



## GASOC Global MedTech Conference



Feedback - September 2019

## GASOC Global MedTech Conference

The GASOC Global MedTech Conference was a one-day conference consisting of didactic sessions, a panel discussion and a hackathon. The hackathon posed a global surgery problem, where delegates worked in groups to come up with potential technological solutions. GASOC hoped to support the most promising of these delegates with further development after the conference. There was also a panel discussion on the involvement of trainees in global surgical technology.

### Course Information

<b>Course Date:</b>	<b>14<sup>th</sup> September 2019</b>
<b>Venue:</b>	<b>The Carriageworks Theatre, The Electric Press, 3 Millennium Square, Leeds</b>
<b>Attendance:</b>	<b>117 Delegates</b>
<b>Aimed at:</b>	<b>Medical Students</b>
<b>Conference Fee:</b>	<b>£60.00</b>



## Programme

0930 – 1000	<b>Registration</b>
1000 – 1010	<b>Introduction</b> Dr Sarah Davidson – GASOC President, The GASOC Committee Mr Noel Aruparayil – Lead Conference Organiser and Surgical Representative, The GASOC Committee
1010 – 1035	<b>Research in Global Health Technology</b> Professor David Jayne – Clinical Director, Global Health Research Group and Surgical MedTech Co-Operative
1035 – 1100	<b>Worldwide Access to Quality Surgical Services Using Low-Cost Technology</b> Professor Jenny Dankelman – Professor in Biomechanical Engineering, TU Delft
1100 – 1125	<b>Barriers to Technology in Global Surgery - The Importance of Frugal Innovation</b> Dr Jesudian Gnanaraj – G4 Alliance Board of Directors and Director of Medical Services, SEESHA
1125 – 1140	<b>Lightning Presentations</b>
1140 – 1200	<b>Health Intervention and Technology Assessment – UHC (Teleconference)</b> Dr Adriana Velazquez Berumen – Medical Devices Policy Lead, WHO
<b>1200 – 1300</b>	<b>Lunch, Poster Prizes and Oral Presentations</b>
1300 – 1325	<b>mHealth and Obstetric Health</b> Dr Shobi Nagaraj – MRC Clinical Research Fellow in Maternity and Child Health, University of Oxford
1325 – 1350	<b>Anaesthetic and Surgical MedTech Solutions in LMICs</b> Mr Tim Beacon – Managing Director, Medical Aid International
1350 – 1410	<b>Importance of Trainee Engagement in Global Surgery</b> Panel: Q&A
1410 – 1600	<b>Hackathon: Sepsis in LMICs</b> Lifebox Dr Will Bolton – Director, MedTech Foundation
1600 – 1630	<b>Hackathon Debrief and Assimilation of Ideas</b> GASOC and MedTech Foundation
1630 – 1700	<b>Prize Distribution and Close</b> Dr Sarah Davidson – GASOC President, The GASOC Committee Mr Noel Aruparayil – Lead Conference Organiser and Surgical Representative, The GASOC Committee
1700 – 1730	<b>Post-Conference Drinks and Networking</b>



## ORGANISING COMMITTEE

### **Mr Noel Aruparayil, MD (Hons), MRCS Ed, PGCert in Health Research**

Conference Organiser

GASOC Surgical Representative

The GASOC Committee

### **Dr Sarah Davidson, BSc, MBBS**

GASOC President

The GASOC Committee

## SPEAKERS

### **Professor David Jayne, BSc Anatomy, MBBCh, FRCS Part III, MD with Distinction**

Clinical Director for NIHR Global Health Research Group and NIHR Surgical MedTech Co-Operative

Professor of Surgery at University of Leeds, Leeds, United Kingdom

### **Professor Jenny Dankelman, MSc, PhD**

Professor in Biomechanical Engineering

Delft University of Technology, Delft, Netherlands

### **Dr Adriana Velazquez Berumen, MSc**

Medical Devices Policy Lead

World Health Organisation, Geneva, Switzerland

### **Dr William Bolton, MBChB, BSc Clinical Sciences Medical Imaging (Hons)**

Director for MedTech Foundation, NIHR Surgical MedTech Co-Operative

Academic Foundation Doctor at University of Leeds, Leeds, United Kingdom

### **Dr Jesudian Gnanaraj, MS, MCh, FICS, FIAGES, FARSI**

G4 Alliance Board of Directors

Professor in the Electronics and Instrumentation Engineering Department, Karunya University, Coimbatore, India

