

# **Curriculum Vitae**

**Sheraz Markar**  
**MBBChir, MA (cantab), MRCS (Eng), MSc, PhD**

**2017**

## **SUMMARY**

I attended the University of Cambridge and was awarded Master of Arts in Pathology, Bachelor of Medicine and Bachelor of Surgery. Following graduation I undertook the early part of my surgical training in Cambridge, and completed the MRCS examination and an MSc in advanced surgical practice. In 2011, I successfully gained the Ryan Hill Research Foundation fellowship, Seattle USA, with my research focused on enhanced recovery following oesophagectomy. I have a national training number in General Surgery based in Cambridge deanery currently ST4 level.

I was awarded an NIHR Doctoral Research Fellowship to support my PhD on breath analysis for oesophago-gastric cancer (written awaiting viva). I also successfully gained an NIHR Clinical Trials Fellowship to support my training in design and conduct of clinical trials at Imperial College Trials Unit. I currently chair the ESDE trainee collaborative, and have designed and implemented two ongoing multi-centre European studies. I have authored over 100 peer-reviewed publications, presented over 90 international presentations and received international awards from GI-ASCO, SSAT, ASGE, EAES, SARS and RSM.

My aspirations are to pursue a career in academic surgery with a sub-speciality interest in oesophago-gastric cancer. The focus of my research will be translational in nature, including clinical trials, and survivorship from gastro-intestinal cancer.

## **PERSONAL DETAILS**

**Address:** 34 Nutbourne Street  
London  
W104HL

**Telephone:** Home – 0208 9643896  
Mobile – 07739 307561

**E-mail:** [sheraz\\_markar@hotmail.com](mailto:sheraz_markar@hotmail.com)

**Date of Birth:** 21<sup>st</sup> April 1983

**Age:** 33 years

**Nationality:** British

**Marital Status:** Married

**GMC Number:** 6154907

**NTN Number:** EAN/021/00146/C

## **GENERAL EDUCATION**

1993 – 2001 Haberdashers' Aske's School, Elstree UK  
2001 – 2007 University of Cambridge, Cambridge UK  
2013 – 2016 Imperial College London, UK

## **QUALIFICATIONS**

2004 Bachelor of Arts (cantab) Upper Second Class  
2006 MBBChir  
2007 Master of Arts (cantab)  
2008 Member of Royal College of Surgeons of England  
2012 Master of Science (Advanced Surgical Practice)  
2016 Doctor of Philosophy

## **FELLOWSHIPS, PRIZES AND AWARDS**

### **Fellowships:**

2016 – NIHR Clinical Trials Fellowship; Imperial College Clinical Trials Unit  
2014 – NIHR Doctoral Research Fellowship; Department Surgery & Cancer, Imperial College London  
2016 – European Society for Surgical Oncology Research Fellowship, Karolinska Institutet, Stockholm, Sweden  
2011 – Ryan Hill Research Foundation Fellowship; Virginia Mason Medical Center, Seattle, WA, USA

### **Prizes & Awards:**

2005 - Outstanding Grade – General Surgery, University of Cambridge  
2006 - Outstanding Grade – Paediatric Surgery, Yale University  
2012 – Society for Surgery of the Alimentary Tract (SSAT) Resident and Fellows Research Conference Quick shot Presentation Prize  
2012 – American Society of Gastrointestinal Endoscopy (ASGE) World Cup Endoscopy Bronze Medal presentation

2012 – European Association of Endoscopic Surgery (EAES) video award presentation  
 2013 – The Glaxo Traveling Fellowship Prize, Royal Society of Medicine (RSM) surgical section  
 2014 – European Association of Endoscopic Surgery (EAES) travel grant  
 2015 – Gastro-intestinal American Society of Clinical Oncology (ASCO) Merit award  
 2015 – East Anglian Surgical club prize  
 2015 – Highest Impact publication, Academic Surgical Unit, Imperial College London  
 2016 – Society for Academic Research Surgery (SARS)/Royal Society of Medicine (RSM) Future project presentation prize  
 2016 – NIHR-BRC Pathway to Independence – future leaders in cancer research travel grant.  
 2016 – European CanCer Organisation (ECCO) Young leader’s fellowship grant.

## **EMPLOYMENT**

### **Current Employment:**

- Division of Surgery, Department of Surgery & Cancer, Imperial College London  
NIHR Clinical Lecturer (April 2017 – April 2022).
- Division of Surgery, Department of Surgery & Cancer, Imperial College London  
NIHR Clinical Trials Fellow (October 2016 – April 2017).
- Department of Surgery, Imperial College NHS Trust  
Honorary Surgery Specialist Registrar (October 2013 – April 2017).
- Clinical Effectiveness Unit, Royal College of Surgeons of England  
Clinical Research Fellow (October 2016 – April 2017).

### **Previous Employment:**

- Imperial College London  
NIHR Doctoral Research Fellow (October 2013 – October 2016).
- East of England (Cambridge) Surgical Deanery  
General Surgery Registrar (October 2012 – October 2013).
- Department of Thoracic Surgery, Virginia Mason Medical Center, Seattle, WA, USA.  
Ryan Hill Research Foundation Fellow (September 2011 – September 2012).
- London Deanery Rotation  
Core Surgical Training (October 2009 – September 2011).
- East of England (Cambridge) Deanery  
Foundation training (February 2007 – April 2009).

### **Posts:**

October 2013 – October 2016	Professor George Hanna NIHR Doctoral Research Fellow <b>St Mary’s Hospital, Imperial College, London</b>
April 2013 – October 2013	Miss N Fearnhead & Mr Hall & Mr Miller & Mr Davies & Mr Powar ST3 Colorectal Surgery <b>Addenbrooke’s hospital, Cambridge</b>

October 2012- April 2013	Mr A Harris & Mr S Gergely & Mr F DiFranco ST3 Upper Gastro-intestinal Surgery <b>Hinchingbrooke Healthcare NHS Trust</b>
September 2011- September 2012	Dr D E Low Ryan Hill Research Foundation Thoraco- Esophageal fellow <b>Virginia Mason Medical Centre, Seattle, USA</b>
April 2011- September 2011	Mr Willson & Mr Kirkby-Bott CT2 Upper Gastro-Intestinal Surgery <b>Kingston Hospital, London</b>
October 2010-April 2011	Prof Darzi & Mr Faiz & Mr Ziprin & Mr Paraskeva CT2 Academic Surgical Unit (Lower Gastro- Intestinal) <b>St Mary's Hospital, London</b>
June 2010-October 2010	Mr Lee & Mr R Patel CT1 in Trauma and Orthopaedic Surgery Dept <b>University College Hospital, London</b>
February 2010-June 2010	Prof Malago & Mr Shankar & Mr Imber CT1 in HPB Surgery Dept <b>University College Hospital, London</b>
October 2009-February 2010	Mr Cherian & Mr Mushtaq CT1 in Paediatric Urology Dept <b>Great Ormond Street Hospital, London</b>
August 2009-October 2009	Dr Horgan & Dr Wagner Research Fellow Centre for Future Surgery Dept <b>University of California, San Diego</b>
April 2009-August 2009	Mr Constance & Mr Dwerryhouse Anatomy Demonstrator <b>University of Cambridge, Cambridge</b>
December 2008-April 2009	Miss C Sudarshan & Mr S Large FY2 in Cardiothoracic Surgery Dept <b>Papworth Hospital, Cambridge</b>
August 2008-December 2008	Mr R Hardwick & Mr P Safranek FY2 Upper GI Surgery Dept <b>Addenbrooke's Hospital, Cambridge</b>

May 2008-August 2008	Prof Kelly & Mr N Shah FY2 Urology Dept <b>Addenbrooke's Hospital, Cambridge</b>
February 2008-May 2008	Mr R Hardwick & Mr P Safranek FY2 Upper GI Surgery Dept <b>Addenbrooke's Hospital, Cambridge</b>
October 2007-February 2008	Mr K Varty & Mr J Boyle FY1 Vascular Surgery Dept <b>Addenbrooke's Hospital, Cambridge</b>
June 2007-October 2007	Mr B Beckdash & Mr Anwar FY1 General Surgical Dept <b>Hinchingbrooke Hospital, Cambridge</b>
February 2007-June 2007	Dr Mathews FY1 General Medicine Dept <b>Hinchingbrooke Hospital, Cambridge</b>

### **INTERNATIONAL EXPERIENCE**

January 2016-October 2017	Professor Jesper Lagergren Research Fellow Department of Surgery & Molecular Medicine <b>Karolinska Institutet Stockholm, Sweden</b>
June 2016	Professor Marc Van Berge Henegouwen Clinical Observer <b>Department of Surgery Academic Medical Centre Amsterdam, Netherlands</b>
February 2014	Professor Christophe Mariette Clinical attachment <b>Department of Digestive and Oncological Surgery University Hospital C. Huriez Place de Verdun Lille, France</b>
September 2012	Professor Simon Law Clinical Attachment <b>Department of Thoracic Surgery The University of Hong Kong, Queen Mary Hospital, Hong Kong</b>
September 2011- September 2012	Dr Donald E Low Ryan Hill Research Foundation Thoraco- Esophageal fellow <b>Department of Thoracic Surgery</b>

September 2009	<b>Virginia Mason Medical Centre, Seattle, USA</b> Dr Moss Visiting Research Fellow <b>Department of Gastroenterology, Liver Research Centre, Brown University, Rhode Island, USA</b>
July 2009 – September 2009	Dr Horgan & Dr Wagner Visiting Research Fellow <b>Centre for Future Surgery Dept University of California, San Diego</b>
February 2006	Dr Moss & Dr Breuer Medical Student Elective <b>Department of Pediatric Surgery Yale University Hospital, USA</b>

## **RESEARCH GRANTS & FELLOWSHIPS**

### **Fellowships:**

- 1) **NIHR Doctoral Research Fellowship (£213,969) (2013–2016)** – Non-invasive Exhaled Breath analysis for the prediction of Oesophago-Gastric cancer.
- 2) **NIHR Clinical Trials Fellowship (£47,463) (2016–2017)**
- 3) **ESSO research fellowship (£2,000) (2016)** – International comparison of oesophageal cancer management.
- 4) **Ryan Hill Research Foundation Fellowship (£36,000) (2011 – 2012)** – Enhanced recovery following oesophageal cancer surgery.

