates

Dr Chris Bates is a data scientist and developer at TPP. He leads TPP's work in the use of electronic health record (EHR) data to support analytics and research. He has previously been recognised by the Health Service Journal (HSJ) as one of the top 50 innovators in UK healthcare. Chris is involved in a number of national research programmes, including in cancer survivorship and antimicrobial resistance. He has recent publications in high-impact journals, including Nature, Science, and the Lancet. Along with OpenSAFELY, he is actively involved with TPP's support of other important Covid-19 initiatives including drug trials, cohort studies, vaccinations, and clinical trials.



Speaker Biographies

Chris Bunch

Chris Bunch will replace Dame Fiona Caldicott who is sadly unable to join us at short notice



Chris is a consultant physician at the Oxford University Hospitals NHS Foundation Trust and has been Caldicott Guardian there since 1998. He has particular interests in information protection and cyber security, and is a Fellow of the Faculty of Clinical Informatics. He has previously been medical director of the Trust and a non-executive member of the Nene Clinical Commissioning Group. He joined the Council in 2015 and was appointed Chairman in 2017

Anne Marie Cunningham

Currently Associate Medical Director for Primary Care, NHS Wales Informatics Service, Dr Cunningham is also a practicing GP in the South Wales Valleys. She is a strong advocate of social media and networks to promote healthcare, particularly in learning and development. She believes that multidisciplinary teams, and patients and carers, must be active in healthcare informatics, and that events such as hackathons can be a way to facilitate this participation.



Jo Dickson

Jo works at Nuffield Health, a not-for-profit healthcare organisation which provides a wide range of clinical services (in hospitals, health clinics, fitness and wellbeing gyms and diagnostic units) to deliver a connected and complete health and wellbeing service. Jo's role is to provide clinical leadership across Informatics programmes. The organisation is currently amid significant technology enabled change and is in the process of implementing Intersystems Trakcare (in 31 hospitals) as an Electronic Health Record (EHR). Immediately prior to her role at Nuffield Health, Jo was CNIO at Leeds Teaching Hospitals NHS Trust. She is the current Chair of the Digital Health CNIO network.



Ben Goldacre

Ben Goldacre is a doctor, researcher and author. He runs the DataLab at the University of Oxford, building tools and services from large health datasets, and advises government on better uses of data and technology. He leads various technology projects including OpenSAFELY.org, a new model of secure analytics platform that runs across unprecedented volumes of linked primary and secondary care electronic health record data; OpenPrescribing.net, an open data explorer for NHS primary care prescribing with over 130,000 users a year; and TrialsTracker.net, an open tool that monitors clinical trial reporting performance. His books including "Bad Science" have sold over 700,000 copies in more than 30 countries; his online lectures have over 5 million views.



Alan Hassey

Dr Alan Hassey MSc MB BS FRCGP FFCI was a GP in Skipton, North Yorkshire for 31 years. He is a Founding Fellow of the UK Faculty of Clinical Informatics and is serving his second term as a member of the FCI's Council, where he chairs the Education & Standards Standing Committee and is the project director for the FCI's Core Competencies Project. He is a member of the RCGP Health Informatics Group (HIG) and past chair of HIG and the Joint GP IT Committee of the BMA & RCGP. Alan worked in NHS Digital for 10 years, where he was the IG Clinical Lead & Deputy Caldicott Guardian until 2017. Alan was a member of Dame Fiona Caldicott's National Data Guardian Panel from 2013 until August 2020 when he retired. In 2012 Alan was awarded the RCGP President's Medal for his contributions to GP computing.



Lesley Holdsworth OBE

Lesley Holdsworth OBE PhD FCSP FWCT FFCI is Clinical Lead for Digital Health & Care at the Scottish Government. She works with all professions but has a specific responsibility for nursing, midwifery and the Allied Health professions. Lesley has had a long standing interest in information and its use in shaping and improving services and care and has held national positions for the last twenty years, all of which have had a key focus on data. She co-founded the well established nursing, midwifery and allied health digital network in Scotland in 2013 which now has over 750 members and sponsors an m level digital leadership programme which has been completed by 255 NMAHPs. Lesley is involved in a number of UK and international informatics initiatives



Michael Hosking

Michael Hosking is currently working as a Digital Health Consultant in New Zealand. Starting his career as a healthcare professional in Australia, he now specialises in digital health. His specialty areas include data and interoperability standards, product design and user experience, strategy, policy, research, and workforce development. Most recently advising on the digital and data component of the National NZ Health System Review, he is currently supporting the development of the national digital solution supporting the NZ border and Managed Isolation Facilities.



Jonathan Kay

Jonathan Kay is Chair of the Council of the Faculty of Clinical Informatics. He spent most of his career as a chemical pathologist in Oxford and has also been Clinical Informatics Director at NHS England and Professor of Health Informatics at City University London and at University College London. His research interests include knowledge management, informatics for investigations, and everyday technology at the point of care.