Director of Medical Services, SEESHA

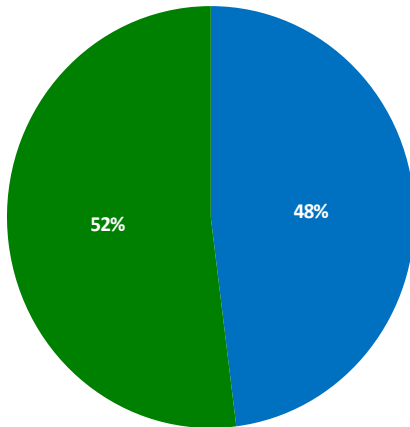
### **Dr Shobi Nagaraj, BSc, MBBS, MRCS, MRCGP, MPhil, SFHEA**

MRC Clinical Research Fellow in Maternity and Child Health

University of Oxford, Oxford, United Kingdom

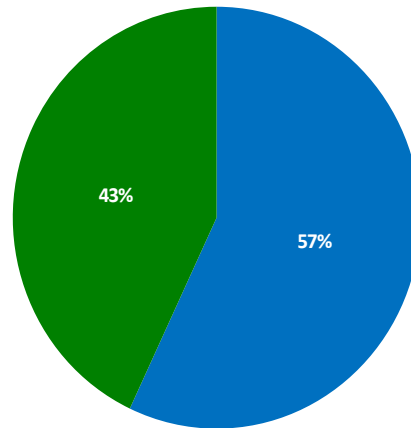
# Overall Feedback

Research in Global Health Technology -  
Professor David Jayne



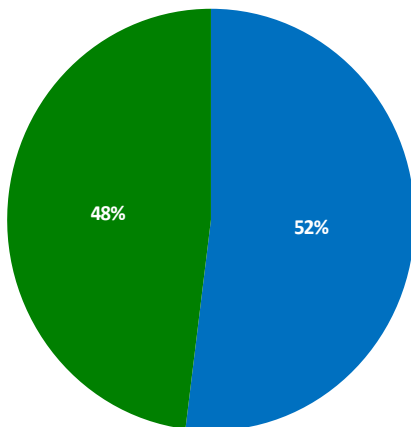
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Worldwide Access to Quality Surgical  
Services Using Low-Cost Technology -  
Professor Jenny Dankelman



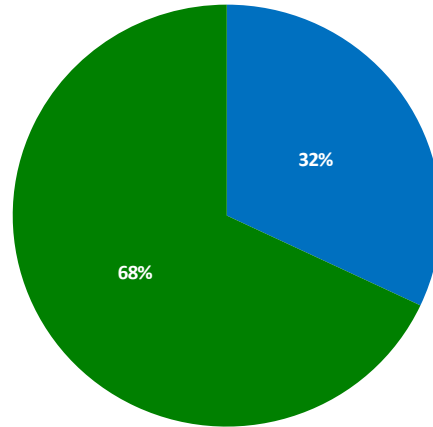
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Barriers to Technology in Global Surgery –  
The Importance of Frugal Innovation -  
Dr Jesudian Gnanaraj



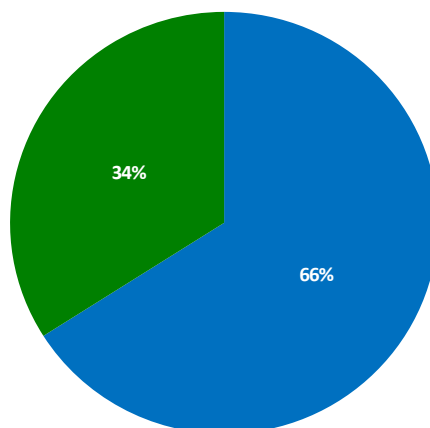
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The Importance of Technology in Global  
Surgery – A Response by the WHO -  
Ms Adriana Velazquez Berumen



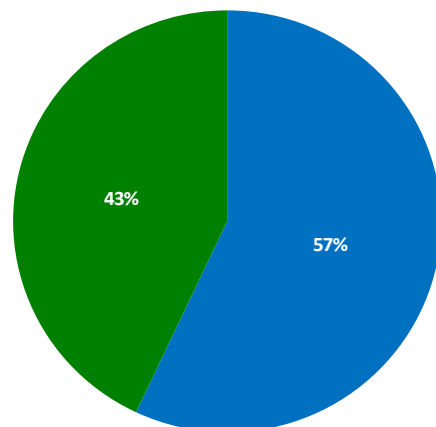
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mHealth Technology and Maternal Health -  
Dr Shobhana Nagaraj