### **Grants:**

- 1) **Ryan Hill Research Foundation Grant (\$3000) (Co-investigator) (2011)** – Comparison of outcome following Esophagectomy from International databases.
- 2) **TEW Foundation Grant (\$9500) (Co-investigator) (2011)** – Whole Body Plethysmography following Para-oesophageal hernia repair.
- 3) **Wellcome Trust Facility Network of Excellence (£100,000) (Co-investigator) (2015–2017)** – Network of Excellence for the development of a Point-of-Care Breath Analysing device for Oesophago-Gastric cancer screening.
- 4) **CRUK Early Diagnosis Innovation Workshop grant (£20,000) (Co-investigator) (2016–2017)** – Increasing the acceptability of oesophageal screening; Elixiprine: a urine test to reduce endoscopy use.

## **LEADERSHIP**

- 1) Chairman; Trainee Chapter, European Society for Diseases of the Esophagus (ESDE) 2014 to present
- 2) Clinical Research Committee member, European Society of Surgical Oncology (ESSO) 2016 to present
- 3) Membership committee member, International Society for Diseases of Esophagus (ISDE) 2014 to present
- 4) Pathways to Independence – future leaders in cancer research course, BRC network, 2016.

- 5) International relations committee, Society for Surgery of the Alimentary Tract (SSAT) 2014 to 2015

### **ACADEMIC ACTIVITIES**

- 1) Study coordinator on two multi-centre European studies:
  - a. LASER – Lasting Symptoms After Esophageal Resection
  - b. PACES – Psychological Analysis of Cancer of the Esophagus Surgery
- 2) Associate Editor, Diseases of the Esophagus journal.
- 3) Reviewer for New England Journal of Medicine, Annals of Surgery, British Journal of Surgery, and Surgical Endoscopy, 2011 – to present
- 4) Surgical Team leader for In-hospital Delirium action group, Virginia Mason Medical Center, Seattle, 2012

### **EDUCATION AND TEACHING**

- 1) Lecturer, MSc Measuring Performance, Imperial College, London 2016
- 2) Lecturer MSc Oesophago-Gastric Surgery, Imperial College, London 2016
- 3) Surgical PACES finals exam coordinator, Imperial College, London 2014
- 4) Surgical tutor – ASIT foundation surgical skills course, Imperial College 2014–2016
- 5) Surgical tutor – Core Surgical Training day East of England; Laparoscopic Appendicectomy 2013
- 6) Lecturer (Enhanced recovery in UGI Surgery) – East of England Surgical teaching 2013
- 7) Lecturer, MATTU Oesophago-gastric cancer symposium 2012
- 8) Clinical Examiner, London MRCS part B teaching course 2012
- 9) Surgical Tutor, Imperial College London 2011
- 10) Anatomy Demonstrator Anatomy Dept. Imperial College London 2011
- 11) Anatomy Demonstrator Anatomy Dept. Cambridge University 2009
- 12) Clinical Supervisor to Robinson and Selwyn Colleges, Cambridge University 2009
- 13) Anatomy Demonstrator Anatomy Dept. Imperial College London 2008
- 14) Lecturer on Cambridge University Basic Surgical Skills Course 2008

### **EXTRA-CURRICULAR ACTIVITIES**

- 1) Charity Fund-raiser for Liver and Pancreatic Research UK 2010–2012
- 2) Cricket – I was previously captain of the Cambridge University Medical School and I maintain a strong interest and continued to play cricket during my surgical training.
- 3) Golf – At Cambridge University I played as part of the medical school team, and I continue to play regularly

### **THESES, PUBLICATIONS, PRESENTATIONS AND AUDIT**

#### **Bachelor of Arts Dissertation 2004**

The Role of alpha synuclein in the pathogenesis of Parkinsonism

#### **Master of Science Dissertation 2011**

## Natural Orifice Transluminal Endoscopic Surgery; Transvaginal Cholecystectomy – A Critical Appraisal

### Doctor of Philosophy 2016

Non-invasive Volatile Organic Compound analysis from Exhaled Breath for the diagnosis of Oesophago-gastric cancer

### PEER REVIEWED PUBLICATIONS

#### Top Ten Recent Publications:

- 1) **Markar SR**, Wiggins T, Ni M, Steyerberg EW, Van Lanschot JJB, Sasako M, Hanna GB. Assessment of quality of surgery within randomised controlled trials for the treatment of gastro-oesophageal cancer. *Lancet Oncol* 2015; 16:e23–31. **(Impact Factor (IF): 26.5)**.
- 2) **Markar SR**, Gronnier C, Duhamel A, Pasquer A, Thereaux J, du Rieu MC, Lefevre JH, Turner K, Luc G, Mariette C, on behalf of the FREGAT working group-FRENCH-AFC. Salvage surgery following chemoradiotherapy in the management of esophageal cancer: is it a viable therapeutic option? *J Clin Oncol* 2015; 33: 3866–73. **(IF: 21.0)**.
- 3) **Markar SR**, Mackenzie H, Lagergren P, Hanna GB, Lagergren J. Surgical proficiency gain and survival following esophagectomy for cancer. *J Clin Oncol* 2016; 34: 1528–36 **(IF: 21.0)**.
- 4) **Markar SR**, Mackenzie H, Ni M, Huddy JR, Askari A, Faiz O, Griffin SM, Lovat L, Hanna GB. The influence of procedural volume and proficiency-gain on mortality from upper gastrointestinal endoscopic mucosal resection. *Gut* 2016 [Epub ahead of print] **(IF: 14.9)**.
- 5) **Markar SR**, Mackenzie H, Wiggins T, Askari A, Faiz O, Zaninotto G, Hanna GB. Management and outcomes of esophageal perforation: a national study of 2564 patients in England. *Am J Gastroenterol* 2015; 110: 1559–66. **(IF: 10.8)**.
- 6) **Markar SR**, Noordman BJ, Mackenzie H, Findlay JM, Boshier PR, Ni M, Steyerberg EW, van der Gaast A, Hulshof MCCM, Maynard N, van Berge Henegouwen MI, Wijnhoven BPL, Reynolds JV, Van Lanschot JJB, Hanna GB. Multimodality treatment for esophageal adenocarcinoma: Multi-center propensity-score matched study. *Ann Oncol* 2016 [Epub ahead of print]. **(IF: 9.3)**.
- 7) **Markar SR**, Mackenzie H, Huddy JR, Jemal S, Askari A, Faiz O, Hanna GB, Zaninotto G. Practice patterns and outcomes following hospital admission with acute para-esophageal hernia in England. *Ann Surg* 2016; 264: 854–61. **(IF 8.3)**.
- 8) **Markar SR**, Gronnier C, Duhamel A, Mabrut JY, Bail JP, Carrere N, Lefevre JH, Brigand C, Vailant JC, Adham M, Msika S, Demartines N, Nakadi IE, Meunier B, Collet D, Mariette C, on behalf of the FREGAT working group-FRENCH-AFC. The

impact of severe anastomotic leak on long-term survival and cancer recurrence following surgical resection for esophageal malignancy. *Ann Surg* 2015; 262: 972–80. **(IF: 8.3)**.

- 9) **Markar SR**, Gronnier C, Duhamel A, Pasquer A, Thereaux J, Rieu MC, Lefevre JH, Turner K, Luc G, Mariette C, on behalf of the FREGAT working group-FRENCH-AFC. Significance of microscopically incomplete resection margin following esophagectomy for esophageal cancer. *Ann Surg* 2016; 263: 712–8. **(IF: 8.3)**.
- 10) Bouras G, **Markar SR**, Burns EM, Mackenzie HA, Bottle A, Athanasiou T, Hanna GB, Darzi A. Linked hospital and primary care database analysis of the incidence and impact of psychiatric morbidity following gastrointestinal cancer surgery in England. *Ann Surg* 2016; 264: 93–9. **(IF: 8.3)**.