Tashfeen Kholasi

Tashfeen is a practicing dentist with experience in primary, secondary, urgent care and referral services. She is currently CCIO of a group of dental practices leading on their digital transformation to connect dentistry to the wider healthcare system. In addition to being a clinical safety officer for a referral and automation software supplier focusing on AI. Her previous roles include Clinical Lead for Digital Dentistry at NHSE/NHSX where she delivered the first interoperability proof of concept from NHS111 and a dental software supplier as well as leading on pilots for access to SCR for primary and secondary care dentistry. Tashfeen is a fellow of the Faculty of Clinical Informatics, member of the NHS Digital Academy, board member of the Faculty of General Dental Practitioners and completing her Masters in Healthcare Commissioning and Leadership. Prior to dentistry she worked for local government on digital integration projects.



Anji Kingman

Anji has worked in healthcare for over 30 years and for Northumbria Healthcare NHS Foundation Trust for 16 years. With a combination of clinical and administrative experience she has been developing and running the trust's elective orthopaedic PROMs programme for over 5 years. Anji is passionate about PROMs and using the resulting data to improve patient care and inform clinical practice. Additionally, she is the project co-ordinator for the development of openOutcomes, an open standards, open source platform for the collection, recording and reporting of PROMs. Anji is the PROMs and administrative lead for the UK Bone and Joint Infection Registry, and she is one of three co-ordinators for the National PROMs Network.



Prof Sultan Mahmud

Sultan joined RWT's Board of Directors in 2014 to support the Royal Wolverhampton Trust in its horizontal integration programme with Cannock Chase Hospital. He secured much needed elective capacity to ensure waiting lists in Wolverhampton, South Staffordshire and surrounding areas were better managed.

In his role as Director of Integration, Innovation and Research at The Royal Wolverhampton NHS Trust (RWT), Sultan has worked with GPs, hospital clinicians and IT colleagues to develop systems that enable collaboration in a mutually supportive and cohesive unit. This has led to the creation of the population health intelligence unit in Wolverhampton and the advent of Structured Clinical Data Units (SCDU) which lays the ground for one to many care. He is a keen advocate of technology and digital innovation in healthcare to improve clinical processes, and produce efficiency and is the Board executive lead in this rapidly growing area.

Sultan is passionate about primary, hospital and community services working more collaboratively to manage patient care as a system. He has delivered this using analytics and providing clinicians/carers with real-time information that can support rapidly changing healthcare needs. As a result over the last two years RWT's Vertical Integration model which has increased positive patient satisfaction, increased access to primary care, reduced demand in hospital care and has gathered national attention as an innovative way forward to support general practice and promote integrated care. It was found Vertical integration was associated with a reduction in the rate of unplanned hospital admissions and readmissions in a peer reviewed journal <https://bjgp.org/content/70/699/e705> the only "new care model" to hold this distinction.

In addition to his work at Wolverhampton, he supports Hospitals and Primary Care Physicians across England to collaborate authentically. In 2018 he was chosen as one of the 100 vibrant faces of the UK economy by Grant Thornton and in 2019 Sultan joined the Advisory Board of the Centre for Health and Social Care Leadership at the HSMC, University of Birmingham. He is also holds a guest lecturer at the University of Wolverhampton and is a visiting Professor at Birmingham City University.



Speaker Biographies

John Robinson

John Robinson FRCGP FFCI FBCS was a GP Partner in Wantage, Oxfordshire for more than 30 years. He developed an interest in GP computing in the late eighties. He was a medical consultant for the Meditel (then Torex) GP clinical system. He joined PRIMIS at University of Nottingham in 2000 and continues as a Clinical Adviser. He is the co-author of the CHART software still used by PRIMIS. He is a Senior Clinical Adviser to NHS Digital and works as an SME and Clinical Safety officer for PRSB. He has been Chair of the Primary Health Care Specialist Group of the BCS for the last 5 years. He claims to be semi-retired.



Philip Scott

Dr Philip Scott is Reader in Health Informatics at the University of Portsmouth, Chair of BCS Health & Care, non-executive Board member of the Professional Record Standards Body and past chair of HL7 UK. Philip worked in the NHS in various IT development and management roles for fourteen years before joining the university in 2009. He is a Fellow of the British Computer Society (BCS), Chartered IT Professional, Fellow of the Higher Education Academy, Certified Health Chief Information Officer and an Associate of the Faculty of Clinical Informatics (FCI).



Tejal Shah

Tejal is a Lecturer in the Institute of Coding at Newcastle University where her responsibilities include designing computing courses for those from non-computing backgrounds. She is also responsible for the development of the Health Informatics CPD programme at the University. Previously, she was a Research Associate in the Institute of Health and Society at Newcastle University working on the Connected Health Cities (CHC) Programme. Prior to joining Newcastle University, she worked as a Research Assistant in the School of Information Technologies at the University of Sydney where she was responsible for implementing SNOMED CT in the in-house health information system that was developed as part of a research project. Tejal received her PhD in Computer Science from the University of New South Wales, Sydney, Australia. She holds a Master of Health Informatics degree from The University of Sydney, Australia and Bachelor of Dental Surgery (BDS) from Government Dental College, Mumbai, India.