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

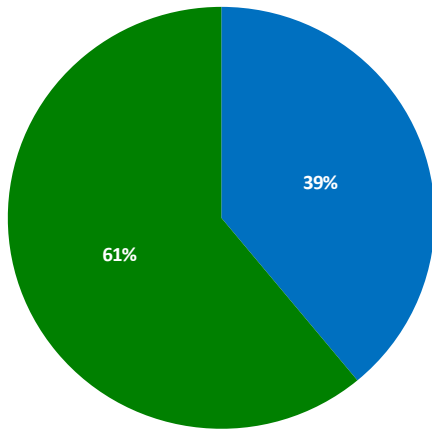
Biomedical Engineering for Anaesthesia and  
Surgery in LMICs - Mr Tim Beacon



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

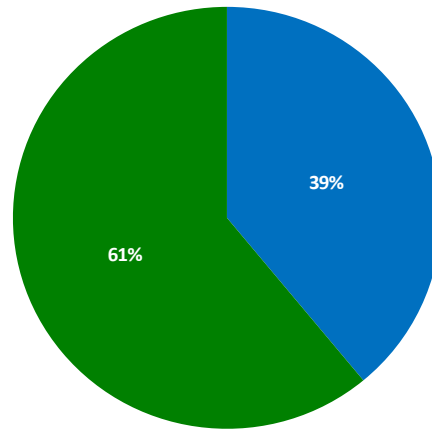
# Overall Feedback

LifeBox: 'Clean-Cut' and Surgical Site Infections (Teleconference) - Professor Tom Weiser



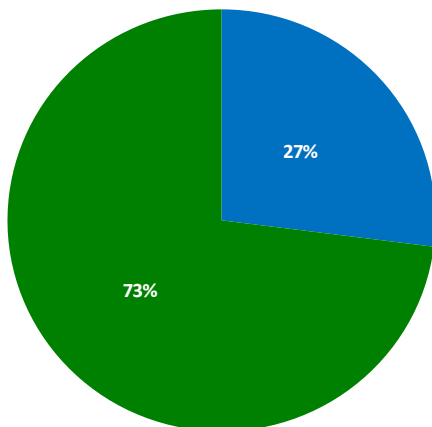
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Hackathon - Sepsis in LMICs - Dr Will Bolton (MedTech Foundation)



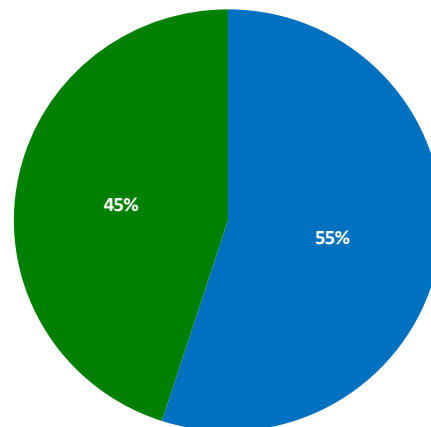
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Food and Refreshments



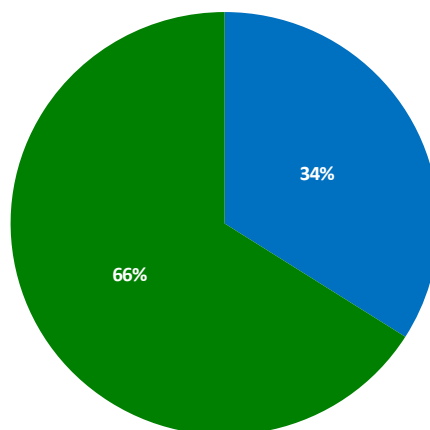
■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Venue



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

Format and Timings



■ Excellent ■ Good ■ Neutral ■ Fair ■ Poor

## Individual Comments

This was a great conference.

CF

*University of Leeds School of Medicine, Leeds, United Kingdom*

It was very good.

JM

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

This was an excellent event.

AK

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

This was an excellent conference; it was better than BioMedEng.

EK

*University of Leeds School of Medicine, Leeds, United Kingdom*

Good.

HF

*University of Aberdeen School of Medicine and Dentistry, Aberdeen, United Kingdom*

I really enjoyed the day.

DB

*University of Leeds School of Medicine, Leeds, United Kingdom*

Great.

