

# **Curriculum Vitae**

**Mr. Alireza S. Keshtgar**  
**PhD, BSc, MB BS, FRCSI, FRCS (Paed Surg)**  
**Consultant Neonatal & Paediatric Colorectal Surgeon**  
**Honorary Senior Lecturer**

Evelina London Children's Hospital  
Guy's & St Thomas' NHS Foundation Trust  
King's College, University of London

&

**Honorary Professor of Paediatric Surgery**  
Shiraz University of Medical Sciences

October 2023

## Personal Details

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## Qualifications

**BSc** 12/07/1984  
University of the Punjab,  
Lahore

**MB BS** 30/09/1986  
King Edward Medical University,  
Lahore

**FRCSI** 06/07/1992  
Royal College of Surgeons in Ireland

**FRCS (Paed)** 30/09/1999  
Intercollegiate Speciality Board in Paediatric Surgery,  
Royal College of Surgeons in Edinburgh,  
United Kingdom

**Postgraduate Certificate in  
Health Research and  
Development** 25/06/1999  
University of Portsmouth  
School of Postgraduate Medicine, Portsmouth

**PhD degree** 01/05/2009  
King's College, University of London

**Honorary Professor of  
Paediatric Surgery** 25/10/2015  
Awarded by Shiraz University of Medical Sciences,  
Iran

## Registration and Membership of Professional Bodies

**General Medical Council** Registration No. 4479712

**Entry in Specialist Register of General Medical Council** 14/09/2004

**Medical Protection Society** Membership No. 177768

**British Medical Association** Membership No. 7019284

**British Association of Paediatric Surgeons (BAPS)** Member since 1997

**British Association of Paediatric Endoscopic Surgeons (BAPES)** Member since 2006

## Consultant Appointment

<b>Dates</b>	<b>Grade / Speciality</b>	<b>Hospital</b>
<b>01/09/2010 to date</b>	Consultant Paediatric Surgeon	Evelina London Children's Hospital, Guy's & St Thomas' NHS Foundation Trust
<b>04/10/2004 to 31/08/2010</b>	Consultant Paediatric Surgeon	University Hospital, Lewisham, NHS Trust, London

## Previous Appointments And Trainings

<b>01/10/2003-03/10/2004</b>	Specialist Registrar in Paediatric Surgery	Great Ormond Street Hospital for Children, NHS Foundation Trust, London
<b>02/04/2003-30/09/2003</b>	Specialist Registrar in Paediatric Surgery	University Hospital Lewisham, NHS Trust, London
<b>01/10/2000-01/04/2003</b>	Clinical Research Fellow Paediatric Surgery	Guy's and St Thomas' NHS Foundation Trust, London

<b>01/10/2000-01/04/2003</b>	Specialist Registrar (on call) Paediatric Surgery	St George's Hospital NHS Trust, London
<b>01/10/1999-30/09/2000</b>	Clinical Fellow Paediatric Surgery	University Hospital Lewisham, NHS Trust, London
<b>04/08/1997 – 03/08/1999</b>	Specialist Registrar in Paediatric Surgery	Southampton University Hospital, NHS Trust, Southampton
<b>10/10/1994- 31/07/1997</b>	Specialist Registrar in Paediatric Surgery	Alder Hey Children's NHS Foundation Trust, Liverpool
<b>01/07/93 – 30/09/94</b>	Registrar in Paediatric Surgery	The Children's Hospital Temple Street, Dublin

## **Summary of Experience as a Consultant Paediatric Surgeon**

**Evelina London Children's Hospital, Guy's & St Thomas' NHS Foundation Trust, London from 01/09/2010 to date and University Hospital, Lewisham NHS Trust, London from 04/10/2004 to 31/08/2010**

I have been a full time Consultant Neonatal and Paediatric Surgeon at Evelina London Children's Hospital, Guy's and St Thomas' NHS Foundation Trust and University Hospital Lewisham, NHS Trust since October 2004. The paediatric surgery services were based at University Hospital Lewisham and then transferred to Evelina London Children's Hospital in September 2010, where acute emergency and elective complex paediatric and neonatal surgeries are performed. I provide acute emergency and elective complex services along with 7 other consultant colleagues.

My practice includes neonatal and paediatric general and colorectal surgery and minimally invasive laparoscopic surgery. I have on average two all day elective theatre sessions including some Saturdays and two all day outpatient clinic sessions, one face to face and one virtual at Evelina Children's Hospital every month. I have two all day theatre sessions and one all day and one half day outpatient clinic sessions at University Hospital Lewisham every month. This includes one specialised colorectal clinic in each Hospital every month. I have two outreach clinics alternating every month between William Harvey Hospital in Ashford and Maidstone Hospital.

The Evelina is a major Regional Specialist Hospital in London taking referrals from a population of approximately 3 million in South East England.

I have the following expertise and experiences and leading role:

**Expertise in anorectal manometry and endosonography and surgical treatments of colorectal disorders in children.** I have developed a special interest in anorectal manometry, biofeedback training, endosonography and treatment of Hirschsprung disease, anorectal malformations, chronic functional constipation and faecal incontinence. My colorectal referrals come from a wide network of national and international sources.

I have wide experience in lower and upper gastrointestinal surgery and minimally invasive surgery. This includes percutaneous endoscopic insertion of feeding gastrostomy and jejunostomy, antegrade continent enema (ACE) stoma, appendicectomy, staged Fowler Stephen's orchidopexy, inguinal herniotomy and ovarian pathologies.

I successfully secured funding to purchase state of art 3D high resolution anorectal manometry system and 3D endosonography scanner in 2017. I have established a wide network of national and international paediatric colorectal surgical referrals from across the United Kingdom and overseas.

**Lead Surgeon for Transition of Adolescent Care Service**

I have led setting up the new service of 'Transition of Adolescent Care Service' in collaboration with adult colorectal surgical colleagues at St Thomas' Hospital since November 2020. We have evidence of provision of a high quality and uninterrupted, coordinated care, which is developmentally and psychosocially appropriate for the young adolescents through a process of preparation rather than one of transfer. The feedback from parents and patients have been very positive.

**Pioneered new treatment of botulinum toxin injection and innovative transcutaneous needle-free injection of the toxin into external anal sphincter** for chronic idiopathic constipation and anal fissure in children. This was the result of my double blind randomised controlled research trials and my PhD thesis at King's College London, which is used worldwide.

**Extensive experience in surgical treatment of major neonatal disorders** including necrotising enterocolitis, Hirschsprung disease, anorectal malformations, repair of oesophageal atresia and tracheoesophageal fistula, diaphragmatic hernias, intestinal atresia, exomphalos, gastroschisis and repair of intestinal malrotations and volvulus. I implemented the bedside sutureless closure of gastroschisis following insertion of a preformed silo in our department.

