

Clinical Surgery

Issue VII: December 2016

Annual Research Report 2016

Professor Stephen Wigmore



Last year marked the launch of the first report of research activity as an annual report for some time. It was an amazing year with notable

successes in terms of both number and quality of publications and grants. There was a fear that the only way to follow this would be to go downwards. In the event 2016 has been a very strong year in terms of quality. The tragic loss of

in *Lancet Oncology* and a key note review in *Seminars in Cell and Developmental Biology*, was an inestimable set back for the department. Resilience has shone through however and **Hugh Paterson** and **Richard Skipworth** have stepped up to continue several of Ken's work themes.

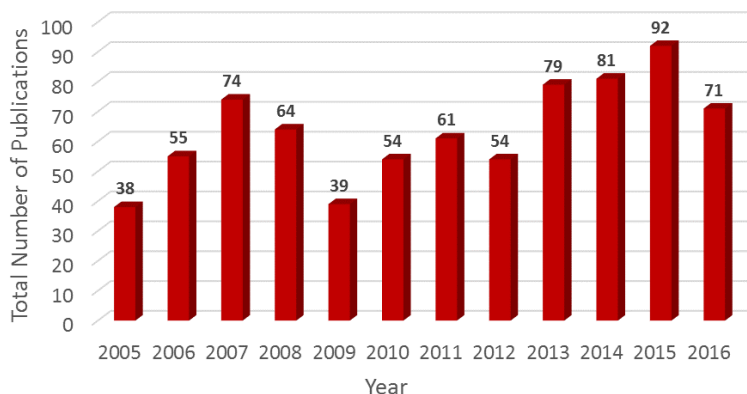
In terms of Chinese nomenclature this past year could be said to be the 'Year of the Mole', with **Damian Mole** securing a *Nature Medicine* paper followed by a highly prestigious MRC Senior Fellowship.

Damian also contributed to other papers in *Science* and *Science Translational Medicine*.

Richard Skipworth contributed to articles in *Nature Genetics* and *Science Reports* and **Rachel Guest** published her PhD research in *PNAS* and contributed to a paper in *Gut* and **Nick Ventham's** thesis work was published in *Nature*

Communications along with other contributions to work in *Gut* and *American Journal of gastroenterology*.

Total Publications by Year



Professor Ken Fearon fell only a few months after he had published a letter in *Nature*, two randomized controlled trials

Welcome to the December 2016 edition of the Department of Clinical Surgery eBulletin

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Annual Research Report 2016

Lorna Marson published two papers in *Transplantation* including the HOT trial.

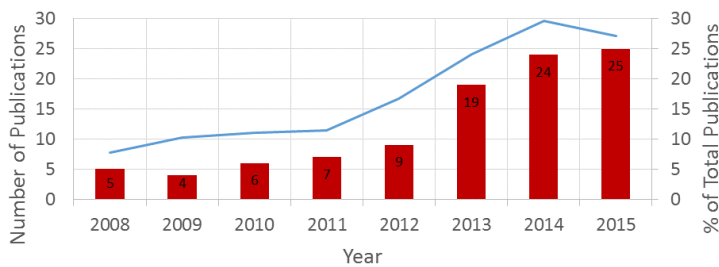
Impact can be measured in different ways and **Ewen Harrison** produced the most widely read article on the *British Journal of Surgery* website with the

90 papers per year but importantly the proportion that have an impact factor >5 is increasing and we are regularly appearing in the very highest quality journals.

The theme of increased quality has continued across grant funding with the past few years seeing a leap in

Publications with Impact Factor >5

■ Number of Publications — % of total publications

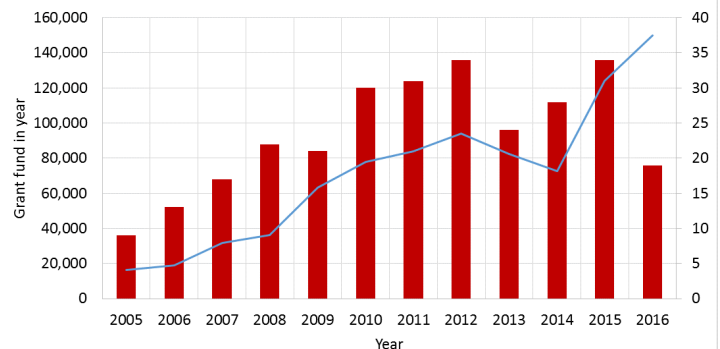


GlobalSurg 1 study and followed this with a paper on Individual surgeon mortality rates in *BMJ Open* which was featured in 64 separate media reports including the majority of the broadsheet news papers. There have been fantastic contributions from so many members of the department which are too numerous to mention.