YZ

*University of Leeds School of Medicine, Leeds, United Kingdom*

This was a fantastic conference with many diverse speakers.

SP

*County Durham and Darlington NHS Foundation Trust, United Kingdom*

Excellent.

AT

*Addis Ababa University, College of Health Sciences, School of Medicine, Addis Ababa, Ethiopia*

Good.

EP

*Wythenshawe Hospital, Manchester, United Kingdom*

## Individual Comments

This was a well organised conference.

**LB**

*University of Leeds, Leeds, United Kingdom*

This was a very good conference.

**FS**

*Huddersfield Royal Infirmary, Huddersfield, United Kingdom*

I had a good day.

**LS**

*University of Leeds School of Medicine, Leeds, United Kingdom*

This was a fantastic and well organised event, concisely covering many relevant topics. Great work by the organisational team!

**JC**

*St James's University Hospital, Leeds, United Kingdom*

I really enjoyed it.

**AC**

*Calderdale and Huddersfield NHS Foundation Trust, United Kingdom*

I was impressed with the organisation and good time management.

**MA**

*Hull York Medical School, Hull, United Kingdom*

Excellent.

**AL**

*St James's University Hospital, Leeds, United Kingdom*

It was a good conference. This being the first ever one, I would say that it was successful.

**YM**

*Hull York Medical School, Hull, United Kingdom*

This was a very good conference, with excellent technical management on computers/communication platforms. There was a good variety of talks and research presented. Well done!

**UA**

*University of Leeds School of Medicine, Leeds, United Kingdom*



## Individual Comments

This was a very good conference covering global issues given by a diverse group of speakers.

**SP**

*County Durham and Darlington NHS Foundation Trust, United Kingdom*

I really enjoyed it.

**LP**

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

I enjoyed the day very much.

**PW**

*University of Leeds School of Medicine, Leeds, United Kingdom*

I was very satisfied.

**ZL**

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

Excellent.

**OO**

*James Cook University Hospital, Middlesbrough, United Kingdom*

I had a great day.

**GC**

*Leeds Teaching Hospitals NHS Trust, United Kingdom*

I was very pleased with the day. The talks were very interesting and inspiring, and I enjoyed reading the posters.

**EM**

*University of Leeds School of Medicine, Leeds, United Kingdom*

I really enjoyed the day!

**RA**

*University of Leeds School of Medicine, Leeds, United Kingdom*

It was really well put together, thank you very much!

**OT**

*Leeds Partnerships NHS Foundation Trust, United Kingdom*

This was a brilliant conference!

**KS**

*University of Leeds School of Medicine, Leeds, United Kingdom*

## Individual Comments

Good.

SC

*Southampton General Hospital, Southampton, United Kingdom*

Excellent.

ZK

*King's College School of Medicine, London, United Kingdom*

This was a really enjoyable day; it was both interactive and engaging.

KH

*University of Leeds School of Medicine, Leeds, United Kingdom*

This was a great conference, thanks!

JS

*University of Münster, Münster, Germany*

Good.

KP

*Bradford Teaching Hospitals NHS Foundation Trust, United Kingdom*

I was very satisfied.

AN

*Oxford Medical College, Hospital and Research Centre, Bangalore, India*

This was a good conference.

GJ

*Royal Shrewsbury Hospital, Shrewsbury, United Kingdom*

This was an insightful conference that was engaging for all attendees.

VA

*University of Leeds School of Medicine, Leeds, United Kingdom*

I was very satisfied.

BA

*Hull York Medical School, Hull, United Kingdom*

It was very good.

LB

*University of Aberdeen School of Medicine and Dentistry, Aberdeen, United Kingdom*

## Individual Comments

This was a very good conference.

**HB**

*University of Leeds School of Medicine, Leeds, United Kingdom*

It was a very informative day that I thoroughly enjoyed.

**CE**

*University of Leeds School of Medicine, Leeds, United Kingdom*

I was very satisfied.

**ZM**

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

This was a really excellent day with very interesting and inspiring speakers.

**CH**

*Bradford Teaching Hospitals NHS Foundation Trust, United Kingdom*

It was very good.

**EW**

*Sheffield University School of Medicine and Biomedical Sciences, Sheffield, United Kingdom*

It was excellent, many thanks.

**ME**

*Royal London Hospital, London, United Kingdom*

This was a great conference; I really enjoyed it.

**PI**

*King's College London GKT School of Medicine, London, United Kingdom*

This was a fantastic event; it was very well organised.