**Lead author of Neonatal Surgical Guidelines in neonatal intensive care unit at St Thomas' Hospital.** I have led drawing neonatal surgical guidelines, which have been adopted by Clinical Governance Committee for management of necrotising enterocolitis, oesophageal atresia and tracheoesophageal fistula, diaphragmatic hernia, Hirschsprung disease, anorectal malformations, gastroschisis, exomphalos, bile stained vomiting, rectal suction biopsy and rectal wash out.

**Innovative service of awake anorectal manometry and biofeedback training and endosonography in our department.** I commenced this service, which obviated the need for ketamine anaesthesia and improved theatre utilisation for surgical procedures. The awake studies provided more information about rectal sensory and pelvic floor defecation dynamic disorders.

**Multidisciplinary team collaboration with our neonatologists, gastroenterologists, urologists, cardiologists, community paediatricians and clinical nurse specialists.** This has been essential to deliver a high quality service based on multidisciplinary team (MDT) input for management of patients with complex medical and surgical disorders.

I fully recognise the importance of good working and professional relationship with surgical and medical colleagues, nursing staff, secretaries, patients and their family.

## **Honorary Professor of Paediatric Surgery, Shiraz University of Medical Sciences**

I was awarded 'Honorary Professor of the Shiraz University of Medical Sciences' in recognition of my contribution to academic education and exceptional commitment to the field of medicine and valuable experience in practice and advancement of medical sciences on 25<sup>th</sup> October 2015.

## **Honorary Senior Lecturer King's College, University of London**

I have been awarded the title of Honorary Senior Lecturer in recognition of my research and undergraduate and postgraduate teachings and trainings from King's College, University of London on 1<sup>st</sup> November 2012.

My research work is recognised nationally and internationally and has led to numerous publications in international peer reviewed Journals and presentations in international conferences. My research work has provided evidence for the first time, based on double blind randomised control trials for investigations and surgical treatment of chronic idiopathic constipation and faecal incontinence in children.

## **Honorary Teacher of King's College, University of London**

I was given the title of 'Honorary Teacher of the College' in recognition of my undergraduate teachings to Medical Students at King's College, London in July 2009.

### **Undergraduate Teaching**

I have been an Educational supervisor of 4<sup>th</sup> and 5<sup>th</sup> year medical students for their clinical placements in Acute Care, General Practice, Emergency Medicine and Critical Care, Mental Health, Women's Health, Child Health and Career Development since 2018.

I have supervised 4<sup>th</sup> year medical students for their SSC rotation (MUS4069 Neonatal Surgery) and 5<sup>th</sup> Year students for their Career SSC, during a 4 week block from January 2013 to June 2016. I have been an Examiner for Year 4 Formative Objective Structured Clinical Examinations (OSCE) at King's College, London since 12/03/2018.

I have supervised external medical students for their 'Elective Placement' through King's College, London from other countries including, Australia, France, Germany, Italy, Portugal, Greece and Hong Kong from 2015 to date.

The feedback from medical students have been very positive and they have contributed to numerous quality improvement projects and audits, presented in peer reviewed international conferences and published in recognised journals, please see below.

### **Postgraduate Teaching**

I am actively involved in regular formal teaching and training of specialist registrars, junior doctors and nursing staff in our department. This has been in the form of lectures to GPs and to postgraduate trainees on Deanery Regional Study Day about common paediatric surgical problems.

### **Medicolegal Experience**

I have been an expert witness to provide medico-legal report since 2008. I have kept up to date by attending the medicolegal training courses listed under section of continuous medical education. I undertake approximately 15 cases annually. I have prepared joint medical reports and attended as an expert in four court hearings.

### **Audit Lead**

I was the Audit lead for Paediatric Surgery from 2004 to 2018. I have led 17 audits, of which 12 have been published in peer reviewed journals & all presented in international peer reviewed conferences.

### **Grants**

I have led service improvement initiatives and successfully obtained grant of £120,000 to upgrade the anorectal manometry and endosonography systems and set up the new services of oesophageal & colonic manometry in collaboration with gastroenterologist colleagues at Evelina Children's Hospital in 2017.

I also obtained £5,000 grants from the Evelina Charitable Trust for clinical research and updating the computer system of anorectal manometry equipments at Guy's Hospital in 2002.

### **Member of Intercollegiate Speciality Board of Examiners in Paediatric Surgery**

I have been a member of the Intercollegiate Speciality Board of Examiners of Royal Colleges of Surgeons of Great Britain and Ireland in written and oral section of 'Exit Specialty Examination' in paediatric surgery since June 2017.

### **Chief organiser of International Anorectal manometry and Endosonography Training Course and Workshop in United Kingdom and overseas**

I have been the chief organiser and trainer of the 1<sup>st</sup> and 2<sup>nd</sup> International Anorectal Manometry and Endosonography Training Course and Surgical Workshop in United Kingdom on 9<sup>th</sup> February 2012 and 21<sup>st</sup> and 22<sup>nd</sup> May 2014 and in Iran in November 2010 and 24<sup>th</sup> and 25<sup>th</sup> December 2015. Delegates attended were paediatric surgeons, paediatricians, gastroenterologists and clinical nurse specialists from United Kingdom, Europe, America and Asia. The feedback from delegates attending the courses was very positive and they expressed interests for future training courses.

### **Faculty of Minimally Invasive Laparoscopic Paediatric Surgery Training Course, Shiraz University of Medical Sciences, Iran, 24-25 November 2017**

The conference included four simultaneous sessions comprised of Asian endometriosis, colorectal, bariatric, and paediatric surgery. There were approximately 300 delegates of whom 50 had come from abroad.

The paediatric surgery sessions included lectures for fetal intervention and neonatal minimally invasive laparoscopic surgery. There was also a workshop for fetoscopy in sheep. The neonatal laparoscopy section included lectures through Skype, which were very good and innovative. There

was also a hand on training workshop of minimally invasive laparoscopic surgery in rabbits for training on neonatal operations. There were 16 delegates participating in the workshop.

The feedback from delegates was very positive. Participants were very pleased with the programme and expressed their interest for future training courses in Iran in collaboration with paediatric surgery centres in United Kingdom.

### **Faculty of Operative Skills in Neonatal & Paediatric Surgery Workshop, 22-23 April 2015**

I was a faculty member of above paediatric surgical training course organised by the Royal College of Surgeon in England.