The message that in research “quality should come above all else” seems to be hitting home. Over the past 5 years the department has been producing 70-

Number of Active Grants per year & mean annual value

■ Number of active grants — Mean grant value in year



the amount of funding per grant achieved despite the relatively harsh current funding environment.

These are achievements in which everyone should take great pride. Surgery journals tend to have relatively low impact factors with only a few having a value above 5 and so making surgically relevant research appealing to a broader readership in the higher impact mainstream journals will need to continue to be a priority for the department.

	2008	2009	2010	2011	2012	2013	2014	2015
Total Number of Publications	67	43	63	70	60	86	78	92
Minimum Impact Factor	0.39	0.57	0.04	0.21	0.29	0.21	0.94	0.29
Maximum Impact Factor	28.4	30.8	10.9	38.2	17.2	53.3	39.2	45.22
Mean Impact Factor	3.8	3.5	3.4	3.7	3.9	4.7	6.8	6.31
Median Impact Factor	2.6	4.0	3.1	3.0	3.3	3.4	3.5	3.24



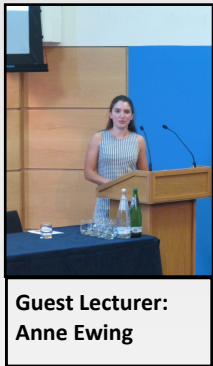
The Edinburgh School of Surgery day 2016

The annual School of Surgery day, organised by **Miss Lorna Marson** with assistance from **Clare Falconer** and **Susan Keggie**, was held earlier this month at the Royal College of Surgeons, Edinburgh.

The morning session, chaired by **Miss Lorna Marson**, was dedicated to the Undergraduate Research Symposium where medical, and for the first time, dentistry students, from around the country were invited to present their research projects. This forum provides an excellent opportunity for students to present their research in both oral and poster format.



Miss Lorna Marson chairs



Guest Lecturer: Anne Ewing

The guest lecture in the morning session was given by Anne Ewing, who is currently a Vascular Surgery Trainee in Inverness, and also competes in high level road cycling events including representing Scotland at the Commonwealth Games. Anne gave an inspirational lecture describing how it's possible to combine a surgical career with completing in sport or other interests to a high level.

The standard set during the Undergraduate Research Symposium was extremely high this year and congratulations go to **Thineskrishna Anbarasan** winner of the best oral presentation for his presentation entitled, *'Ureteroscopic biopsy of upper tract urothelial carcinoma is associated with increased intravesical recurrences on follow-up: a multi institutional SUTURE Group Study'*, and to runner up

Patricia Fingland, for her talk entitled, *'Chest X-ray is not indicated in referral for patients with suspected head and neck cancer'*.



Mrs Jenny Robson, Mr Ben Stutchfield, and Miss Janet Kung judge the undergraduate research symposium

The afternoon session focussed on postgraduate research and began with a tribute to **Professor Ken Fearon** who sadly passed away earlier this year. **Professor James Garden**, **Professor Malcolm Dunlop** and **Professor Stephen Wigmore** recalled fond memories of meeting and working with Professor Fearon throughout his award winning surgical and research career. This was followed by a tribute from **Mr Richard Skipworth** who spoke movingly about Professor Fearon as his supervisor and mentor.

Following clinical and basic science research presentations from the Research Fellows in Clinical Surgery, **Professor James Garden** hosted the visiting speaker, **Professor Jane Blazeby** from the University of Bristol who described her approach to large scale, multicentre, pragmatic clinical trials in a talk entitled, *'Designing and conducting RCTs in surgery relevant to patients and the health service'*.



Professor Jane Blazeby delivers the 2016 School of Surgery guest



Mr Nicholas Ventham delivers his prize winning research talk

Congratulations to **Mr Nicholas Ventham** who was awarded the Ian B Macleod Medal for his talk entitled, *'Integrative epigenome-wide analysis demonstrates DNA methylation may mediate genetic risk in inflammatory bowel disease'*, and to **Mr Peter Vaughan-Shaw** who was awarded the 2016

Chiene Medal for his project, *'Interaction between genetic variation at chr16q22 and plasma vitamin D influences CDH1 expression in large bowel epithelium and may explain some of the missing heritability of colorectal cancer'*.