#### **Other Publications:**

- 11) **Markar SR**, Gronnier C, Pasquer A, Duhamel A, Behal H, Thereaux J, Gagniere J, Lebreton G, Brignad C, Meunier B, Collet D, Mariette C, on behalf of the FREGAT working group – FRENCH- AFC. Surgical treated esophageal cancer developed in a radiated field: Impact on peri-operative and long-term outcomes. *Eur J Cancer* 2017; 75: 179 – 189.
- 12) **Markar SR**, Hanna GB. Surgical resection of gastric cancer hepatic metastases: expanding the indications for curative treatment. *Trans Gastroenterol Hepatol* 2016; 1: 80
- 13) Acharya A, **Markar SR**, Matar M, Ni M, Hanna GB. Use of tumour markers in Gastro-Intestinal cancers: Surgeon perceptions and cost-benefit tradeoff analysis. *Ann Surg Oncol* 2016 [Epub ahead of print].
- 14) **Markar SR**, Bouras G, Burns EM, Huddy JR, Bottle A, Athanasiou T, Darzi A, Hanna GB. The psychological impact of symptoms related to esophagogastric cancer resection presenting in primary care: a national linked database study. *Eur J Surg Oncol* 2016 [Epub ahead of print].
- 15) **Markar SR**, Lagergren J. Minimising patient harm whilst gaining surgical proficiency. *J Thorac Dis* 2016; 8: E1427 – E1428.
- 16) **Markar SR**, Mavrovelli S, Petrides D, Scarpa M, Christophe V, Castoro C, Mariette C, Lagergren P, Hanna GB. An applied investigation of person- and context-specific factors on postoperative recovery and clinical outcomes of patients undergoing gastrointestinal cancer surgery: Multi-centre European study. *BMJ Open* 2016; 6: e012236.
- 17) Acharya A, **Markar SR**, Wiggins H, Wiggins T, Huddy JR, Hanna GB. Surgical pre-admissions: Still an under-utilised resource in HIV? *Lancet HIV* 2016; 3: e459–60.

- 18) **Markar SR**, Wahlin K, Mattsson F, Lagergren P, Lagergren J. Surgery during holiday periods and prognosis in oesophageal cancer – a population-based nationwide Swedish cohort study. *BMJ Open* 2016; 6: e013069.
- 19) Wong KA, Hodgson L, Garas G, Malietzis G, **Markar S**, Rao C, von Segesser LK, Athanasiou T. How can cardiothoracic and vascular medical devices stay in the market? *Interact Cardiovasc Thorac Surg* 2016 [Epub ahead of print].
- 20) Acharya A, **Markar SR**, Ni M, Hanna GB. Biomarkers of acute appendicitis: Systematic review and cost-benefit tradeoff analysis. *Surg Endosc* 2016 [Epub ahead of print].
- 21) **Markar SR**, Wahlin K, Lagergren P, Lagergren J. University hospital status and prognosis following surgery for esophageal cancer. *Eur J Surg Oncol* 2016; 42: 1191–5.
- 22) Schmidt HM, El Lakis MA, **Markar SR**, Hubka M, Low DE. Accelerated recovery within standardized recovery pathways after esophagectomy: a prospective cohort study assessing the effects of early discharge on outcomes, readmissions, patient satisfaction and costs. *Ann Thorac Surg* 2016; 102: 931–9.
- 23) Huddy JR, **Markar SR**, Ni MZ, Morino M, Targarona EM, Zaninotto G, Hanna GB. Laparoscopic repair of hiatus hernia: does mesh type influence outcome? A meta-analysis and European survey study. *Surg Endosc* 2016; 30: 5209–21.
- 24) **Markar SR**, Mackenzie H, Mikhail S, Mughal M, Preston SR, Maynard ND, Faiz O, Hanna GB. Surgical resection of hepatic metastases from gastric cancer – outcomes from national series in England. *Gastric cancer* 2016 [Epub ahead of print].
- 25) Khanderia E, **Markar SR**, Acharya A, Kim Y, Kim YW, Hanna GB. The influence of gastric cancer screening upon stage at diagnosis and survival: meta-analysis of comparative studies in the Far East. *J Clin Gastroenterol* 2016; 50: 190–7.
- 26) **Markar SR**, Gronnier C, Pasquer A, Duhamel A, Beal H, Thereaux J, Gagniere J, Lebreton G, Brigand C, Meunier B, Collet D, Mariette C, on behalf of the FREGAT working group-FRENCH-AFC. Role of neoadjuvant treatment in clinical T2N0M0 Esophageal cancer: Results from a retrospective multi-center European study. *Eur J Cancer* 2016; 56: 59–68.
- 27) **Markar SR**, Mikhail S, Malietzis G, Athanasiou T, Mariette C, Sasako M, Hanna GB. Influence of surgical resection of hepatic metastases from gastric adenocarcinoma on long-term survival: systematic review and pooled analysis. *Ann Surg* 2016; 263: 1092–101

- 28) **Markar SR**, Lagergren J, Hanna GB. Research protocol for a diagnostic study of non-invasive exhaled breath analysis for the prediction of oesophago-gastric cancer. *BMJ Open* 2016; 6: e009139
- 29) Antonowicz S, Kumar S, Wiggins T, **Markar SR**, Hanna GB. Diagnostic metabolomic blood tests for endoluminal gastrointestinal cancer – a systematic review and assessment of quality. *Cancer Epidemiol Biomarkers Prev* 2015; 25: 6–15.
- 30) Mackenzie H, **Markar SR**, Askari A, Ni M, Faiz O, Hanna GB. The national proficiency gain curves for minimal access gastrointestinal cancer surgery. *Br J Surg* 2016; 103: 88–96.
- 31) Patel K, Abbassi-Ghadi N, **Markar SR**, Kumar S, Jethwa P, Zaninotto G. Per-oral endoscopic myotomy (POEM) for the treatment of oesophageal achalasia: systematic review and pooled analysis. *Dis Esophagus* 2016; 29: 807–19.
- 32) Wiggins T, **Markar SR**, Arya S, Hanna GB. Anastomotic reinforcement with omentoplasty following gastrointestinal anastomosis: a systematic review and meta-analysis. *Surg Onc* 2015; 24: 181–6.
- 33) Singh M, Harris-Birtill D, **Markar SR**, Hanna GB, Elson D. Application of Gold Nanoparticles for Gastrointestinal Cancer Theranostics: A Systematic Review. *Nanomedicine* 2015; 11: 2083–98.
- 34) Sovova K, Wiggins T, **Markar SR**, Hanna GB. Quantification of phenol in urine headspace using SIFT-MS and investigation of variability with respect to urinary concentration. *Anal Methods* 2015 [Epub ahead of print].
- 35) **Markar SR**, Wiggins T, Antonowicz S, Zacharakis E Hanna GB. Minimally invasive esophagectomy: Lateral decubitus vs. prone positioning; Systematic review and Pooled analysis. *Surg Onc* 2015; 24: 212–9.
- 36) Ngo A, **Markar SR**, Hamady MS. A systematic review of outcomes following percutaneous transluminal angioplasty and stenting in the treatment of transplant renal artery stenosis. *Cardiovasc Intervent Radiol* 2015; 38: 1573–88.
- 37) Huddy J, Ni M, **Markar S**, Hanna GB. Point-of-care testing in the diagnosis of gastrointestinal cancers: Current technology and future directions. *World J Gastroenterol* 2015; 21: 4111–20.
- 38) Wiggins T, **Markar S**, Harris A. Laparoscopic adhesiolysis for acute small bowel obstruction – Systematic review and pooled analysis. *Surg Endosc* 2015; 29: 3432–42.
- 39) **Markar S**, Gronnier C, Duhamel A, Bigourdan JM, Badic B, Carrere N, Lefevre JH, Turner K, Luc G, Mariette C, on behalf of the FREGAT working group-FRENCH-

AFC. Pattern of postoperative mortality after esophageal cancer resection according to center volume: results from a large European multi-center study. *Ann Surg Oncol* 2015; 22: 2615–23.