### **Faculty of International Paediatric Endoscopic Workshop, Leeds Institute for Minimal Invasive Therapy, 14-17 July 2015**

I am a faculty member of above hands on laparoscopy training course organised by the Royal College of Surgeon in England.

### **Member of International Affairs Committee of the British Association of Paediatric Surgeons**

I am a member of the International Affairs Committee of the British Associations of Paediatric Surgeons (BAPS) since 2011. The committee facilitates award of scholarships and travelling fellowships to trainees and established paediatric surgeons from Africa, Asia and Middle East to attend BAPS conferences and observe paediatric surgery practice in United Kingdom. The committee also provides simulation skills training course in these countries.

### **Invited presentations and lectures**

1. I was invited as a Guest Speaker to discuss ‘Constipation and Faecal Incontinence in Children’ at 17th national Congress of Paediatric Common Diseases and Emergencies’ in Mofid Hospital, Tehran University of Medical Sciences on 17th December 2021 and 27 November 2022.
2. I was a Guest Speaker in national Webinar of ‘Surgical Management of Hirschsprung Disease in Shiraz University of Medical Sciences on 24th December 2021.
3. I was an invited guest Lecturer in Hands-on Workshop on Diagnostic and Operative Endoanal Ultrasonography to present two lectures on Endoanal Ultrasonography: use in Paediatrics and Chronic Constipation in Children: combined endosonographic and manometric approach at Sant’ Orsola-Malpighi University Hospital, 40138 Bologna, Italy on 29 October 2020.
4. Invited Speaker to talk on ‘Necrotising Enterocolitis and Spontaneous Intestinal Perforation’ at the 71<sup>st</sup> International Simpson Smith Symposium at UCL Institute of Child Health, London on 24<sup>th</sup> September 2019.



5. Transcutaneous needle-free Injection of botulinum toxin into the external anal sphincter: A novel treatment for chronic idiopathic constipation in children. Presented at Royal Liverpool Children Hospital Alder Hey, Liverpool on 1<sup>st</sup> April 2009.
6. Use of Botulinum toxin in treatment of childhood constipation. Presented at International Joint Paediatric Surgical and Medical Chronic Constipation Seminar, Margate, 8-9 November 2007 and at Barts and the Royal London Hospital, NHS Trust on 21<sup>st</sup> October 2008.
7. Investigations of anorectal manometry, endosonography and colonic transit study and Botulinum toxin treatment in childhood constipation. Presented at the International Joint Paediatric Surgical and Medical Chronic Constipation Seminar, Margate, 8-9 November 2007.
8. Common Elective and Acute Problems in the General Surgery of Childhood Course at the Royal College of Surgeons of England from November 2006 to November 2008.

## **Research Supervisor**

I was the supervisor for clinical research fellow in paediatric surgery from 2008 to 2010. I was the local co-investigator for multicentre randomised trial of interval appendicectomy in children (CHINA study) at Evelina Children Hospital, London in 2012.

## **Peer Review Activity**

I am a peer reviewer for the following Journals:

1. Journal of Pediatric Surgery.
2. British Medical Journal.
3. Journal of Pediatric Gastroenterology and Nutrition.
4. European Journal of Gastroenterology and Hepatology.
5. Biomed Central Gastroenterology
6. Pediatric International.
7. Clinical and Experimental Gastroenterology
8. Expert review of Gastroenterology and Hepatology

## **Research Activities**

### **Global PaedSurg Collaboration**

I have been a member of Global PaedSurg Collaboration team at King's College London. This was a multicentre, international, prospective cohort study to investigate mortality from gastrointestinal congenital anomalies at 264 hospitals in 74 Low-, Middle- and High-Income Countries, from October 2018 to April 2019, (Funder Reference: 203905/Z/16/Z). The study has been completed and published in Lancet in July 2021, please see publications.

### **PhD Degree Title: Investigations and Treatments of Overactive Internal Anal Sphincter in Chronic Idiopathic Constipation in Children**

I have successfully completed my above research work at Guy's and St Thomas' NHS Foundation

Trust between October 2000 and April 2003 and obtained a PhD degree from King's College, University of London on 01/05/2009.

During my research, I investigated role of the internal anal sphincter in chronic idiopathic constipation in children by anorectal manometry, anal endosonography and colonic transit study and evaluated the anal sphincter weakening procedures.

I was the principal investigator for two double blind randomised controlled trials of 'anal dilatation' versus 'no dilatation' and 'botulinum toxin' injection versus 'myectomy' of the internal anal sphincter for treatment of childhood idiopathic constipation, which were approved by Ethics Committee of Guy's and St Thomas' NHS Foundation Trust.

As a result of my research work, we have changed our practice and no longer perform invasive procedures of anal dilatation and myectomy of the internal anal sphincter for childhood constipation. We have introduced botulinum toxin as a new treatment modality in children with chronic constipation, which is use worldwide. My research works have been published and presented in peer reviewed international journals and conferences, please see peer reviewed publications and presentations.

## **2. Transcutaneous needle-free injection of botulinum toxin into the external anal sphincter: a novel treatment of childhood constipation and anal fissure**

I was the principal investigator for observational study of needle-free injection of botulinum toxin into the external anal sphincter muscles for treatment of chronic idiopathic constipation and anal fissure in children, which was approved by Ethics Committee of University Hospital Lewisham.

The needle-free technique is pain-free and more effective as botulinum toxin is delivered to wider muscle area and it can be given to awake children in outpatient setting without anaesthesia. This is beneficial for patients, timesaving for parents, and cost-effective for health care providers. There is also no risk of intravascular injection of the toxin or needle stick injury.

The study was published in Journal of Pediatric Surgery, J Pediatr Surg. 2009 Sep; 44(9): 1791-8.

## **Peer Reviewed Publications**

1. **Keshtgar AS**, Selim I. Role of 3D high resolution anorectal manometry compared to conventional technique in management of constipation and faecal incontinence in children. [J Pediatr Surg. 2023 Feb;58\(2\):251-257. doi: 10.1016/j.jpedsurg.2022.10.018. Epub 2022 Oct 22.PMID: 36414477.](#)
2. **Keshtgar AS**, Nellihela L, Wright H. Long-term outcome of antegrade colonic enema (ACE) stoma for treatment of chronic constipation and fecal incontinence in children. [J Pediatr Surg. 2022 Nov;57\(11\):575-581. doi: 10.1016/j.jpedsurg.2022.07.004. Epub 2022 Jul.](#)
3. Wright N.J., Leather A.J.M, Ade-Ajayi, N., **Keshtgar, A.S.** et al. **Global PaedSurg Research Collaboration.** Mortality from gastrointestinal congenital anomalies at 264 hospitals in 74 low-income, middle-income, and high-income countries: a multicentre,

international, prospective cohort study. *Lancet* 2021 Jul 24;398(10297):325-339.  
DOI: [10.1016/S0140-6736\(21\)00767-4](https://doi.org/10.1016/S0140-6736(21)00767-4). Epub 2021 Jul 13.