The day culminated in dinner in the Fellows Library at the College and the chance to reflect and celebrate the successes of 2016 before the Christmas Break. The School of Surgery Day continues to provide an excellent showcase for achievements of the year which will no doubt continue into 2017



Professor James Gardens reflects on 2016

Congratulations

Professor Rowan Parks will take up the Presidency of the Association of Surgeons of Great Britain and Ireland (ASGBI) from 1st January 2017 for 2 years.

Toby Murray has successfully completed his Intercollegiate MSc with Mr Damian Mole's group. Toby also won the prize for the best oral presentation in the Cancer, Endocrinology and Pharmacology section of the National INSPIRE Intercalators' Research Conference 2016 hosted by The Academy of Medical Science

Mr Alastair Hayes was awarded the Lord Smith Medal by the Pancreatic Society of Great Britain and Ireland

Mr Damian Mole has been awarded a 5 year MRC Senior Fellowship (2017-2022; £3.1 million)

Mr Christopher Johnston has been awarded a Hunterian Lectureship by The Royal College of Surgeons England. The award bestows the courtesy title of Hunterian Professor 2017 and will see Chris deliver The Hunterian Lecture 2017 entitled, '*TGM - a novel helminth parasite-derived immunomodulatory molecule that ameliorates allograft rejection*' (date and venue to be confirmed)

Professor James Garden has been awarded The Geoff Oates Award by the British Association of Surgical Oncology (BASO). The award recognises outstanding achievement and contribution to the management of colorectal cancer. Prof Garden has also been received Honorary Membership of BASO

Recent Grant Awards

Mr Damian Mole, Dr Jonathan Fallowfield, Professor Stephen Wigmore, Professor Colin Semple, Dr Timothy Kendall & Professor James Garden in collaboration with Perspectum Diagnostics, Pelican Cancer Centre and Edinburgh University
Hepatica: Quantifying liver health in surgical candidates for liver malignancies
Technology Strategy Board/Innovate UK
2017-2019, £1.2 million

Miss Rachel Guest, *An unbiased screen for novel clinical and molecular biomarkers of the progression of primary sclerosing cholangitis to biliary tract cancer*
Primary Sclerosing Cholangitis Support
2016 - 2017, £7000

Miss Rachel Guest, Small Research Pump Priming Grant
Royal College of Surgeons, Edinburgh
2016-2017

PURE Reminder

Have you had a manuscript accepted for publication recently?

Thank you to everyone who has forwarded manuscripts for deposition in PURE.

The Open Access compliance for Clinical Sciences, of which Clinical Surgery is a part, was **81.9%** between 1 April 2016 and 31st August

Please note that in order to qualify for the next Research Excellence Framework (REF), all manuscripts must be deposited in the PURE publication repository within **3 months of acceptance** in order to comply with the University of Edinburgh Open Access Policy. **Any publications not deposited in PURE within 3 months will not be eligible for the next ref.**

What do you need to do?

Please send the finally accepted version of your manuscript and forward the acceptance email to:

Pure.ClinSurg@ed.ac.uk

The Clinical Surgery Research Manager, Katie Shaw, will deposit manuscripts in PURE on your behalf.

More information about PURE can be viewed at www.ed.ac.uk/governance-strategic-planning/research/pure

News Round Up

HealthyR: R for Healthcare data analysis

In November 2016 The Surgical Informatics group held the first HealthyR course designed to teach R data analysis specifically in the healthcare setting.



Mr Ewen Harrison and Dr Riinu Ots teach the first HealthyR course

The course, taught by Data Manager, **Dr Riinu Ots**, **Mr Ewen Harrison**, **Dr Tom Drake**, **Dr Peter Hall** and **Kenneth Mclean** was extremely well received by participants and will now run on a six monthly basis. The next course will provisionally be May 10-12th 2017

For information please see the course website <http://healthy.surgicalinformatics.org/> or contact R.Ots@ed.ac.uk



James IV Travelling Fellowship

Dr Sean C. Grondin, MD, MPH, FRCS, FACS



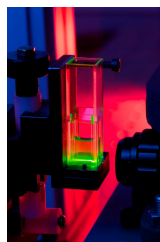
Visiting Fellow: Dr Sean Grondin

Dr Sean Grondin, Clinical and Academic Department Head of The Department of Surgery at Alberta Health Services and the University of Calgary's Cumming School of Medicine, visited the Department of Clinical Surgery as part of his James IV Travelling Fellowship at the end of November 2016.