- 40) Dasari BVM, Baker J, **Markar S**, Gardiner K. Laparoscopic appendectomy in obese patients is associated with significant improvements in clinical outcome: Systematic review. *Int J Surg* 2014; 13C: 250–6.
- 41) Sodergren MH, **Markar S**, Pucher PH, Badran I, Jiao L, Darzi A. Safety of transvaginal hybrid NOTES cholecystectomy: a systematic review and meta-analysis. *Surg Endosc* 2015; 28: 2077–90.
- 42) Wiggins T, Kumar S, **Markar SR**, Antonowicz S, Hanna GB. Tyrosine, phenylalanine and tryptophan in gastro-esophageal malignancy – a systematic review. *Cancer Epidemiol, Biomarkers Prev.* 2015; 24: 32–8.
- 43) **Markar SR**, Wiggins T, Kumar S, Hanna GB. Exhaled breath analysis for the diagnosis and assessment of endoluminal gastro-intestinal disease. *J Clin Gastroenterol* 2015; 49: 1–8
- 44) **Markar SR**, Wiggins T, Penna M, Paraskeva P. Single incision versus conventional multiport laparoscopic colorectal surgery; systematic review and pooled analysis. *J Gastrointest Surg* 2014; 18: 2214–27
- 45) **Markar SR**, Hanna GB. Minimally Invasive Esophagectomy for Dysplastic Barrett’s Esophagus. *World J Surg* 2015; 39: 608–14
- 46) **Markar SR**, Zaninotto G. Laparoscopic Heller myotomy for achalasia: does the age of the patient affect the outcome? *World J Surg* 2015; 39: 1608–13
- 47) Munasinghe A, **Markar SR**, Mamidanna R, Darzi AW, Faiz OD, Hanna GB, Low DE. Is it time to centralize high-risk cancer care in the United States? Comparison of outcomes of Esophagectomy between England and the United States. *Ann Surg* 2015; 262: 79–85.
- 48) **Markar SR**, Penna M, Harris A. Laparoscopic approach to Appendectomy reduces the incidence of short- and long-term Postoperative Bowel obstruction: Systematic review and Pooled analysis. *J Gastrointest Surg* 2014; 18: 1683–92.
- 49) **Markar SR**, Schmidt H, Kunz S, Bodnar A, Hubka M, Low DE. Evolution of Standardized Clinical Pathways: Refining Multidisciplinary care and Process to improve Outcomes of the Surgical Treatment of Esophageal Cancer. *J Gastrointest Surg* 2014; 18: 1238–46.
- 50) **Markar SR**, Karthikesalingam A, Low DE. Enhanced Recovery Pathways lead to an Improvement in Post-operative Outcomes following Esophagectomy: Systematic Review and Pooled analysis. *Dis Esophagus* 2015; 28: 468–75.

- 51) Arya S, **Markar S**, Karthikesalingam A, Hanna GB. The Impact of Pyloric Drainage on Clinical Outcome following Esophagectomy: A Systematic Review. *Dis Esophagus* 2015; 28: 326–35.
- 52) **Markar SR**, Pinto D, Penna M, Karthikesalingam A, Bulathsinghala BKS, Kumaran K, Hashemi M, Fernando R. A Comparative International Study on the Management of Acute Appendicitis between a Developed Country and a Middle Income Country. *Int J Surg* 2014; 12: 357–60
- 53) Vyas S, **Markar S**, Partelli S, Fotheringham T, Low D, Imber C, Malago M, Kocher HM. Portal Vein Embolization and Ligation or Extended Hepatectomy. *Indian J Surg Oncol* 2014; 5: 30–42.
- 54) Chadwick G, Groene O, **Markar S**, Hoare J, Cromwell D, Hanna G. Systematic Review comparing Radiofrequency ablation and complete Endoscopic resection in treating dysplastic Barrett's: a critical assessment of histological outcomes and adverse events. *Gastrointest Endosc* 2014; 79: 718–31
- 55) Penna M, **Markar S**, Hewes J, Fiennes A, Jones N, Hashemi M. Adolescent Bariatric Surgery – Thoughts and Perspectives from the UK. *Int J Environ Res Public Health* 2013; 11: 573–82
- 56) **Markar SR**, Karthikesalingam A, Di Franco F, Harris A. Single Incision (SILA) vs. Conventional Multiport Appendicectomy: Systematic review and Meta-analysis. *Br J Surg* 2013; 100: 1709–18
- 57) **Markar SR**, Karthikesalingam A, Penna M, Low DE. Assessment of Short-term Clinical Outcomes following Salvage Esophagectomy for the Treatment of Esophageal malignancy: Systematic review and Pooled analysis. *Ann Surg Onc* 2014; 21: 922–31
- 58) Gall TMH, **Markar SR**, Jackson D, Haji A, Faiz O. Mini-probe ultrasonography for the staging of colon cancer. A systematic review and meta-analysis. *Colorectal Dis* 2014; 16: 1–8
- 59) **Markar SR**, Arya S, Karthikesalingam A, Hanna GB. Technical Factors affecting Anastomotic integrity following Esophagectomy: Systematic review and Meta-analysis. *Ann Surg Oncol* 2013; 20: 4274–81
- 60) **Markar SR**, Bodnar A, Rosales J, Song G, Low DE. The Impact of Neoadjuvant Chemoradiotherapy on Perioperative Outcomes, Tumor Pathology, and Survival in Clinical Stage II and III Esophageal Cancer. *Ann Surg Oncol* 2013; 20: 3935–41.
- 61) Canaud L, Karthikesalingam A, Jackson D, Cresswell L, Cliff M, **Markar S**, Maytham G, Black S, Thompson M. Clinical outcomes of single versus stage

hybrid repair for thoracoabdominal aortic aneurysm. *J Vasc Surg* 2013; 58: 1192–200

- 62) **Markar S**, Low D. Reply. *Ann Thorac Surg* 2013; 95: 2211–12
- 63) Nachiappan S, **Markar S**, Karthikesalingam A, Ziprin P, Faiz O. Prophylactic Mesh placement in high risk patients undergoing Elective Laparotomy: A Systematic Review. *World J Surg* 2013; 37: 1861–71
- 64) Carrott PW, **Markar SR**, Hong J, Kuppusamy MK, Koehler RP, Low DE. Iron Deficiency Anemia is a common presenting issue with Giant Paraesophageal hernia and resolves following repair. *J Gastrointest Surg* 2013; 17: 858–62
- 65) **Markar S**, Smith I, Karthikesalingam A, Low DE. The Clinical and Economic Cost of Delirium following Surgical Resection for Esophageal malignancy. *Ann Surg* 2013; 258: 77–81.
- 66) **Markar SR**, Kathikesalingam A, Jackson D, Hanna G. Long term survival following Gastrectomy for cancer in randomized controlled oncological trials: comparison between West and East. *Ann Surg Onc* 2013; 20: 2328–38
- 67) Hanna GB, Arya S, **Markar SR**. Variation in the Standard of Minimally Invasive Esophagectomy for Cancer – Systematic Review. *Semin Thorac Cardiovasc Surg* 2012; 24: 176–87
- 68) Preston SR, **Markar S**, Baker CR, Soon Y, Singh S, Low DE. Impact of Multidisciplinary Standardised Clinical Pathways on Perioperative Outcomes in Patients with Oesophageal cancer. *Br J Surg* 2013; 100: 105–12
- 69) **Markar SR**, Low DE. Physiology not Chronology dictates Outcomes following Esophagectomy for Esophageal Cancer: Outcomes in Patients 80 years and older. *Ann Surg Onc* 2013; 20: 1020–6.
- 70) **Markar S**, Karthikesalingam A, Low DE. Outcomes assessment of the Surgical management of Esophageal cancer in younger and older patients. *Ann Thorac Surg* 2012; 94: 1652–8
- 71) **Markar S**, Penna M, Hashemi M. Robotic Bariatric Surgery: Bypass, Band and Sleeve; Where are we now? And what is the future? *Minerva Gastroenterol Dietol* 2012; 58: 181–90
- 72) **Markar S**, Koehler R, Low DE, Ross A. Novel Multimodality Endoscopic Closure of Postoperative Esophageal Fistula. *Int J Surg Case Rep* 2012; 3: 577–9
- 73) **Markar S**, Blackburn S, Cobb R, Karthikesalingam A, Evans J, Kinross J, Faiz O. Laparoscopic versus Open Appendectomy for Complicated and Uncomplicated Appendicitis in Children. *J Gastrointest Surg* 2012; 16: 1993–2004

- 74) Southgate E, Vousden N, Karthikesalingam A, **Markar SR**, Black S, Zaidi A. Laparoscopic vs. Open Appendectomy in Older patients. *Arch Surg* 2012; 147: 557–62
- 75) Grailey K, **Markar S**, Karthikesalingam A, Aboud R, Ziprin P, Faiz O. Laparoscopic versus Open Colorectal resection in the Elderly population. *Surg Endosc* 2013; 27: 19–30
- 76) Kinross JM, **Markar S**, Karthikesalingam A, Chow A, Penney N, Silk D, Darzi A. A meta-analysis of probiotic and symbiotic use in elective surgery: Does nutritional modulation of the gut microbiome improve clinical outcome? *JPEN J Parenter Enteral Nutr* 2013; 37: 243–53
- 77) Carrott PW, **Markar SR**, Kuppusamy MK, Traverso LW, Low DE. Accordion Severity Grading System: Assessment of Relationship between Costs, Length of Hospital stay and Survival in Patients with Complications Following Esophagectomy for Cancer. *J Am Coll Surg* 2012; 215: 331–6
- 78) **Markar SR**, Ross A, Low DE. Gastric ulceration following esophageal stent migration complicating surgical management of esophageal cancer. *Interact Cardiovasc Thorac Surg* 2012; 15: 320–2
- 79) **Markar SR**, Karthikesalingam A, Thrumurthy S, Ho A, Muallem G, Low DE. Systematic review and Pooled analysis assessing the association between Elderly age and Outcome following Surgical resection of Esophageal malignancy. *Dis Esophagus* 2013; 26: 250–62
- 80) **Markar SR**, Kinross J. Authors' reply to: Single Incision (SILS) vs. Conventional Multiport Cholecystectomy: Systematic review and Meta-analysis. *Surg Endosc* 2012; 26: 3000–1
- 81) **Markar SR**, Penna M, Karthikesalingam A, Hashemi M. The Impact of Hospital and Surgeon Volume on Clinical Outcome following Bariatric Surgery. *Obes Surg* 2012; 22: 1126–34
- 82) Penna M, **Markar SR**, Venkat-Ramen V, Karthikesalingam A, Hashemi M. Linear versus Circular Stapled Laparoscopic Gastro-Jejunal Anastomosis in Morbid obesity: Meta-Analysis. *Surg Laparosc Endoscopy Percutan Tech.* 2012; 22 (2): 95–101
- 83) **Markar SR**, Vyas S, Karthikesalingam A, Imber C, Malago M. The Impact of Pancreatic Duct drainage following Pancreaticojejunostomy on Clinical Outcome. *J Gastrointest Surg* 2012; 16: 1610–7