**SA**

*University of Aberdeen School of Medicine and Dentistry, Aberdeen, United Kingdom*

It was a brilliant conference with a well organised timetable and brilliant speakers.

**SN**

*University of Leeds School of Medicine, Leeds, United Kingdom*

It was very good.

**AC**

*Calderdale and Huddersfield NHS Foundation Trust, United Kingdom*

## Individual Comments

I would rate this very highly.

**RS**

*University of Leeds School of Medicine, Leeds, United Kingdom*

This was a great conference. I would definitely like to get involved with more GASOC events.

**MD**

*Scunthorpe General Hospital, Scunthorpe, United Kingdom*

I enjoyed the conference.

**FD**

*Sheffield University School of Medicine and Biomedical Sciences, Sheffield, United Kingdom*

It was well organised.

**TW**

*National Yang-Ming University School of Medicine, Taipei, Taiwan*

This was a good conference with good food.

**GE**

*University of Leeds School of Medicine, Leeds, United Kingdom*

It was really good!

**SW**

*Bradford Teaching Hospitals NHS Foundation Trust, United Kingdom*

Good.

**SK**

*Khesar Gyalpo University of Medical Sciences of Bhutan, Thimphu, Bhutan*

Good.

**GW**

*University of Leeds School of Medicine, Leeds, United Kingdom*

This was a very well organised day.

**ND**

*Queen's University Belfast School of Medicine, Belfast, United Kingdom*

I had a fantastic time!

**SP**

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

## Individual Comments

This was an excellent conference.

**JG**

*Calderdale and Huddersfield NHS Foundation Trust, United Kingdom*

It was great.

**SK**

*University of Leeds School of Medicine, Leeds, United Kingdom*

It was pretty good.

**SS**

*University of Oxford Medical Sciences Division, Oxford, United Kingdom*

10/10. This was the biggest conference I have attended, and I thought that it was very professional. The live streaming was great, and the general atmosphere was super!

**HR**

*University of Leeds School of Medicine, Leeds, United Kingdom*



# DOCTORS ACADEMY

BETTER EDUCATION. BETTER HEALTH.

Doctors Academy is a UK-based International Non-Profit Organisation comprising of doctors, dentists and scientists that undertakes a diverse range of educational activities globally. The aim of the Academy is to disseminate information and exchange medical knowledge between professionals from diverse backgrounds working in a variety of healthcare settings. This is achieved by the provision of a number of attendance courses, publishing house, online resources and international events / competitions.

## Courses (a selection):

### Undergraduate:

- Final Year Medicine and Surgical Revision Courses
- Training the Clinical Anatomy Trainer
- Clinical Anatomy as Applied to Trauma and Emergency Medicine
- Surgical Anatomy of Important Operative Procedures
- Future Surgeons: Key Skills (RCSEd delivered)
- Structured Introduction to Surgical Skills

### Postgraduate:

- MRCS Part A
- MRCEM Part A
- MRCS Part B OSCE
- DOHNS: Intensive Revision & OSCE
- Intercollegiate Basic Surgical Skills (RCSEd delivered)
- MRCP PACES Part 2
- FRCS (General Surgery) Exit Exam
- Cadaveric Ultrasound-Guided Musculoskeletal Intervention Course
- Ultrasound-Assisted Botulinum Toxin Injection for Neuromuscular Disorders
- Live Advanced Laparoscopic Colorectal Course



## Forthcoming key events:

- International Medical Summer School
- International Academic and Research Conference
- World University Anatomy Challenge

## Publications



[publications.doctorsacademy.org](http://publications.doctorsacademy.org)

## World Journal of Medical Education & Research



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## Online Revision Resources

DoctorExams consists of 1000s of questions with detailed explanations in MCQ, EMQ, SBA and SAQ formats. Questions are written by the Doctors Academy group of experienced clinicians and clinical academics, with mock exams and feedback on performance included to aid a candidate's focused revision of topics. Based on past exams, these questions are carefully crafted to suit the requirements of undergraduate students & postgraduate trainees undertaking relevant speciality exams.

### Resources for:

- Medical Students
- Dental Students
- International Entrance Exams
- MRCS Exams
- General Surgery Exams
- Plastic Surgery Exams
- DOHNS Exams

[www.doctorexams.co.uk](http://www.doctorexams.co.uk)

# [www.doctorsacademy.org](http://www.doctorsacademy.org)