

**DR KARUNAKARAN RAMASWAMY**

**MBBS, DA, FRCA, MBA, I LEAD 2**

**ATTENDING PHYSICIAN, ANESTHESIOLOGY**

**SIDRA MEDICINE, DOHA, QATAR**

**ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY**

**WEILL CORNELL MEDICAL COLLEGE, QATAR**



**[ramaswamy.karunakaran@gmail.com](mailto:ramaswamy.karunakaran@gmail.com)**



**+974 55907679**



**@kkramaswamy**



Nationality: British  
GMC (UK) Registration: 6073698  
QCHP (Qatar) License: P11009  
Certification: **CCT (Certificate of Completion of Training)**  
Royal College of Anaesthetists, UK, Feb 2012 (654739)

## QUALIFICATIONS

November 2018 **I Lead 2-Senior Leadership Development**  
**Harvard** Business Publishing Corporate Learning  
Brighton, USA

January 2011 **MBA- with Merit (Masters in Business Administration)**  
**Oxford Brookes University, UK**

December 2007 **FRCA (Fellow of Royal College of Anaesthetists)**  
**Royal College of Anaesthetists, London, UK**

October 2002 **DA (Diploma in Anaesthesia)**  
**Rajiv Gandhi University of Health Sciences, India**

March 1995 **MBBS**  
**Mysore University, India**

## CURRENT EMPLOYMENT

Oct 2017-To date **Attending Physician-Adult Anesthesiology**  
Sidra Medicine, Doha, Qatar

April 2018 –To date **Assistant Professor of Clinical Anesthesiology**  
Weill Cornell Medical College, Qatar



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## PREVIOUS EMPLOYMENTS

|                                   |  |
|-----------------------------------|--|
| June 2012-Oct 2017<br>(64 Months) | Consultant Anesthesiologist<br>Northampton General Hospital, Northampton, UK |
| Feb 2013-Oct 2017<br>(54 Months)  | Consultant Anesthesiologist<br>BMI Three Shires Hospital, Northampton, UK    |
| Feb 2007-May 2012<br>(63 Months)  | Specialist Registrar, Anaesthesia<br>Oxford Deanery, Oxford, UK              |
| Mar 2005-Feb 2007<br>(23 Months)  | Senior House Officer, Anaesthesia<br>Northampton General Hospital, UK        |
| Nov 2004-Mar 2005<br>(3 Months)   | Senior House Officer, Anaesthesia<br>Barnet General Hospital, Barnet, UK     |
| Oct 2002-Jul 2004<br>(21 Months)  | Divisional Medical Officer, Anaesthesia<br>Western Railway Hospital, India   |

## CLINICAL EXPERTISE

- I trained in **Oxford Deanery** and have more than twenty years of anesthetic experience. I competitively secured and completed fellowships in vascular, transplant, and difficult airway management from the Oxford Deanery.
- I have extensive consultant level experience in providing anesthetic care to most major specialties including orthopedics, colorectal surgery, oral and maxillofacial, ENT, gynecology, vascular surgery, transplant, regional anesthesia, and robotic surgery.
- At Sidra Medicine, I was involved in **activating the Department of Anesthesiology**. This included developing and implementing policies and procedures as per **JCI standard**, liaising with multiple departments, training, workflows, simulations, and safety drills. In summary, a brand new hospital has a safe, efficient, effective, and JCI compliant Department of Anesthesiology.
- I am currently providing anesthesia for **most major surgical specialties** including major robotic surgery, day case, IVF, living-related kidney donors, and obstetrics. I provide labor analgesia in a state of the art 24/7 unit.
- I have set up Cardiopulmonary Exercise Testing, prehabilitation, ultrasound-guided block room, and workflow, Enhanced Recovery programs which reduced in-hospital stay, improved efficiency, enhanced patient safety, and cost-saving in my previous hospitals.



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## INVITED FACULTY FOR INTERNATIONAL CONFERENCES

I am regularly invited to deliver lectures at many international conferences as an expert.