- 84) **Markar SR**, Karthikesalingam A, Thrumurthy S, Muirhead L, Kinross J, Paraskeva P. Single Incision (SILS) vs. Conventional Multiport Cholecystectomy: Systematic review and Meta-analysis. *Surg Endosc* 2012; 26: 1205–13
- 85) **Markar SR**, Karthikesalingam A, Thrumurthy S, Low DE. Volume-Outcome relationship in Esophageal Surgery: Systematic Review and Meta-analysis 2000 – 2011. *J Gastrointest Surg* 2012; 16: 1055–63
- 86) **Markar SR**, Jones GG, Kathikesalingam A, Segran N, Patel RV. Transfusion drains versus Suction drains in Total Knee Replacement: Meta-analysis – *Knee Surg, Sports Traumatol, Arthrosc* 2012; 20: 1766–72
- 87) **Markar SR**, Karthikesalingam A, Cunningham J, Burd C, Bond-Smith G, Kurzawinski TR. Increased use of preoperative imaging and laparoscopy has no impact on clinical outcomes in patients undergoing appendicectomy – *Ann R Coll Engl* 2011; 8: 620–3
- 88) **Markar SR**, Karthikesalingam A, Venkat-Ramen V, Kinross J, Ziprin P. Robotic vs. Laparoscopic Roux-en-Y Gastric Bypass in Morbidly Obese patients: Systematic review and Pooled analysis – *Int J Med Robot.* 2011; 7(4): 393–400
- 89) Vyas S, **Markar SR**, Iordanidou L, Bomanji J, Read S, Stoker D, Hashemi MJ, Mitchell I, Winslet M. The role of integrated FDG-PET/CT scanning in the detection of M1 disease in Esophageal Adenocarcinoma and impact on clinical management – *J Gastrointest Surg* 2011; 15(12): 2127–35
- 90) **Markar SR**, Venkat-Ramen V, Ho A, Karthikesalingam A, Kinross J, Evans J, Bloom I. Laparoscopic versus Open Appendicectomy in Obese Patients – *Int J Surg* 2011; 9(6): 451-5
- 91) **Markar SR**, Kolic I, Karthikesalingam A, Wagner OJ, Hagen ME. International survey study of attitudes towards robotic surgery; *J Robotic Surg* 2012; 6: 231–5
- 92) **Markar SR**, Penna M, Venkat-Ramen V, Karthikesalingam A, Hashemi M. The influence of Circular Staple Diameter on Post-operative Stenosis following Laparoscopic Gastro-Jejunal Anastomosis in Morbid Obesity – *Surg Obes Relat Dis* 2012; 8: 230–5
- 93) **Markar SR**, Sadat U, Edmonds L, Nair SK. Mitral valve repair versus replacement in Elderly population. *Journal of Heart Valve Disease* 2011; 20(3): 265–71.
- 94) Vyas S, **Markar S**, Ezzat T, Rodriguez-Justo M, Webster G, Imber C, Malago M. Hepato-biliary Cystadenoma with Intraductal Extension: Unusual Cause of Obstructive Jaundice. *J Gastrointest Cancer* 2012; 43: S32–7.
- 95) **Markar SR**, Karthikesalingam A, Wagner OJ, Jackson D, Hewes JC, Vyas S, Hashemi M. Systematic review and meta-analysis of laparoscopic Nissen

fundoplication with or without division of the short gastric vessels. *Br J Surg* 2011; 98(8): 1056–62

- 96) **Markar SR**, Karthikesalingam A, Vyas S, Hashemi M, Winslet M. Hand-sewn versus Stapled Oesophago-gastric anastomosis; Systematic review and Meta-Analysis – *J Gastrointest Surg* 2011; 15(5): 876-84
- 97) Vyas S, **Markar SR**, Ezzat TM, Ajit A. Cystic lesions of the pancreas: current trends in approach and management. *Postgrad Med J* 2011; 87(1025): 207-14
- 98) Bucknor A, Karthikesalingam A, **Markar SR**, Holt PJ, Jones I. A Comparison of the effect of different surgical gloves on objective measurement of fingertip cutaneous sensibility. *Ann R Coll Surg Engl.* 2011; 93 (2): 95–8
- 99) **Markar SR**, Karthikesalingam A, Falzon A, Kan Y. The Diagnostic value of Neutrophil: Lymphocyte ratio in Adults with Suspected Acute Appendicitis. *Acta Chir Belg* 2010; 110(5): 543-7
- 100) Hagen ME, Pugin F, Bucher P, Fasel J, **Markar SR**, Morel P. Robotic kidney implantation for kidney transplantation: initial experience. *J Robotic Surg* 2010; 4(4): 271–6
- 101) Taghavi F, **Markar S**, Williams M, Large S. Intra-cardiac metastasis from testicular non-seminoma germ cell tumour; to resect or not to resect. *Interact Cardiovasc Thorac Surg* 2010; 11(6): 843–5.
- 102) **Markar SR**, Karthikesalingam A, Alam F, Tang TY, Walsh SR, Sadat U. Partially or completely absorbable versus nonabsorbable mesh repair for inguinal hernia: a systematic review and meta-analysis. *Surg Laparosc Endosco Percutan Tech* 2010; 20:213-9
- 103) Kather J, Hagen ME, Morel P, Fasel J, **Markar S**, Schueler M. Robotic Hip Arthroscopy in human anatomy. *Int J Med Robot* 2010 ; 6: 301-5
- 104) **Markar SR**, Karthikesalingam A, Hagen ME, Horgan S, Talamini M, Wagner O. Robotic versus Laparoscopic Nissen Fundoplication; Systematic Review and Meta-Analysis. *Int J Med Robot* 2010; 6:125–31.
- 105) Polanski LT, **Markar SR**, Satydas T, Praseedom R, Shaw A. Primary amyloidosis presenting as Cholestatic Jaundice. *BMJ Case Reports* 2010; doi:10.1136/bcr.06.2009.1974
- 106) Karthikesalingam A, **Markar S**, Holt P, Praseedom R. Author’s reply: Meta-analysis of randomized controlled trials comparing laparoscopic with open mesh repair of recurrent inguinal hernia. *Br J Surg* 2010; 97: 621-2

- 107) Karthikesalingam A, **Markar SR**, Holt PJ, Praseedom RK. Meta-analysis of randomized controlled trials comparing laparoscopic with open mesh repair of recurrent inguinal hernia. *Br J Surg* 2010; 97: 4-11
- 108) **Markar SR**, Kutty R, Sadat U, Edmonds L, Nair S. Meta-analysis of Endoscopic versus Open Vein Harvest for Coronary Artery Bypass Surgery. *Interact Cardiovasc Thorac Surg*. 2010; 10:266-70
- 109) **Markar SR**, Walsh SR, Griffin K, Khandanpour N, Tang TY, Boyle JR. Assessment of a multifactorial risk index for predicting postoperative pneumonia after open abdominal aortic aneurysm repair. *Vascular*. 2009; 17: 36-9
- 110) Karthikesalingam A, **Markar SR**, Weerakody R, Walsh SR, Carroll N, Praseedom R. Radiation exposure during laparoscopic cholecystectomy with routine intraoperative cholangiography.–*Surg Endosc* 2009; 23: 1845-8
- 111) Cooper DG, **Markar S**, Walsh SR, Cousins C, Hayes PD, Boyle JR. Hybrid Endovascular Repair of an Aneurysmal Chronic Type B Dissection in a Patient with Marfan Syndrome With an Aberrant Right Subclavian Artery. *Vasc Endovascular Surg*. 2009; 43: 271-6.
- 112) Griffin KJ, Walsh SR, **Markar S**, Tang TY, Boyle JR, Hayes PD. The Pink Pulseless Hand; Supracondylar fractures. *Eur J Vasc Endovasc Surg*. 2008; 36: 697-702.
- 113) Karthikesalingam A, Walsh SR, **Markar SR**, Sadat U, Tang TY, Malata CM. Continuous Infusion of Local Anaesthetic Agents following Colorectal Surgery: Systematic Review and Meta-Analysis. *World J Gastroenterol*. 2008; 14: 5301-5.

#### **PAPERS IN PRESS**

- 114) **Markar SR**, Mackenzie H, Jemal S, Faiz O, Cunningham D, Hanna GB. Emergency presentation of esophago-gastric cancer: predictors and long-term prognosis. *Ann Surg* 2017 [Epub ahead of print].