Dr Grondin is a cardiothoracic surgeon with research interests in workforce planning, leadership skill development and surgical education. During his visit Dr Grondin visited wards and theatres as well as spending time with our Research Fellows and meeting the ESSQ, online distance learning team.

New PhD Studentships Available

OPTIMA: Optical Medical Imaging PhD studentships in Surgical Sciences

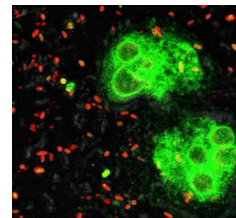


Intraoperative Optical Molecular Imaging & Sensing to guide surgical intervention is a novel and enabling technology platform that is being developed. The ability to visualise and sense molecular pathology *in vivo in situ* heralds a new era in guided intervention.

In response to this wave of optical technology and future developments, the EPSRC & MRC Centre for Doctoral Training in Optical Medical Imaging (www.optima-cdt.ac.uk) hosted by the Universities of Edinburgh and Strathclyde is now **prioritising projects on surgical applications/image guided interventions for the September 2017 cohort of PhD students.**

Our Centre offers a 4 year PhD training programme combining:

- Research and PhD supervision in Optical Medical Imaging
- A bespoke programme of business training in healthcare innovation and entrepreneurship.

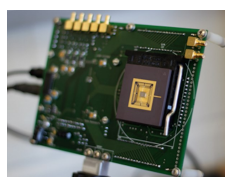


Call for proposals

Our prospective PhD students are looking to solve real-world clinical/surgical problems with cutting-edge optical imaging technologies via interdisciplinary research.

Our faculty of physical scientists at Edinburgh and Strathclyde Universities offer a pool of expertise to develop novel healthcare photonic technologies.

To achieve this, we would like to work with surgeons to identify new horizons for physical science – clinical collaborations and use our network to generate a critical mass of activity in this team. The impetus is to



- *foster new collaborations*
- *perform excellent science*
- *undertake great PhD training*
- *most importantly to have fun and push boundaries*

To learn more about submitting a proposal please contact:

Dr Kev Dhaliwal (Medical School Lead - OPTIMA)

Kev.Dhaliwal@ed.ac.uk

Dr Jean O'Donoghue (Project Manager – OPTIMA)

j.odonoghue@ed.ac.uk

Research in Progress Meeting

Thank you all presenters at the Clinical Surgery Research meetings during 2016

Amanda Roebuck
Hari Nair
Kevin Gallagher
Rachel Forsythe
Michael Hughes
Chris Johnston

Research meetings will commence again in the spring on the first Friday on the month, 3.30pm, OPD 4, RIE

Recent Publications

Johns N, Stretch C, Tan BH, Solheim TS, Sørhaug S, Stephens NA, Gioulbasanis I, Skipworth RJ, Deans DA, Vigano A, Ross JA, Bathe OF, Tremblay ML, Kaasa S, Strasser F, Gagnon B, Baracos VE, Damaraju S, Fearon KC. **New genetic signatures associated with cancer cachexia as defined by low skeletal muscle index and weight loss.** *J Cachexia Sarcopenia Muscle* , In Press, 2016

Goldring C, Antoine DJ, Bonner F, Crozier J, Denning C, Fontana RJ, Hanley NA, Hay DC, Ingelman-Sundberg M, Juhila S, Kitteringham N, Silva-Lima B, Norris A, Pridgeon C, Ross JA, Sison Young R, Tagle D, Tornesi B, van de Water B, Weaver RJ, Zhang F, Kevin Park B. **Stem cell-derived models to improve mechanistic understanding and prediction of human drug induced liver injury.** *Hepatology*, In Press, 2016

Harrison EM, Drake TM, O'Neill S, Shaw CA, Garden OJ, Wigmore SJ. **Individual surgeon mortality rates: can outliers be detected? A national utility analysis.** *BMJ Open*, 6(10): e012471; 2016