4. **Keshtgar A.S.** Book Chapter-5, Normal Endosonographic Features of the Anal Canal in Children. In *Anorectal endosonography and manometry in pediatrics* published by Springer Nature, Switzerland AG, 2021.
5. **Keshtgar A.S.** Book Chapter-13, Anorectal Manometry and Endosonography in Paediatric Faecal Incontinence. In *Anorectal endosonography and manometry in pediatrics* published by Springer Nature, Switzerland AG, 2021.
6. Thakkar H., Bassett C., Hsu A., Kufeji D., Agrawal M., Richards C., **Keshtgar A.S.** Functional Outcomes in Hirschsprung Disease - A Single Institution's 12-year Experience. *J Pediatr Surg.* 2017, Feb; 52(2): 277-280. DOI: [10.1016/j.jpedsurg.2016.11.023](https://doi.org/10.1016/j.jpedsurg.2016.11.023)
7. Nigel J Hall, Simon Eaton, Michael P Stanton, MD, Agostino Pierro, David M Burge, Alireza Keshtgar et al Active observation versus interval appendicectomy after successful non-operative treatment of an appendix mass in children (CHINA study)/ an open-label, randomised controlled trial - *The Lancet Gastroenterology & Hepatology*, 2017, Apr; 2(4): 253–260. DOI: [10.1016/S2468-1253\(16\)30243-6](https://doi.org/10.1016/S2468-1253(16)30243-6)
8. Joodi M, Fathi M, Sabzevari A, **Keshtgar AS**, et al. Intraoperative Sonographic Guided Pull-through Anorectoplasty: A Novel Procedure for Imperforate Anus and Rectourethral Fistula: A Clinical Trial Study. *Int J Pediatr.* 2017, 5(48):6195-6200. DOI: [10.22038/ijp.2017.23287.1966](https://doi.org/10.22038/ijp.2017.23287.1966)
9. **Keshtgar A.S.**, Kufeji D., Choudhry M.S., Clayden G.S., Ward H.C. Anorectal manometry with and without ketamine for evaluation of defecation disorders in children. *J Pediatr Surg.* 2015 Mar; 50(3): 438-43. DOI: [10.1016/j.jpedsurg.2014.08.016](https://doi.org/10.1016/j.jpedsurg.2014.08.016)
10. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Pathophysiology of chronic childhood constipation: Functional and morphological evaluation by anorectal manometry and endosonography and colonic transit study. *J Pediatr Surg.* 2013 Apr; 48(4): 806-12. DOI: [10.1016/j.jpedsurg.2012.08.037](https://doi.org/10.1016/j.jpedsurg.2012.08.037)
11. Sadeghi R., Kianifar H.R., Pardis S.H., Adineh P.Z., Dabbagh V.R., **Keshtgar A.S.** Accuracy of hepatobiliary scintigraphy for differentiation of neonatal hepatitis from biliary atresia: systematic review and meta-analysis of the literature. *Pediatr Radiol.* 2013 Aug; 43(8): 905-19. DOI: [10.1007/s00247-013-2623-3](https://doi.org/10.1007/s00247-013-2623-3)
12. Njere I., Islam S., Parish D., Kuna J. **Keshtgar A.S.** Outcome of peripherally inserted central venous catheter in surgical and medical neonates. *J Pediatr Surg.* 2011 May; 46(5): 946-50. DOI: [10.1016/j.jpedsurg.2011.02.037](https://doi.org/10.1016/j.jpedsurg.2011.02.037)
13. Clayden G.S., Adeyinka T., Kufeji D., **Keshtgar A.S.** Surgical management of severe chronic constipation. *Arch Dis Child.* 2010 Nov; 95(11): 859-60. DOI: [10.1136/adc.2009.180802](https://doi.org/10.1136/adc.2009.180802)
14. **Keshtgar A.S.**, Ward H.C. Clayden G.S. Transcutaneous needle-free Injection of botulinum toxin: A novel treatment of childhood constipation and anal fissure. *J Pediatr Surg.* 2009 Sep; 44(9): 1791-8. DOI: [10.1016/j.jpedsurg.2009.02.056](https://doi.org/10.1016/j.jpedsurg.2009.02.056)

15. Hall N., Kufeji D, **Keshtgar A.S.** Out with the old and in with the new: A comparison of rectal suction biopsies with traditional and modern biopsy forceps. J Pediatr Surg. 2009; 44, 395-398. DOI: [10.1016/j.jpedsurg.2008.10.093](https://doi.org/10.1016/j.jpedsurg.2008.10.093)
16. **Keshtgar A.S.**, Athanasakos E., Clayden G.S., Ward H.C. Evaluation of outcome of anorectal anomaly in childhood: The role of anorectal manometry and endosonography. Pediatr Surg Int 2008 Aug; 24(8): 885-92. DOI: [10.1007/s00383-008-2181-1](https://doi.org/10.1007/s00383-008-2181-1)
17. **Keshtgar A.S.**, Solitary rectal ulcer syndrome in children (**Invited Leading Article**). Eur J Gastroenterol Hepatol. 2008 Feb; 20(2): 89-92. DOI: [10.1097/MEG.0b013e3282f402c1](https://doi.org/10.1097/MEG.0b013e3282f402c1)
18. **Keshtgar A.S.**, Ward H.C., Sanei A., Clayden G.S. Botulinum toxin, a new treatment modality for chronic idiopathic constipation in children: long-term follow-up of a double-blind randomized trial. J Pediatr Surg. 2007 Apr; 42(4): 672-80. DOI: [10.1016/j.jpedsurg.2006.12.045](https://doi.org/10.1016/j.jpedsurg.2006.12.045)
19. **Keshtgar A.S.**, Ward H.C., Richards C., Clayden G.S. Outcome of excision of megarectum in children with anorectal malformation. J Pediatr Surg. 2007 Jan; 42(1): 227-33. DOI: [10.1016/j.jpedsurg.2006.09.021](https://doi.org/10.1016/j.jpedsurg.2006.09.021)
20. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Role of anal dilatation in treatment of idiopathic constipation in children: Long-term follow up of a double blind randomized controlled study. Pediatr Surg Int 2005; 21:100-105. DOI: [10.1007/s00383-004-1336-y](https://doi.org/10.1007/s00383-004-1336-y)
21. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Thickening of the internal anal sphincter in idiopathic constipation in children. J Pediatr Surg 2005; 40:1217 (Abstract).
22. Clayden G.S., **Keshtgar A.S.**, Carcani-Rathwell I., Abhyankar A. The management of chronic constipation and related faecal incontinence in childhood. Arch Dis Child Pract 2005; 90 ep58-ep67. DOI: [10.1136/adc.2004.066019](https://doi.org/10.1136/adc.2004.066019)
23. **Keshtgar A.S.**, Clayden G.S., Ward H.C. Diagnosis and management of children with intractable constipation (Invited Article). Semin Pediatr Surg 2004; 13:300-309. DOI: [0.1053/j.sempedsurg.2004.10.018](https://doi.org/0.1053/j.sempedsurg.2004.10.018)
24. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Thickening of the internal anal sphincter in idiopathic constipation in children. Pediatr Surg Int 2004; 20:817-823. DOI: [10.1007/s00383-004-1233-4](https://doi.org/10.1007/s00383-004-1233-4)
25. Clayden G.S., **Keshtgar A.S.** Management of childhood constipation. Postgrad Med J. 2003 Nov; 79(937): 616-21. DOI: [10.1136/pmj.79.937.616](https://doi.org/10.1136/pmj.79.937.616)
26. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Investigations for incontinence and constipation after surgery for Hirschsprung's disease in children. Pediatr Surg Int 2003; 19: 4-8. DOI: [10.1007/s00383-002-0897-x](https://doi.org/10.1007/s00383-002-0897-x)
27. **Keshtgar A.S.**, Griffiths M.D. Incarceration of umbilical hernia in children: Is the trend increasing? Eur J Pediatr Surg 2002; 12:1-4. DOI: [10.1055/s-2003-38299](https://doi.org/10.1055/s-2003-38299)
28. **Keshtgar A.S.**, Rickwood A.M.K. Urological consequences of incomplete cord lesions in patients with myelomeningocele. Br J Urol 1998; 82: 258-260. DOI: [10.1046/j.1464-410x.1998.00721.x](https://doi.org/10.1046/j.1464-410x.1998.00721.x)