#### **NON-PEER REVIEWED PUBLICATIONS:**

- 1) **Markar SR**. Per-Oral Endoscopic Myotomy (POEM): 'NOTES' on an alternative therapeutic strategy for the management of achalasia. Association of Laparoscopic Surgeons for Great Britain and Ireland (ALSGBI) newsletter 2012.
- 2) **Markar SR**, Gan I, Low DE. Esophageal stents to supplement nutritional status during neoadjuvant chemoradiotherapy. Boston Scientific newsletter 2012.

## **PRESENTATIONS**

### **International/National Oral Presentations:**

- 1) Breath volatile organic compound analysis for the diagnosis of Oesophago-Gastric cancer; Multi-centre blinded validation clinical trial  
**European Cancer Congress (ECCO) 2017**
- 2) National cohort study of emergency presentation of esophageal cancer: predictors and long-term prognosis  
**European Society of Diseases of Esophagus (ESDE) 2016**
- 3) Clinical T2N0 Esophageal Cancer – Surgery debate  
**European Society of Diseases of Esophagus (ESDE) 2016**
- 4) Influence of national centralization of esophageal cancer upon the mortality from other emergency esophageal conditions  
**International Society of Diseases of the Esophagus (ISDE) 2016**
- 5) University hospital status and prognosis following surgery for esophageal cancer  
**International Society of Diseases of the Esophagus (ISDE) 2016**
- 6) Extent of lymph node harvest and survival from esophagectomy: systematic review and meta-analysis  
**International Society of Diseases of the Esophagus (ISDE) 2016**
- 7) Surgically treated esophageal cancer developed in a radiated field: impact on peri-operative and long-term outcomes  
**International Society of Diseases of the Esophagus (ISDE) 2016**
- 8) Multimodality treatment for esophageal adenocarcinoma: multi-center European comparative study  
**International Society of Diseases of the Esophagus (ISDE) 2016**
- 9) Effect of failure to complete therapy on survival after neoadjuvant chemotherapy or chemoradiotherapy for resectable esophageal cancer.  
**International Society of Diseases of the Esophagus (ISDE) 2016**
- 10) An international comparison of emergency cholecystectomy for acute cholecystitis.  
**European Association of Endoscopic Surgery (EAES) 2016**
- 11) National study of the influence of procedural volume and proficiency gain on mortality from upper gastrointestinal endoscopic mucosal resection  
**European Association of Endoscopic Surgery (EAES) 2016**
- 12) A national matched comparison of survival in laparoscopic right hemicolectomy with other laparoscopic resections.  
**European Association of Endoscopic Surgery (EAES) 2016**
- 13) Practice patterns and outcomes following hospital admission with acute para-esophageal hernia in England.  
**European Surgical Association (ESA) 2016**
- 14) Multi-centre blind validation diagnostic study of non-invasive exhaled breath analysis for the prediction of oesophago-gastric cancer  
**Society for Academic Research Surgery (SARS) 2016**
- 15) Impact of gain of surgical proficiency upon short- and long-term outcomes following oesophagectomy for cancer.  
**Society for Academic Research Surgery (SARS) 2016**

- 16) Feasibility study of exhaled breath profiling in patients with Barrett's oesophagus  
**Society for Academic Research Surgery (SARS) 2016**
- 17) Impact of gain of surgical proficiency upon short- and long-term outcomes following oesophagectomy for cancer.  
**European Society for Diseases of the Esophagus (ESDE) 2015**
- 18) Practice patterns and outcomes following hospital admission with acute para-oesophageal hernia.  
**European Society for Diseases of the Esophagus (ESDE) 2015**
- 19) The influence of procedural volume on mortality from upper gastrointestinal endoscopic mucosal resection  
**European Society for Diseases of the Esophagus (ESDE) 2015**
- 20) Role of neoadjuvant treatment in clinical T2N0M0 esophageal cancer: results from a multi-center European study.  
**European Society for Diseases of the Esophagus (ESDE) 2015**
- 21) Nutritional optimization during neoadjuvant therapy prior to esophagectomy for cancer (NONEC) proposal.  
**European Society for Diseases of the Esophagus (ESDE) 2015**
- 22) Management and outcomes of oesophageal perforation: a national study of 2564 patients in England.  
**Digestive Disorders Federation (DDF) 2015**
- 23) Breath profiling of colorectal cancer using selected ion flow-tube mass spectrometry.  
**John of Arderne Medal presentation session, Royal Society of Medicine (RSM) Coloproctology section 2015**
- 24) The Impact of severe anastomotic leak on long-term survival and cancer recurrence following surgical resection for esophageal malignancy.  
**ESDE trainee award prize session**  
**European Society for Diseases of the Esophagus (ESDE) 2014**
- 25) The national proficiency gain curve in England for minimally invasive esophagectomy.  
**ESDE trainee award prize session**  
**European Society for Diseases of the Esophagus (ESDE) 2014**
- 26) Does omentoplasty reduce anastomotic leak following esophagectomy? – Meta-analysis  
**European Society for Diseases of the Esophagus (ESDE) 2014**
- 27) Is it time to centralize high-risk cancer care in the United States? Comparison of outcomes of esophagectomy between England and the United States.  
**International Society for Diseases of the Esophagus (ISDE) 2014**
- 28) The impact of anastomotic leak on long-term survival and cancer recurrence following surgical resection for oesophageal malignancy  
**British Journal of Surgery award prize session**  
**Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) 2014**
- 29) Laparoscopic approach to appendectomy reduces the incidence of short and long-term postoperative bowel obstruction  
**Karl Storz award prize session**

- World Congress of Endoscopic Surgery (WCES) 2014**
- 30) Single-incision laparoscopic surgery (SILS) vs. conventional multiport cholecystectomy
- Surgical endoscopy festival**
- World Congress of Endoscopic Surgery (WCES) 2014**
- 31) Survey study to define the assessment of clinical outcome parameters following Laparoscopic Colorectal surgery
- World Congress of Endoscopic Surgery (WCES) 2014**
- 32) The Implementation and Evolution of Standardized Clinical Pathways can accelerate improvement in Perioperative Outcomes following Surgical treatment of Esophageal Cancer.
- European Society for Diseases of Esophagus (ESDE) 2013**
- 33) Assessment of Short-term Clinical Outcomes following Salvage Esophagectomy for the treatment of Esophageal malignancy.
- European Society for Diseases of Esophagus (ESDE) 2013**
- 34) The Implementation and Evolution of Standardised Clinical Pathways can accelerate improvement in Perioperative Outcomes following Surgical treatment of Oesophageal Cancer.
- Glaxo Traveling Fellowship Prize presentation, Royal Society of Medicine (RSM) Surgical Section 2013**
- 35) International comparison of oesophageal cancer surgery in the United States and England.
- Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) 2013**
- 36) Management of Acute Appendicitis: A Lesson in Cost-Effective Healthcare from the Third World.
- Association of Surgeons of Great Britain and Ireland (ASGBI) 2013**
- 37) Long-term survival following Gastrectomy for cancer in randomized controlled oncological trials: comparison between West and East.
- Society for Academic Research Surgery (SARS) 2013**
- 38) The Impact of Extremes of Age on Short and Long-term Outcomes following Surgical Resection of Esophageal malignancy
- Canadian Association of Thoracic Surgeons (CATS) 2012**
- 39) Iron-deficiency anemia is a common presenting issue with Giant Paraesophageal hernia and resolves following repair
- Canadian Association of Thoracic Surgeons (CATS) 2012**
- 40) The Impact of Neoadjuvant chemoradiotherapy on Tumor pathology, Perioperative outcomes and Survival in Stage II and III Esophageal Cancer
- Western Thoracic Surgical Association (WTSA) 2012**
- 41) Total Endoscopic Excision of Giant Esophageal Bilobed Submucosal Liposarcoma of the Cricopharynx.
- European Association of Endoscopic Surgery (EAES) 2012 – Video Prize session**
- 42) Iron-deficiency anemia is a common presenting issue with Giant Paraesophageal hernia and resolves following repair
- Digestive Disorders Federation (DDF; AUGIS) 2012**

- 43) Translocation of Multidisciplinary Standardised Clinical Pathways between Hospitals and Health Systems is feasible and can produce immediate improvement in Perioperative outcomes of Surgical treatment of Oesophageal cancer  
**Digestive Disorders Federation (DDF; AUGIS) 2012**
- 44) Iron-deficiency anemia is a common presenting issue with Giant Paraesophageal hernia and resolves following repair  
**Digestive Disease Week (DDW) 2012**
- 45) Total Endoscopic Excision of Giant Esophageal Bilobed Submucosal Liposarcoma of the Cricopharynx.  
**Digestive Disease Week (DDW) 2012 – World cup of Endoscopy**
- 46) Adolescent Bariatric Surgery – Thoughts and Perspectives from the UK  
**British Obesity & Metabolic Surgery Society (BOMSS) 2012**
- 47) Should all Sleeve Gastrectomy patients receive Vitamin D supplementation?  
**British Obesity & Metabolic Surgery Society (BOMSS) 2012**
- 48) Video of Endoscopic Resection of Giant Liposarcoma of the Cricopharynx  
**British Oesophageal Group (BOG) 2012**
- 49) Differing aspects of Presentation and Outcome Related to Age at the time of Presentation for Esophageal cancer  
**British Oesophageal Group (BOG) 2012**
- 50) The anatomical knowledge of healthcare professionals referring patients to a hand trauma referral centre.  
**British Association of Clinical Anatomists 2011**
- 51) Changes in the management of Acute appendicitis over a decade and their influence upon clinical outcome  
**European Society for Surgical Research (ESSR) 2011**
- 52) Transfusion Drains versus Suction Drains in Total Knee Replacement: A Meta-analysis  
**European Society for Surgical Research (ESSR) 2011**
- 53) Increased use of US, CT and laparoscopic has no impact on clinical outcomes in patients undergoing appendectomy  
**Association of Surgeons for Great Britain and Ireland (ASGBI) 2011**
- 54) The role of integrated FDG-PET/CT scanning in the detection of M1 disease in Esophageal Adenocarcinoma and impact on clinical management  
**Association of Surgeons for Great Britain and Ireland (ASGBI) 2011**
- 55) A Comparison of the effect of different surgical gloves on objective measurement of fingertip cutaneous sensibility  
**Association of Surgeons in Training (ASIT) 2011**
- 56) Robotic versus Laparoscopic Nissen Fundoplication  
**Minimally Invasive Robotic Association (MIRA) San Diego USA 2010**