Maddocks M, Hopkinson J, Conibear J, Reeves A, Shaw C, Fearon KC. **Practical multimodal care for cancer cachexia.** *Curr Opin Support Palliat Care* , 10(4):298-305, 2016

Knight SR, Metcalfe L, O'Donoghue K, Ball ST, Beale A, Beale W, Hilton R, Hodgkinson K, Lipkin GW, Loud F, Marson LP, Morris PJ. **Defining Priorities for Future Research: Results of the UK Kidney Transplant Priority Setting Partnership.** *PLoS One* , 11(10):e0162136; 2016

McCaughan JA, Robertson V, Falconer SJ, Cryer C, Turner DM, Oniscu GC **Preformed donor-specific HLA antibodies are associated with increased risk of early mortality after liver transplantation.** *Clin Transplant* , 2016, In Press

Ventham NT, Kennedy NA, Adams AT, Kalla R, Heath S, O'Leary KR, Drummond H; IBD BIOM consortium.; IBD CHARACTER consortium., Wilson DC, Gut IG, Nimmo ER, Satsangi J. **Integrative epigenome-wide analysis demonstrates that DNA methylation may mediate genetic risk in inflammatory bowel disease.** *Nat Commun* , 7:13507, 2016

Creamer F, Balfour A, Nimmo S, Foo I, Norrie JD, Williams LJ, Fearon KC, Paterson HM. **Randomized open-label phase II study comparing oxycodone-naloxone with oxycodone in early return of gastrointestinal function after laparoscopic colorectal surgery.** *Br J Surg* , In Press, 2016

Guest RV, Boulter L, Dwyer BJ, Kendall TJ, Man TY, Minnis-Lyons SE, Lu WY, Robson AJ, Gonzalez SF, Raven A, Wojtacha D, Morton JP, Komuta M, Roskams T, Wigmore SJ, Sansom OJ, Forbes SJ. **Notch3 drives development and progression of cholangiocarcinoma.** *Proc Natl Acad Sci U S A*, 113(43):12250-12255. 2016

Garcia E, Hayden A, Birts C, Britton E, Cowie A, Pickard K, Mellone M, Choh C, Derouet M, Duriez P, Noble F, White MJ, Primrose JN, Strefford JC, Rose-Zerilli M, Thomas GJ, Ang Y, Sharrocks AD, Fitzgerald RC, Underwood TJ; OCCAMS consortium. **Authentication and characterisation of a new oesophageal adenocarcinoma cell line: MFD-1** *Sci Rep*, 6:32417, 2016

Recent Publications

M Secrier, N de Silva, M Eldridge, J Bornschein, S MacRae, N Grehan, M O'Donovan, G Contino, T Yang, L Bower, H Chettouh, J Crawte, B Nutzinger, A Achilleos, P Edwards, A Lynch, S Tavaré, RC. Fitzgerald and the OCCAMS consortium . **Mutational signatures in esophageal adenocarcinoma define aetiologically distinct subgroups with therapeutic relevance.** *Nature Genetics*, 48(10):1131-41, 2016

DM Graham, F Bannon, F Noble, JR O'Neill, JK Blayney, T Underwood, RD Kennedy, R Fitzgerald, RC Turkington **Conditional survival probability in patients with resected oesophageal adenocarcinoma receiving neoadjuvant chemotherapy.** *Annals of Oncology*, 27(6):655, 2016

F Noble, MA Lloyd, R Walker, D McManus, R Turkington, M Bedford, E Griffiths, J Whiting, B Nutzinger, N Grehan, RC Fitzgerald, JR O'Neill, RJE Skipworth, V Save, S Rupesh, S Mercer, JH Saunders, IN Soomro, SL Parsons, TJ Underwood on behalf of OCCAMS. **A multicentre cohort study to redefine and validate pathological assessment of response to neoadjuvant therapy in treated oesophagogastric adenocarcinoma.** *European Journal of Surgical Oncology*, 42(11):S252, 2016

JR O'Neill, E Kennedy, D Kremel, M Trail, O Barratt, S Paterson-Brown, RJE Skipworth **Does surgery improve survival for clinical N3 M0 oesophageal or oesophagogastric junctional cancer?** *British Journal of Surgery*, 103(s7):11, 2016