29. **Keshtgar A.S.**, Turnock R.R. Wandering calcified ovary in children. *Pediatr Surg Int* 1997; 12: 215-216. PMID: 9156868
30. **Keshtgar A.S.**, Losty P.D., Pierro A., Lloyd D.A. Recent advances in the management of Peutz Jeghers Syndrome in children. *Eur J of Pediatr Surg* 1997; 367-368. DOI: [10.1055/s-2008-1071194](https://doi.org/10.1055/s-2008-1071194)
31. Buckley T.F., **Keshtgar A.S.** et al European Subarachnoid Haemorrhage Study Group. Effect of calcitonin gene related peptide (CGRP) in patients with delayed postoperative cerebral ischaemia after aneurysmal subarachnoid haemorrhage. *Lancet* 1992; 339: 831-34.

### Peer Reviewed International Presentations

1. **Keshtgar AS**, Mobini M, Jagielka K, Venkatasubramaniam P, Gan D, Wang A, Parthipun A. Outcomes of Percutaneous Endoscopic Gastrostomy (PEG) versus Radiologically Inserted Gastrostomy (RIG) in Children: A Preliminary Report. Presented at 69th Annual International Congress of British Association of Paediatric Surgeons, Bruges, 21-23 June 2023.
2. Husain S, **Keshtgar AS**. Comparison of 3D-high resolution anorectal manometry (3D-HRARM) with and without ketamine in the assessment of anorectal function. Awarded Best Student Oral Presentation at London Medical Student Research Conference 2023, 12th March, 2023.
3. **Keshtgar AS**, Selim I. Role of 3D high resolution anorectal manometry compared to conventional technique in management of constipation and faecal incontinence in children. Presented at 68th Annual International Congress of British Association of Paediatric Surgeons, Birmingham, 13-15 July 2022.
4. Nellihela L, Wright H, **Keshtgar AS**. Long term outcome of antegrade continent enema stoma (ACE) stoma for constipation and faecal incontinence in children. Presented at International Conference of European Pediatric Surgeons' Association, Athens Greece, 1-4 September 2021.
5. **Keshtgar A.S.** Invited Guest Lecturer in Hands-on Workshop on Diagnostic and Operative Endoanal Ultrasonography. Endoanal Ultrasonography: use in Pediatrics and Chronic Constipation in Children: combined endosonographic and manometric approach. Presented at Sant' Orsola-Malpighi University Hospital, 40138 Bologna, Italy on 29 October 2020.
6. **Keshtgar A.S.** Necrotising enterocolitis and spontaneous intestinal perforation (SIP) in neonates. Presented at Lewis Spitz and Edward Kiely international symposium and 71st Simpson Smith Memorial Lecture, Institute of Child Health, University College London on 24th September 2019.
7. **Keshtgar A.S.**, Thakkar H., De Rome K. Outcome of botulinum toxin treatment for functional constipation in children. Presented at 64th Annual International Congress of British Association of Paediatric Surgeons, London, 19-21 July 2017. Presented preliminary results in International congress of World Federation of Association of Pediatric Surgeons, Washington DC, United States 8-11 October 2016.

8. Nellihela L., Said A., Upadhyaya M., Bouhadiba N., **Keshtgar A.S.**, Richards C., Kufeji D. Agrawal M. Clinical outcome of patients with congenital Herat defecata and congenital d'apragmatici hernial. Presented in World Federation of Association of Pediatric Surgeons, Washington DC 8-11 October 2016.
9. Nellihela N., **Keshtgar A.S.** Outcome of antegrade continent enema (ACE) stoma for treatment of chronic constipation and faecal incontinence in children. Presented at 64th Annual International Congress of British Association of Paediatric Surgeons, London, 19-21 July 2017.  
  