**International/National Poster Presentations:**

- 1) Clinical outcomes from acute para-esophageal hernia repair: systematic review and meta-analysis  
**European Society for Diseases of the Esophagus (ESDE) 2015**
- 2) The psychiatric impact of symptoms related to esophago-gastric cancer resection presenting in the primary care: a linked database study.

- European Society for Diseases of the Esophagus (ESDE) 2015**
- 3) Laparoscopic repair of hiatus hernia: a survey study of surgeon practice.
- European Society for Diseases of the Esophagus (ESDE) 2015**
- 4) The influence of Gastric Cancer Screening upon stage at diagnosis and survival.
- Digestive Disorders Federation (DDF) 2015**
- 5) Salvage surgery following chemoradiotherapy in management of esophageal cancer: Is it a viable therapeutic option? Results of a multicentre European study.
- Gastro-Intestinal American Society for Clinical Oncology (GI-ASCO 2015)**
- 6) Non-invasive volatile organic compound analysis from exhaled breath for the diagnosis of gastroesophageal cancer.
- Gastro-Intestinal American Society for Clinical Oncology (GI-ASCO 2015)**
- 7) Pancreatic insufficiency following esophagectomy increases postoperative weight loss.
- European Society for Diseases of the Esophagus (ESDE) 2014**
- 8) Laparoscopic repair of hiatus hernia: does mesh type influence outcome – meta-analysis.
- European Society for Diseases of the Esophagus (ESDE) 2014**
- 9) Pattern of postoperative mortality after esophageal cancer resection according to center volume: results from a large European multi-center study.
- European Society for Diseases of the Esophagus (ESDE) 2014**
- 10) Is it time to centralize high-risk cancer care in the United States? Comparison of outcomes of Esophagectomy between England and the United States.
- British Association of Surgical Oncology (BASO) 2014**
- 11) Laparoscopic versus Open Surgery for General Surgical Emergencies in Obese patients: Systematic review.
- Association of Surgeons in Training (ASIT) 2014**
- 12) Surgical myotomy should be considered as primary treatment in elderly patients with achalasia
- Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) 2013**
- 13) Surgical myotomy should be considered as primary treatment in elderly patients with achalasia
- Digestive Disease Week (DDW) 2013**
- 14) The Impact of Extremes of Age on Short- and Long-Term Outcomes Following Surgical Resection of Oesophageal Malignancy.
- British Association of Surgical Oncology (BASO) 2012**
- 15) The Implementation, Evolution and Translocation of Standardised Clinical Pathways (SCP) can improve perioperative outcomes following Surgical Treatment of Oesophageal cancer
- British Association of Surgical Oncology (BASO) 2012**
- 16) Neoadjuvant Chemoradiotherapy (NCR) can adversely impact Nutritional status leading to Weight loss and increased Complications following Surgical resection of Esophageal Cancer.
- International Society for Diseases of the Esophagus (ISDE) 2012**

- 17) Translocation of Multidisciplinary Standardised Clinical Pathways (MSCP) between Hospitals and Health systems is feasible and can produce immediate improvement in Perioperative Outcomes following Esophagectomy.  
**International Society for Diseases of the Esophagus (ISDE) 2012**
- 18) Physiology not Chronology dictates Outcomes following Esophagectomy for Esophageal Cancer: Outcomes in Patients 80 years or older  
**International Society for Diseases of the Esophagus (ISDE) 2012**
- 19) A Comparative Analysis of the Management and Outcomes of Acute Appendicitis in Sri Lanka and the United Kingdom  
**Sri Lanka College of Surgeons Annual Meeting 2012**
- 20) The Clinical and Economic Cost of Delirium following surgical resection for Oesophageal malignancy  
**Digestive Disorders Federation (DDF; AUGIS) 2012**
- 21) Comprehensive assessment of Outcomes including Costs and Survival in Younger vs. Older patients undergoing Surgical management of Oesophageal cancer.  
**Digestive Disorders Federation (DDF; AUGIS) 2012**
- 22) The Clinical and Economic Cost of Delirium following surgical resection for Esophageal malignancy  
**Digestive Disease Week (DDW) 2012**
- 23) Improved Clinical Outcome associated with Laparoscopic Appendicectomy in the Elderly population  
**Association of Surgeons for Great Britain and Ireland (ASGBI) 2012**
- 24) A systematic review and meta-analysis of endovascular versus open surgery for chronic mesenteric ischaemia  
**Association of Surgeons for Great Britain and Ireland (ASGBI) 2012**
- 25) Plastic surgery & Tourism; complications presenting to an NHS hospital – a one year retrospective study  
**Association of Surgeons in Training (ASIT) 2012**
- 26) The Anatomical knowledge of healthcare professionals referring to a hand trauma centre  
**Association of Surgeons in Training (ASIT) 2012**
- 27) Vitamin D deficiency in obese patients in the UK: diabetics versus non-diabetics  
**British Obesity & Metabolic Surgery Society (BOMSS) 2012**
- 28) Does a formal anatomy teaching programme improve anatomical knowledge in core surgical trainees – a nationwide study.  
**British Association of Clinical Anatomists 2011**
- 29) Can serum albumin be used as a prognostic indicator for mortality in acute burns over fifteen percent total body surface area  
**European Tissue Repair Society 2011**
- 30) Assessing the knowledge base of U.K trained junior doctors regarding simple wound management  
**European Tissue Repair Society 2011**
- 31) Can serum albumin be used as a prognostic indicator for mortality in acute burns over fifteen percent total body surface area  
**European Burns Association (EBA) 2011**

- 32) A case of Lamotrigine induced Epidermal Necrolysis with a review of the current literature  
**European Burns Association (EBA) 2011**
- 33) The Influence of Circular Stapler Diameter on Post-operative outcome following Laparoscopic Gastro-Jejunal anastomosis in Morbid obesity: Meta-analysis  
**American Society for Metabolic & Bariatric Surgery (ASMBS) 2011**
- 34) Linear versus Circular Stapled Laparoscopic Gastro-Jejunal anastomosis in Morbid Obesity: Meta-analysis.  
**American Society for Metabolic & Bariatric Surgery (ASMBS) 2011**
- 35) An International Survey to examine attitudes towards Robotic Surgery  
**Minimally Invasive Robotic Association (MIRA) 2011**
- 36) Robotic versus Laparoscopic Roux-En-Y Gastric bypass: Meta-analysis  
**Minimally Invasive Robotic Association (MIRA) 2011**
- 37) Diagnostic Value of Pre-operative Investigations in Acute Appendicitis  
**Association of Surgeons in Training (ASIT) 2011.**
- 38) Laparoscopic Nissen Fundoplication with or without Short Gastric Vessel division; Systematic review and Meta-analysis.  
**Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) 2010.**
- 39) Hand-sewn versus Stapled Oesophago-gastric anastomosis; Systematic review and Meta-Analysis.  
**Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) 2010.**
- 40) Comparison of outcomes of surgical jejunostomies and radiologically placed gastrojejunostomy tubes. Hassett S, Markar S, Curry J. Great Ormond Street Hospital.  
**British Association of Paediatric Surgeons (BAPS) 2010.**
- 41) Ninety-nine D2 gastrectomies: safe to proceed.  
**Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) 2008**

**Regional Oral Presentations:**

- 1) Breath analysis for Oesophago-gastric adenocarcinoma  
**East Anglian Surgical Club prize presentation 2015**
- 2) The impact of anastomotic leak on long-term survival and cancer recurrence following surgical resection for oesophageal malignancy  
**East Anglian Surgical Club prize presentation 2014**
- 3) Survey Study to Define the Assessment of Clinical Outcome Parameters following Laparoscopic Colorectal Surgery  
**East Anglian Chapter, Association of Coloproctology for Great Britain and Ireland 2014**
- 4) Enhanced recovery in Upper Gastro-intestinal surgery  
**East of England Surgical Teaching 2014**
- 5) The clinical cost of Delirium following Esophagectomy  
**Seattle Surgical Society Annual Meeting 2012**