F Noble, M Lloyd, R Walker, R Turkington, JR O'Neill, RJE Skipworth, V Save, B Nutzinger, N Grehan, R Fitzgerald, M Bedford, E Griffiths, S Rupesh, S Mercer, JH Saunders, IN Soomro, SL Parsons, T Underwood . **A multicentre cohort study to redefine and validate pathological assessment of response to neoadjuvant therapy in treated oesophagogastric adenocarcinoma.** *British Journal of Surgery*, 103(S7):41, 2016

McNair AG, Whistance RN, Forsythe RO, Macefield R, Rees J, Pullyblank AM, Avery KN, Brookes ST, Thomas MG, Sylvester PA, Russell A, Oliver A, Morton D, Kennedy R, Jayne DG, Huxtable R, Hackett R, Dutton SJ, Coleman MG, Card M, Brown J, Blazeby JM. **Core Outcomes for Colorectal Cancer Surgery: A Consensus Study.** *PLoS Med*, 13(8):e1002071, 2016

McNair AGK, Brookes ST, Whistance RN, Forsythe RO, Macefield R, Rees J, Jones J, Smith G, Pullyblank AM, Avery KNL, Thomas MG, Sylvester PA, Russell A, Oliver A, Morton D, Kennedy R, Jayne DG, Huxtable R, Hackett R, Dutton SJ, Coleman MG, Card M, Brown J, Blazeby JM. **Trial outcomes and information for clinical decision-making: a comparative study of opinions of health professionals,** *Trials*, 17(1):334, 2016

Stirrat CG, Alam SR, MacGillivray TJ, Gray CD, Forsythe R, Dweck MR, Payne JR, Prasad SK, Petrie MC, Gardner RS, Mirsadraee S, Henriksen PA, Newby DE, Semple SI. **Ferumoxitol-enhanced magnetic resonance imaging methodology and normal values at 1.5 and 3T .** *J Cardiovasc Magn Reson*, 18(1):46, 2016

Richards CH, Ventham NT, Mansouri D, Wilson M, Ramsay G, Mackay CD, Parnaby CN, Smith D, On J, Speake D, McFarlane G, Neo YN, Aitken E, Forrest C, Knight K, McKay A, Nair H, Mulholland C, Robertson JH, Carey FA, Steele R; Scottish Surgical Research Group. **An evidence-based treatment algorithm for colorectal polyp cancers: results from the Scottish Screen-detected Polyp Cancer Study (SSPoCS).** *Gut*, In Press 2016

Kalla R, Kennedy NA, Ventham NT, Boyapati RK, Adams AT, Nimmo ER, Visconti MR, Drummond H, Ho GT, Pattenden RJ, Wilson DC, Satsangi J. **Serum Calprotectin: A Novel Diagnostic and Prognostic Marker in Inflammatory Bowel Diseases.** *Am J Gastroenterol*, 10(3):363-70, 2016

Lee MJ, Heywood N, Sagar PM, Brown SR, Fearnhead NS; pCD Collaborators. **Surgical Management of Fistulating Perianal Crohn's Disease - A UK Survey.** *Colorectal Dis*, In Press, 2016

Clinical Trials Update

**** Now OPEN for Recruitment ****

TWIST—Tracking Wound Infection with Smart Phone Technology

A randomised controlled trial to investigate if a smartphone tool can shorten time to diagnosis of surgical site infections.

All patients (>16) undergoing abdominal surgery who a smartphone are eligible to enter the study Visually impaired patients are excluded.

Patients will be randomised to receive either standard post-operative care or standard post-operative care plus use of the smartphone tool.

Those in the smartphone group will receive a series of questions via text message and have the facility to upload a photograph of their surgical wound.

Primary outcome measure is time to diagnosis of an SSI and secondary outcome measures will consider use of A&E and GP services

For more information please contact Principle Investigator, Mr Ewen Harrison, or Mr Michael Ramage

The Balanced Anaesthesia Study

An international multicentre RCT to assess whether 'deep' general anaesthesia is associated with altered perioperative outcome. Inclusion criteria include age above 60, ASA 3 or 4, and requiring a general anaesthetic of at least 2 hours duration.