Presented preliminary results at the 24th Congress of the Asian Association of Pediatric Surgeons and 53rd Annual Congress of Japanese Society of Pediatric Surgeons, Fukuoka, Japan, 24-26 May 2016.
10. Thakkar H., Bassett C., Hsu A., Kufeji D., Agrawal M., Richards C., **Keshtgar A.S.** Outcomes in Hirschsprung Disease - A Single Institution's 10-year Experience. Presented at the 24th Congress of the Asian Association of Pediatric Surgeons and 53rd Annual Congress of Japanese Society of Pediatric Surgeons, Fukuoka, Japan, 24-26 May, 2016.
11. Manuele R., Cheung S., Kufeji D., Richards D, Kadhim H, Matthews C, **Keshtgar A.S.** Effect of intrasphincteric botulinum toxin on post operative obstructive symptoms in children with Hirschsprung disease. Presented at 22<sup>nd</sup> International Colorectal Club Conference, Milan 13-15 June 2015.
12. Hall N.J., Stanton M.P., Burge D.M., Pierro A., Eaton S. **Keshtgar A.S.**, on behalf of the CHINA study collaborators and the PSTRN: Active observation versus interval appendicectomy following successful non-operative treatment of appendix mass in children: randomised controlled evaluation.
13. Bisharat M., **Keshtgar A.S.** Botulinum toxin: A new solution for an old problem. Presented as an abstract at 61st Annual International Congress of British Association of Paediatric Surgeons Edinburgh 16-19 July 2014.
14. Naqvi S., Lupi M., Gkoutzios P., Kufeji D., Ahmad S., Agrawal M., Richards C., Upadhyaya M., **Keshtgar A.S.** Outcome of feeding percutaneous endoscopic gastrostomy with a jejunal extension versus surgical jejunostomy in children. Presented at International Congress of European Paediatric Surgeons' Association in Dublin, 18-21 June 2014.
15. **Keshtgar A.S.**, Kader S., Younis A., Kufeji D., Malakounides G. Internal anal sphincter achalasia: Myth or reality? Presented at International Congress of European Paediatric Surgeons' Association in Dublin, 18-21 June 2014.
16. Pong F.X., Purmah, N., **Keshtgar, A.S.** Complications of percutaneous gastrostomy and jejunostomy in children. Presented at 60<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons Bournemouth 16-19 July 2013.
17. Fouad, D., Beak, P. Kufeji D., **Keshtgar, A.S.** Outcome of Pyloromyotomy for pyloric stenosis. Presented at Tripartite meeting in collaboration with King's College Hospital and St George's Hospital and presented in Tripartite meeting in London, December 2013.

18. **Keshtgar A.S.**, Choudhry M.S., Harry C. Ward, Graham S. Clayden. Anorectal manometry under ketamine anaesthesia and awake for evaluation of defecation disorder in children. Presented at 59<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons and European Association of Pediatric Surgeons, Rome, 13-16 June 2012.
19. Njere I, Hedayati B, Salari, R, Kufeji D, **Keshtgar A.S.** Correlation between radiographic and histologic transition zones in Hirschsprung disease. Presented at 58<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons, Belfast 19-22 July 2011.
20. Featherstone N, Dove J, **Keshtgar A.S.** Peritoneal microbiology swabs in acute paediatric appendicitis: Are they necessary? Presented at 58<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons, Belfast 19-22 July 2011.
21. Njere I., Islam S., Parish D., Kuna J. **Keshtgar A.S.** Outcome of peripherally inserted central venous catheter in surgical and medical neonates. Presented at 42<sup>nd</sup> Annual International Congress of Canadian Association of Paediatric Surgeons (CAPS), Saskatoon, 23-25 September 2010.
22. Alexander N., Kufeji D. **Keshtgar A.S.** Evolution in the management of gastroschisis in a single centre. Presented at 57<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Aberdeen, 21-25 July 2010.
23. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Transcutaneous needle-free Injection of botulinum toxin into the external anal sphincter: A novel treatment for chronic idiopathic constipation in children. Presented at 55<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Salamanca, Spain, 2-5 July 2008.
24. Islam S., Gonzalez J., **Keshtgar A.S.** Outcome of peripherally inserted central venous catheter (PICC) in surgical and medical neonates. Presented at 55<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Salamanca, Spain, 2-5 July 2008.
25. **Keshtgar A.S.**, Hall N., Kufeji D. Out with the old and in with the new: A comparison of rectal suction biopsies with traditional and modern biopsy forceps. Presented at 55<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Salamanca, Spain, 2-5 July 2008.
26. **Keshtgar A.S.**, Clayden G.S., Ward H.C. Use of Botulinum toxin in treatment of childhood constipation. Presented at International Joint Paediatric Surgical and Medical Chronic Constipation Seminar, Margate, 8-9 November 2007.
27. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Prognostic role of anorectal manometry, endosonography and intestinal transit studies in management of childhood constipation and faecal incontinence. Presented at 54<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Edinburgh, 17-20 July 2007.
28. Ward H., **Keshtgar A.S.**, Scott M., Lunniss P., Aziz Q. Investigation of constipation in children. Presented at International Pediatric Colorectal Conference, York, 14-16 July 2007.

29. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Needle-free injection of botulinum toxin: A novel treatment for chronic idiopathic constipation in children (Preliminary Report). Presented at International Pediatric Colorectal Conference in Helsinki, 15-17 July 2006.
30. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Double blind randomised trial of botulinum toxin injection versus myectomy of the internal anal sphincter in treatment of chronic idiopathic constipation in children. Presented at 51<sup>st</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Oxford 27-30 July 2004.
31. **Keshtgar A.S.**, Ward H.C., Richards C., Clayden G.S. Outcome of excision of megarectum in children with anorectal anomaly with respect to sphincter quality and presence or absence of neuropathy. Presented at 51<sup>st</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Oxford 27-30 July 2004.
32. **Keshtgar A.S.**, Sanei A., Ward H.C. Manometry data analysis for windows in clinical practice. Presented at 15<sup>th</sup> International Research Symposium in Pediatric Surgery, Marseille, 3- 4 October 2003.
33. **Keshtgar A.S.**, Ward H.C., Clayden G.S. Anorectal manometry under ketamine anaesthesia in children: A reliable technique. Presented at 15<sup>th</sup> International Research Symposium in Pediatric Surgery, Marseille, 3- 4 October 2003.
34. **Keshtgar A.S.**, Ward H.C., Richards C., Clayden G.S. Endosonography and sphincter quality after repair of anorectal anomaly in children. Presented at 50<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Estoril, Portugal 15-18 July 2003.
35. **Keshtgar A.S.**, Clayden G.S., Ward H.C. Thickening of the internal anal sphincter in idiopathic constipation in children. Presented at 50<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Estoril, Portugal 15-18 July 2003.
36. **Keshtgar A.S.**, Clayden G.S., Ward H.C. Role of anal dilatation in the treatment of idiopathic constipation in Children: Preliminary results of a double blind randomised controlled Trial. Presented at 50<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Estoril, Portugal 15-18 July 2003.
37. **Keshtgar A.S.**, Clayden G.S., Ward H.C. Surgery for Idiopathic Megarectum in Children. Presented as a Poster at 49<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Cambridge, 18-21 July 2002.
38. **Keshtgar A.S.**, Clayden G.S., Ward H.C. Investigations for incontinence and constipation after surgery for Hirschsprung's disease. Presented at 47<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Sorrento, Italy, 18-21 July 2000.
39. **Keshtgar A.S.**, Puri P. Cystic hygroma and lymphangioma in children: Clinical course, surgical management and long-term outcome. Presented at 44<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Istanbul, 22-25 July 1997.
40. **Keshtgar A.S.**, Rickwood A.M.K. Urological consequences of incomplete cord lesions in patients with myelomeningocele Presented at 44<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Istanbul, 22-25 July 1997.