- 6) Total Endoscopic Excision of Giant Esophageal Bilobed Submucosal Liposarcoma of the Cricopharyngeus  
**Seattle Surgical Society Annual Meeting 2012**
- 7) Laparoscopic versus Open Pyeloplasty. Paediatric Urology department meeting  
**Great Ormond Street Hospital 2009**
- 8) Appendicitis and its complications  
**Hinchingbrooke Hospital 2007**
- 9) Legionella pneumonia  
**Hinchingbrooke Hospital 2007**
- 10) Intestinal Malrotation  
**Yale University USA 2006**

### **BOOK CHAPTERS**

- 1) **Markar SR**, Zaninotto G. Cardiomyotomy for Esophageal Achalasia. Operative Thoracic Surgery 6<sup>th</sup> edition.
- 2) **Markar SR**, Penna M, Hashemi M. Robotic Bariatric Surgery. Hospital Healthcare Europe 1<sup>st</sup> edition
- 3) **Markar SR**, Helman J, Low DE. Preoperative assessment and perioperative management in oesophageal and gastric surgery. A companion to Specialist Surgical Practice Oesophagogastric Surgery 5<sup>th</sup> edition
- 4) **Markar SR**, Low DE. The management of Achalasia of the Esophagus. Current Surgical Therapy 11<sup>th</sup> edition
- 5) **Markar SR**, Low DE. Rare Malignancies of the Esophagus. European Society of Thoracic Surgery textbook 1<sup>st</sup> edition – in press
- 6) **Markar SR**, Low DE. Advances in Surgical Therapy for Esophageal Cancer. Minimally Invasive Foregut Surgery for Malignancy: Principles and Practice 1<sup>st</sup> edition– in press

### **RESEARCH SUPERVISION**

#### **BSc students (co-supervisor):**

- 1) Kimberly Welsh (Imperial College): Feasibility study of exhaled breath profiling in patients with Barrett’s oesophagus (2015).
- 2) Bellamy Brodie (Imperial College): Volatile organic compound analysis for pancreatic cancer diagnosis (2016).
- 3) Matthew Wood (Imperial College): Breath profiling of metabolic changes following Bariatric Surgery (2016).

#### **Academic Foundation (co-supervisor):**

- 1) Amish Acharya (Imperial College): Feasibility study of volatile organic compound profiling acute appendicitis in exhaled breath (2015).

### **AUDITS**

- 1) Acharya A, **Markar S**, Wiggins H, Wiggins T, Huddy J, Hanna GB. Audit of HIV testing of Surgical admissions. St Mary’s Hospital May 2015.

- 2) Nadler R, **Markar S**, Gergely S. Re-audit of waiting list time for cholecystectomy following gallstone pancreatitis against BSG guidelines. Hinchingsbrooke Hospital February 2013
- 3) Ho A, Mulluam G, **Markar S**, Devalia K. Audit of waiting list time for cholecystectomy following gallstone pancreatitis against BSG guidelines. Kingston Hospital, London June 2011.
- 4) **Markar SR**, Venkat Ramen V, Lee M. Audit of Shoulder Hemiarthroplasty against NICE guidelines. University College Hospital, London September 2010.
- 5) Hassett S, **Markar S**, Curry J. Comparison of outcomes of surgical jejunostomies and radiologically placed gastrojejunostomy tubes. Great Ormond Street Hospital. January 2010
- 6) D2 Gastrectomy audit. Upper GI surgery dept Addenbrooke's hospital. Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS) meeting October 2008
- 7) Medical Note Keeping Audit - Crabel's Score. General Surgery dept Addenbrooke's Hospital Cambridge. Presented February 2008. Re-audited April 2008.
- 8) Blood transfusion in the emergency laparotomy – presented at Hinchingsbrooke Hospital August 2007

### **SOCIETY MEMBERSHIP**

1. Royal College of Surgeons of England (MRCS)
2. European Society for Surgical Oncology (ESSO)
3. Society for Surgery of the Alimentary tract (SSAT)
4. Association of Upper Gastro-Intestinal Surgeons of Great Britain and Ireland (AUGIS)
5. Surgical Oncology Trainee Association (SOTA)
6. International Society for Diseases of the Esophagus (ISDE)
7. European Association of Endoscopic Surgery (EAES)
8. European Society of Medical Oncology (ESMO)

### **COURSES ATTENDED**

2016	Study design and clinical research, Karolinska Institutet
2016	Pathways to Independence – future leaders in cancer research
2016	Basic Course in Medical Statistics, Karolinska Institutet
2016	Writing research for publication, Karolinska Institutet
2016	NIHR Diagnostic Evidence Workshop, Oxford
2016	Multimodality treatment for esophageal cancer, Utrecht.
2016	Introduction to minimally invasive esophagectomy, AMC
2016	Introduction to design & analysis of clinical trials
2015	CRUK Early Diagnosis Innovation Workshop
2015	“Tomorrow's Leaders”: Clinical Trials in Surgical Oncology
2015	Introduction to Health Economics, Oxford University
2015	ATLS recertification
2015	Good Clinical Practice (GCP) research
2014	BASO training day

2013	AUGIS training day
2013	Nutrition and Enhanced recovery in Gastrointestinal surgery
2012	MATTU Oesophago-gastric cancer symposium
2012	Cambridge Trauma symposium
2012	East of England ST3 – 4 simulation Training day
2011	MATTU Oesophago-gastric cancer symposium
2011	Specialist Registrar Skills Course in General Surgery
2011	Training the Trainers course
2010	Advanced Trauma Life Support (ATLS)
2010	Basic Endoscopic Skills Course
2009	Orientation in Animal Research
2009	Advanced Life Support (ALS)
2008	Core Skills in Laparoscopic Surgery
2008	Care of the Critically Ill Surgical Patient (CrISP)
2008	Basic Surgical Skills
2007	ALERT
2006	Intermediate Life Support (ILS)

### **CONFERENCES ATTENDED**

2016	European Society for Diseases of the Esophagus, Munich, Germany
2016	International Society for Diseases of the Esophagus, Singapore
2016	European Association of Endoscopic Surgery, Amsterdam, Netherlands
2016	European Surgical Association, Edinburgh, United Kingdom
2016	Society for Academic Research Surgery, London, United Kingdom
2015	European Society for Diseases of the Esophagus, Stockholm, Sweden
2015	CRUK International symposium on Oesophageal cancer, Oxford, UK
2015	Royal Society of Medicine (RSM), Coloproctology Section, Cambridge, UK
2015	Gastro-Intestinal American Society of Clinical Oncology, San Francisco, USA
2014	European Society for Diseases of the Esophagus, Bologna, Italy
2014	International Society for Diseases of the Esophagus, Vancouver Canada
2014	Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS), Brighton, UK
2014	World Congress of Endoscopic Surgery, Paris, France
2014	British Association of Surgical Oncology, Cardiff, UK
2013	European Society for Diseases of the Esophagus, Rotterdam, Netherlands
2013	Royal Society of Medicine (RSM), Surgical Section, London, UK
2013	Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS), Newcastle, UK

2013 Association of Surgeons of Great Britain and Ireland (ASGBI), Glasgow, UK

2013 Society for Academic Research Surgery, London, UK

2012 British Association of Surgical Oncology, London, UK

2012 International Society for Diseases of the Esophagus, Venice, Italy

2012 London Surgical Symposium, Imperial College London, UK

2012 Sri Lanka College of Surgeons Annual meeting, Colombo, Sri Lanka

2012 Western Thoracic Surgical Association, Hawaii, USA

2012 European Association of Endoscopic Surgery (EAES), Brussels, Belgium

2012 Digestive Disorders Federation (DDF; AUGIS), Liverpool, UK

2012 Digestive Disease Week, San Diego, USA

2012 Seattle Surgical Society Annual meeting, Seattle, USA

2011 European Society for Surgical Research (ESSR), Aachen, Germany

2011 Association of Surgeons of Great Britain and Ireland (ASBGI), Bournemouth, UK

2011 American Society of Metabolic and Bariatric Surgery (ASMBS), Florida, USA

2010 Minimally Invasive Robotic Association (MIRA), San Diego, USA

2010 Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS), Oxford, UK

2010 British Association of Paediatric Surgeons (BAPS), Aberdeen

2008 Association of Upper Gastrointestinal Surgeons for Great Britain and Ireland (AUGIS), Liverpool, UK

## **REFEREES**

- Professor George Hanna – Professor of Surgery, Division of Surgery, Department of Surgery & Cancer, St Mary's Hospital, London, UK  
[g.hanna@imperial.ac.uk](mailto:g.hanna@imperial.ac.uk)
- Professor Jesper Lagergren – Professor of Surgery, Department of Molecular Medicine & Surgery, Karolinska institutet, Stockholm, Sweden  
[Jesper.lagergren@ki.se](mailto:Jesper.lagergren@ki.se)
- Professor Christophe Mariette – Head of Department of Digestive and Oncological Surgery, University Hospital Claude Huriez, Lille, France  
[Christophe.mariette@chru-lille.fr](mailto:Christophe.mariette@chru-lille.fr)
- Dr Donald E Low – Head of Thoracic Surgery, Virginia Mason Medical Center, Seattle, USA.  
[Donald.low@vmmc.org](mailto:Donald.low@vmmc.org)