Patients will be randomised into 1 of 2 groups, targeting 'deep' or 'less deep' anaesthesia – this is achieved by using BIS (modified EEG) monitoring and targeting a BIS level of 35 or 50. Primary outcome will be all-cause mortality at one year, and secondary outcomes will include various complications of surgery or anaesthesia

For more information contact the Edinburgh principle investigator, Dr Gary Morrison or local research nurse Alastair Lang (0131 242 9453)

OCCAMS—Oesophageal Cancer Clinical and Molecular Stratification.

A Multicentre Study to Determine Predictive and Prognostic Biomarkers and Therapeutic Targets for Oesophageal and Junctional Adenocarcinoma including Whole Genome Sequencing

This study, part of the International Cancer Genome Consortium (ICGC2), has recently been refunded by CRUK for 5 years and is continuing to recruiting. NHS Lothian have now recruited 220 patients into this study

For more information please contact Mr Rob O'Neil or Mr Richard Skipworth

PREVENTT — Preoperative intravenous iron to treat anaemia in major surgery.

A randomised, double-blind controlled phase III study to compare the efficacy and safety of intravenous ferric carboxymaltose with placebo in patients with anaemia undergoing major open abdominal surgery.

For more information, please contact Edinburgh principle investigators, Mr Ewen Harrison and Mr Richard Skipworth or the local research nurse Mr Alsatair Lang (0131 242 9453).

The NeoAegis Trial

A phase III, open-labelled RCT comparing the MAGIC neoadjuvant/adjuvant chemotherapy regimen with the CROSS neoadjuvant chemoradiation protocol in patients with cT2-3 N0-3 M0 adenocarcinoma of the oesophagus or junction. The primary objective is to evaluate 1, 2 and 3-year survival.

This trial is currently recruiting. For more information contact Mr Richard Skipworth.

Coming soon.....

The ROMIO Trial

A multicentre randomised controlled trial comparing minimally invasive verses open esophagectomy for esophageal cancer.

This trial is being run by the University of Bristol and it is anticipated that NHS Lothian will open as a trial site in early 2017.

For more information please contact Mr Peter Lamb or Mr Richard Skipworth

NEW Research Fellow

Miss Victoria Banwell



Victoria Banwell is a Surgical Registrar in General Surgery with a special interest in Renal Transplant Surgery. She started her PhD in August 2016 titled 'Targeting fibrosis in chronic allograft damage' under the supervision of Miss Lorna Marson and Dr Laura Denby. This project is based on the hypothesis that microRNA-214 is pathogenic in transplant fibrosis and can be utilised with other non-invasive investigations to diagnose early fibrosis. Through a combination of mechanistic studies in a murine transplant model and correlating microRNA-214 expression with transplant biopsy specimens, they aim to show that anti-microRNA strategies demonstrate therapeutic potential in fibrosis.

Victoria will work as a Research Fellow in the Transplant unit and has small project funding from Royal College of Surgeons of Edinburgh.

Future Conference Submission Deadlines

Conference	Date	Location	Abstract Submission
<i>Association of Surgeons of Great Britain and Ireland</i>	<i>3—5 May 2017</i>	<i>Glasgow, UK</i>	<i>9am, Jan 4th 2017</i>
<i>European-African Hepato-Pancreato-Biliary Association (E-AHPBA)</i>	<i>23—26 May 2017</i>	<i>Mainz, Germany</i>	<i>18 Jan 2017</i>
<i>International Society of Surgery (ISS-SIC) World Congress of Surgery</i>	<i>13-17 August 2017</i>	<i>Basel, Switzerland</i>	<i>18 Jan 2017</i>
<i>Royal Collage of Surgeons of Australasia (RACS) Annual Scientific Congress</i>	<i>8 –12 May 2017</i>	<i>Adelaide, Australia</i>	<i>29 Jan 2017</i>
<i>The Association for Medical Education in Europe</i>	<i>26-30 August 2017</i>	<i>Helsinki, Finland</i>	<i>Midnight, 6 Feb 2016</i>
<i>American College of Surgeons Clinical Congress</i>	<i>22-26 October 2017</i>	<i>Dan Diego, California, USA</i>	<i>5pm CST, 1 March 2017</i>
<i>European Society of Transplantation</i>	<i>24 –27 September</i>	<i>Barcelona, Spain</i>	<i>12 March 2016</i>
<i>Bethune Round Table (Evidence Based Global Surgery)</i>	<i>1-3 June 2017</i>	<i>Ottawa, Canada</i>	<i>Feb 6 2017</i>