41. **Keshtgar A.S.**, Rintala R.J., Lamont G.A., Losty P.D., Lloyd D.A. Complications following fundoplication and gastrostomy in neurologically impaired children. Presented at 43<sup>rd</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), Jersey, 16-19 July 1996.
42. **Keshtgar A.S.**, Pierro A., Losty P.D., Lloyd D.A. Recent advances in the management of Peutz-Jeghers Syndrome in children. Presented at the 42<sup>nd</sup> Annual International Congress of British Association of Paediatric Surgeons (BAPS), 25-28 Sheffield, July 1995.
43. **Keshtgar A.S.**, Fitzgerald R.J. Xanthogranuloma Pyelonephritis in children, a diagnostic dilemma. Presented at Annual national meeting of Irish Paediatric Surgeons; Belfast, 23-24 April 1994.

## **Innovations**

### **1. Botulinum toxin: a new treatment modality and needle-free injection of the toxin into the external anal sphincter as a novel treatment of chronic idiopathic constipation and anal fissure in children.**

*Keshtgar A.S., Ward H.C. Clayden G.S J Pediatr Surg. 2007 Apr; 42(4): 672-80.*

*Keshtgar A.S., Ward H.C. Clayden G.S. J Pediatr Surg. 2009 Sep; 44(9): 1791-8*

I pioneered the above novel treatment for chronic childhood constipation and anal fissure during my PhD research work at King's College London as outlined above in research section.

### **2. Awake anorectal manometry and biofeedback training and endosonography for chronic idiopathic constipation in children**

*Presented at 59<sup>th</sup> Annual International Congress of British Association of Paediatric Surgeons and European Association of Pediatric Surgeons in Rome, 13-16 June 2012.*

*Published in Journal of Pediatric Surgery, J Pediatr Surg. 2015 Mar;50(3):438-43.*

I have introduced the above technique of awake anorectal studies without sedation or anaesthesia for management of colorectal motility disorders in children during my research work at Guy's and St Thomas' NHS Foundation Trust, London. I set up the service of awake anorectal manometry and biofeedback training and endosonography at Evelina Children Hospital in July 2013.

I had previously performed the awake studies as a day case procedure, which was tolerated well by children and it was cost beneficial for the hospital during my research work. The awake manometry study provided additional information about rectal sensation and dynamics of pelvic floor and anal sphincters muscle contractions. As a result of this work, the Trust gained additional revenue in excess of £100,000 per annum between 2000 and 2003. This helped funding my research project and getting approval from Hospital Management Board for a substantive research fellow post at Guy's and St Thomas' NHS Foundation Trust.

### **3. Anorectal manometry analyser software**

Presented as a paper in 15<sup>th</sup> International Research Symposium in Pediatric Surgery, Marseille, 3-4 October 2003.

I designed and developed a new computer software programme with help of a computer programmer for analysing anorectal manometry data during my research work. My new software known as **Anorectal Manometry Analyser (AMA)**, is written in Visual C ++ language for Windows environment.

The software enables clinicians and researchers to import data from any compatible recording analogue device or existing manometry machine and after analysis export the data to database programmes like Microsoft Excel or SPSS for statistical calculations. The AMA software produces high quality colour graphics and has capabilities to make detailed analysis of frequency and amplitude of intestinal contractions. AMA was a powerful tool in my research and clinical practice to keep an up to date digital record of patients investigations.

The AMA software programme was presented as a research paper in 15<sup>th</sup> International Research Symposium in Pediatric Surgery, Marseille, 3- 4 October 2003.

### **Management and clinical governance responsibilities**

I have been responsible to provide high quality care to my patients and their families and to meet targets set by my department and Trust. I have represented my department in ‘Clinical Improvement Committee’ at University Hospital Lewisham and in “WHO Safety Group” at Evelina London Children’s Hospital to discuss issues related to risk management, bed occupancy, length of hospital stay, efficient use of theatre resources and implementation of WHO check list in theatre.

### **Administrative and other responsibilities**

I am responsible for efficient running of my firm with regard to service provision, training of medical students and junior doctors and maintaining good communications with my colleagues, nursing staff, children and their parents and GPs.

### **Team working**

I fully recognise the importance of team working and being a team player. I have been able to establish good professional relationships with my surgical and medical colleagues, neonatologists, nursing staff and secretaries. This has benefitted provision of a high quality service and multidisciplinary team approach to our patients.

### **IT skills**

I have expertise in designing and using computer database and spreadsheet programmes including Microsoft Access and Excel. I have advanced skills to use SPSS software for statistical analysis.

I designed a computer database programme with help of Information Technology department for our unit at Lewisham Hospital. The computer programme had the capability of collecting the

information about operative and non-operative admissions and morbidity and mortality data prospectively on daily basis.

## **Continuing Professional Development**

<b>Advanced Expert Witness Medicolegal Training Course</b>	Healthcare Knowledge Ltd, Specialistinfo London, 18 July 2023
<b>British Association of Paediatric Surgeons International Congress</b>	Bruges, 21-23 June 2023 Birmingham, 13-15 July 2022 Nottingham 3-5 July 2019 London, 17-20 July 2017 Bournemouth, 16-10 July 2013 Rome, Italy 13-16 June 2012 Belfast, 19-22 July 2011 Salamanca, Spain, 2-5 July 2008 Edinburgh, 17-20 July 2007 Oxford 27-30 July 2004 Estoril, 15-18 July 2003 Cambridge, 23-26 July 2002 London, 17-20 July 2001 Sorrento, 18-21 July 2000 Liverpool, 20-23 July 1999 Bristol, 21-24 July 1998 Istanbul, 22-25 July 1997 Jersey, 16-19 July 1996 Rotterdam, 28 June -1 July 1994 Sheffield, 25-28 July 1995
<b>UK Paediatric Colorectal Group Meeting (UK PCG)</b>	UKPCG & BAPS meeting 18-19 November 2021 UKPCG London 20 May 2021 Online video conference via Zoom
<b>Paediatric Educational Supervisor Workshop</b>	15 November 2019 London School of Paediatrics
<b>3D Medlive: 3D Printing in Surgery</b>	London, 2-3 October 2019 Accredited by the Royal College of Surgeons on England
<b>Invited Lecturer in 71<sup>st</sup> International Simpson Smith Symposium</b>	24 September 2019 Institute of Child Health, University College, London
<b>Advanced Medico-legal Expert Witness Course</b>	London, 19 June 2019 Specialist Info. Healthcare Knowledge Ltd.
<b>Visiting Paediatric Surgeon</b>	Hannover 19 -30 October 2015 Department of Paediatric Surgery, Hannover Medical School, Germany