Robert Simpson

Robert remembers the first NHS installations of Ferranti LIMS in the early 1980's. He's a member of NHS Digital's Pathology Standards Governance Board and the Professional Records Standards Body advisory board



Clive Tomsett

Clive is presently a Director of Mable & Florence Ltd, presently contracting Clinical Risk Management services to both Health IT Vendors and Health Care Organisations, having retired in 2019 and becoming board very soon after.

Prior to this, Clive was Head of Clinical Risk Management at Cerner for 6-years, providing clinical safety assurance for Cerner Solutions both in the UK and Europe.

Before joining Cerner, Clive worked within BT Global Health, as Head of Clinical Risk Management and latterly Clinical Director. Prior to this Clive has worked for both Accenture and Fujitsu in various clinical roles concerned with patient safety and clinical risk management.



John Williams

A GP retired after 30 years, currently working as Senior Clinical Research Fellow in Faculty of Health and Medical Sciences, University of Surrey; providing advice and teaching around clinical informatics and research using GP data. Dr Williams is a past chair of the Joint GP IT Committee and was previously clinical adviser to PRIMIS+ and more recently national clinical safety lead to the GP2GP record transfer project which has led to the safe transfer of the full electronic patient record now being the norm in England when patients change practices.



Speaker Biographies

Louise Wilson

Louise Wilson is a clinical networks delivery lead, PhD student and honorary researcher Newcastle University. Louise's specific interests include organisational learning, communities of practice and the development of peer networks.



She has twenty-eight years informatics experience including leadership of national training and education programmes for the Department of Health and the influential training DVD 'Computers in the Consulting Room'. She has also produced three books including as a co-author of eCommunication Skills: a guide for primary care (Simpson and Robinson, 2005). In 2012, with an NHS colleague from Bristol, Louise produced an award winning health app for people managing the symptoms of fatigue and co-founded the UK Health App Network for Developers and Innovation (HANDI). Louise and Dr Toby Lowe were recipients of two ESRC impact acceleration award funds (2016-18) for a project creating a development programme for Learning Community Facilitators. See <https://www.humanlearning.systems/>

More recently, Louise led the professional engagement programme for the Great North Care Record, a shared care record programme in the north of England, part of the Connected Health Cities initiative supporting the development of a Learning Health System.

Jeremy Wyatt

Jeremy is Emeritus Professor of Digital Healthcare and former Director of Wessex Institute and Clinical Adviser on New Technologies to Royal College of Physicians. He currently leads the FCI's Special Interest Group on AI, convenes UK activity on Mobilising Computable Biomedical Knowledge (MCBK) and is a member of Medicines & Healthcare Regulatory Authority's Devices Expert Advisory Committee. He was previously Leadership Chair in eHealth Research in Leeds, setting up the £7M MRC Biomedical Informatics Centre in Leeds Institute of Data Analytics. His research uses empirical methods to uncover scientific principles guiding the design of clinical information and eHealth systems, studying interactive tools to change the behaviour of clinicians (eg. decision support), patients (eg. apps, telehealth) and the public (eg. SMS msgs to promote healthy lifestyle), and of digital tools to support health research.



Jeremy trained in medicine in Oxford and London and as a hospital physician there & Glasgow (MRCP 1983). He then discovered medical informatics and health technology assessment with doctoral training at the National Heart & Lung Institute and an MRC-funded postdoc at Stanford. He was the UK's first elected Fellow of the American College of Medical Informatics in 1997, was ranked third in his discipline worldwide in 2009 and has given 40 invited overseas talks in the last decade, including the Amsterdam Spinoza lecture series.

*In his spare time he makes jewellery and commemorative objects in titanium:
<https://www.marlboroughopenstudios.co.uk/exhibiting-artists/jeremy-wyatt>*

Main achievements

Jeremy set up NICE's R&D programme 2003-5, the Dundee Health Informatics & eHealth Centre 2005-10 (precursor to Scotland's Farr node) and the Warwick Institute for Digital Healthcare in 2010. He was member of WHO's mHealth Technical Advisory Group 2010-12 and developed and taught a WHO course in Tehran. He is visiting professor in Oxford, Amsterdam and Oporto universities and wrote the agenda for and minuted the June 1992 McMaster meeting which, with Brian Haynes & Iain Chalmers, established the Cochrane Collaboration. He also set up Cochrane's Effective Practice & Organisation of Care review group in 1994. He has written three textbooks on evaluation methods and digital / eHealth, five series of tutorial articles for medical journals and over 200 articles with an H index of 56. He is a Founding Fellow of the Faculty of Clinical Informatics and the International Academy of Health Sciences Informatics.