<b>Speaking with impact</b>	Understanding ModernGov, London 21 April 2015
<b>Advanced Laparoscopy in Paediatric Surgery Course &amp; Workshop</b>	IRCAD/EITS, Strasbourg, 26-28 March 2015
<b>Mastering Professional Interactions</b>	Medical Protection Society, London 13 February 2015
<b>Definitive Surgical Trauma Skills (DSTS) Course</b>	Royal College of Surgeons in England, 29-30 April 2014
<b>International Paediatric Colorectal Conference</b>	Milan, Italy 13-15 June 2015 Dublin 15-17 June 2014 Rome, Italy 11-12 June 2012 Salamanca, Spain, 2-5 July 2008 York, England 14-16 July 2007 Helsinki, Finland 15–17 July 2006
<b>International Congress of European Association of Paediatric Surgeons</b>	Paris, 21-23 June 2018 Dublin, 18-21 June 2014
<b>British Association of Paediatric Endoscopic Surgeons &amp; European Society of Paediatric Endoscopic Surgeons</b>	Chelsea and Westminster Hospital, London, 3-4 November 2011
<b>Paediatric Laparoscopy Course</b>	Great Ormond Street Hospital for Children, 2011
<b>Endoanal Ultrasound Course</b>	St Thomas Hospital, NHS Foundation Trust, London, 6 July 2011
<b>Canadian Association of Paediatric Surgeons (CAPS)</b>	42 <sup>nd</sup> Annual International Congress, Saskatoon, 23-25 September 2010.
<b>Medico-Legal Expert Advanced Training Course</b>	Healthcare Knowledge Ltd, London 21 April 2010
<b>TAIP for Trainers and Assessors</b>	Centre for Postgraduate Professional Education St Thomas' Hospital, 10 March 2010
<b>Managing a Pelvic Floor Service</b>	Chilworth Manor, Southampton, 16 October 2009
<b>Teaching the Teachers Course for Consultants</b>	King's College Hospital, London 24 July 2009
<b>Good Clinical Practice and the Regulatory Requirements for Clinical Trials</b>	University Hospital Lewisham, 3 July 2009

**International Simpson Smith  
Symposium**

Institute of Child Health, University College London  
24th September 2019  
24 June 2010  
4 June 2008  
6 June 2007  
8 June 2006  
16 June 2005  
9 June 2004  
7 June 2001

**Work placement Assessment for  
Paediatric SPRs**

London Deanery, 18 June 2009

**Consultant Development Programme**

University Hospital Lewisham, London  
18 March 2008  
17 February 2009

**London Trainers and Educational  
Supervisors Day**

The Royal College of Surgeons of England,  
24 January 2008

**NHS Innovation and Intellectual  
Property Management Course**

NHS innovations, London, 28 June 2006

**Advanced Paediatric Laparoscopy  
Course**

Department of Paediatric Surgery, Norfolk and  
Norwich University Hospital, 7-8 November 2006

**Advanced SPSS Statistics Course**

King's College Hospital, London, 15-16 December  
2005

**Laparoscopic Nissen Fundoplication  
Course**

Royal Surrey County Hospital, Guilford  
9-10 December 2003, Minimal Access Therapy Unit

**Management Course for Consultants**

Guy's and St Thomas' Hospital, London  
25-29 January 1999  
South & West Postgraduate Medical Education,  
Bournemouth, 1-3 December 2003,

**Paediatric Laparoscopy Course**

St. James's University Hospital, Leeds  
14-17 July 1998

**Risk Assessment Course**

Guy's Hospital, London, 27 June 2002

**Innovation & the Law and  
Intellectual Properties Course  
Ultrasound for General Surgeons**

Guy's Hospital, London, 26 March 2003  
The Royal College of Surgeons of England, London,  
2, 3 May 2002,

**Training the Trainers' (TIPS) Course**

Clinical Skill Centre, Guy's Campus, London, 16-17  
May 2002

**Faecal Incontinence Conference**

St Bartholomew's and the Royal London School of  
Medicine & Dentistry, 13-14 April 2000

<b>Anorectal Manometry Course</b>	St Mark's Hospital, London, 27-28 June 2000
<b>Anal Endosonography Course</b>	19th November 1999, St Marks Hospital, London
<b>Pena Course for Surgery of Anorectal Malformation</b>	St. James's Hospital, Leeds, 18-20 September 1997
<b>Paediatric Surgical Skill Workshop</b>	Alder Hey Hospital, Liverpool, 7, 8 March 1996
<b>Surgical Technique Workshop</b>	Royal College of Surgeons of England, London, 6-9 June 1995,
<b>Digital Imaging and Photoshop</b>	Guy's Hospital NHS Trust, London, 25 March 2003
<b>Introduction to Microsoft Excel Spread sheet Course</b>	Guy's Hospital NHS Trust, London, 28-29 May 2002
<b>An Introduction to Effective Presentation Course</b>	Guy's Hospital NHS Trust, London, 10 May 2002
<b>Advanced Microsoft Access Database Course</b>	Guy's Hospital NHS Trust, London, 9 July 2001
<b>Paediatric Urology Continence</b>	Great Ormond Street Hospital for Children, London, 9 July 2001
<b>7th Nephro-Urology Symposium</b>	General Hospital, Leicester, 3 - 4 June 1999
<b>Advances and Controversies in Childhood Constipation Conference</b>	Queen Elizabeth Queen Mother Hospital, Margate, 11-12 October 2000
<b>Oncology for the Paediatric Surgeon Conference</b>	Royal Children Hospital, Bristol, 22 April 1997
<b>Advances and Controversies in Paediatric Urology</b>	St James Hospital, Leeds, 22 March 1994
<b>State of the Art Symposium in Paediatric Surgery</b>	Our Lady's Hospital for Sick Children, Crumlin, Dublin, 19 July 1993
<b>Advanced Trauma Life Support (ATLS)</b>	Royal College of Surgeons of England, Advanced London, 10.09.1993

### **Extra-Curricular Activities**

I enjoy regular physical activities including walkin and gardening, calligraphy, photography and reading books.