- 1) To be delivered- December 2020- Lecture on the **impact of words on patients and colleagues**, 5<sup>th</sup> Ganga Anesthesia Conference
- 2) September 2020-Lecture-**Sharing and Caring during COVID-19**
- 3) August 2020-**Key Note lecture-Opioid Free Anesthesia-**, TIVA society India
- 4) August 2020 - **Labor analgesia** RSACP (Research Society of anesthesiology and Clinical Pharmacology) Academic Webinar-
- 5) July 2020- **Minimally invasive surgery and bariatric surgery-** perioperative challenges- AIG Hospital
- 6) March 2020- **COVID-19**, workflow, and anesthetic challenges
- 7) December 2019- **Labor Analgesia Workshop**, RAA, Chennai
- 8) November 2019-Lectures on **TIVA/TCI and Video laryngoscopy**, 52<sup>nd</sup> ASM, Indian society of Anesthesiologists
- 9) October 2019- Lectures- **Evolving art of antral ultrasound and non-technical skills in anesthesia**, 12<sup>th</sup> ASM. Association of Obstetric Anesthesiologists.
- 10) July 2019- Lectures on '**Adjuvants of local anesthesia**' and '**Escalation of pain protocols**' 9<sup>th</sup> ASM Association of Regional Anesthesia
- 11) October 2018 – Lecture-**Do you remember?** And Workshops on **airway management and prevention of atelectasis**, 51<sup>st</sup> ASM Indian Society of Anesthesiologists, Gujarat
- 12) October 2018- Lecture- **Prevention of neurological damage following central neural blockade and non-technical skills workshop**. 11<sup>th</sup> ASM Association of Obstetric Anesthesiologists.
- 13) July 2018 – **Lecture on non-technical factors and workshop on crisis management in anesthesia**. 4<sup>th</sup> Ganga Anesthesia Refresher Course.
- 14) October 2017- Lectures-**Enhanced recovery obstetrics, Cricoid Pressure in RSI and faculty airway workshop**, Chaired a session. 10<sup>th</sup> ASM Association of Obstetric Anesthesiologists



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- 15) May 2017- Faculty **Obstetric Airway management**, Obstetric Anaesthesia Association, Brussels
- 16) June 2017- **High flow nasal oxygen and crisis management**, 3<sup>rd</sup> Ganga Anesthesia Refresher Course
- 17) June 2016 –**Simulation in anesthesia**, 2<sup>nd</sup> Ganga Anesthesia Refresher Course
- 18) Feb 2015- **Ultrasound-guided regional anesthesia**, Frimley Park, UK- Lecture on physics of ultrasound, faculty for hands-on upper limb blocks workshop
- 19) November 2014 and 2015-Faculty for **Difficult Airway Workshop**- Difficult Airway Society, United Kingdom
- 20) April 2011, 2012, 2013- Faculty **Oxford Difficult Airway Workshop**, Oxford
- 21) June 2012, 2013, 2014, 2015, 2016- Leicester/ Northampton Difficult Airway Workshop
- 22) May 2013, 2014- Faculty **Primary FRCA Course**- Northampton
- 23) March 2012, 2013, 2014- **Faculty Train the Trainers**- Royal College of Anaesthetists, UK

## PUBLICATIONS

- 1) **K Ramaswamy**, Future-Proofing Global Healthcare in the post-COVID world, Interviewed by Prof D Sengupta, September 1, 2020, <https://futureofearth.online/future-proofing-global-healthcare-in-the-post-covid-world/>
- 2) Distribution of Extreme Vital Signs and Complete Blood Count Values of Healthy Parturients: A Retrospective Database Analysis and Review of the Literature. Gat, R., Hadar, E., Orbach-Zinger, S., Shochat, T., Kushnir, S., Einav, S. Comment- **Karunakaran Ramaswamy** and Warwick Ngan Kee, [https://journals.lww.com/obstetricanesthesia/Abstract/2020/06000/Distribution\\_of\\_Extreme\\_Vital\\_Signs\\_and\\_Complete.21.aspx](https://journals.lww.com/obstetricanesthesia/Abstract/2020/06000/Distribution_of_Extreme_Vital_Signs_and_Complete.21.aspx)
- 3) Anticipated and unanticipated difficult airway in obstetrics-M Mushambi, **K K Ramaswamy**, Obstetric Anesthesiology- An illustrated Case-Based Approach, Editors Fernando R, Husain T, Segal S. Published by Cambridge University Press, Cambridge, United Kingdom (2019) <https://www.cambridge.org/qa/academic/subjects/medicine/anesthesia-intensive-care-pain-management/obstetric-anesthesiology-illustrated-case-based-approach?format=HB>



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- 4) Dixit A, **Ramaswamy KK**, Perera S, Sukumar V and Frerk C, Impact of change of head and neck position on ultrasound localisation of the cricothyroid membrane: observational study, *Anaesthesia* 2019;74; 29-32  
<https://associationofanaesthetists-publications.onlinelibrary.wiley.com/doi/full/10.1111/anae.14445>
- 5) K.S. Ang, A.Green, **K.K.Ramaswamy**, C.Frerck, Preoxygenation using the Optiflow™ system *Br J Anaesth* (2017) 118 (3): 463-464  
<https://academic.oup.com/bja/article/118/3/463/2999656>
- 6) M C Mushambi, S M Kinsella, M Popat, H Swales, Consultant, **K K Ramaswamy**, A L Winton, and A C Quinn Obstetric Anaesthetists' Association and Difficult Airway Society guidelines for the management of difficult and failed tracheal intubation in obstetrics, *Anaesthesia*. 2015 Nov; 70(11): 1286–1306  
<https://associationofanaesthetists-publications.onlinelibrary.wiley.com/doi/full/10.1111/anae.13260>
- 7) S M Kinsella, A L S Winton, M C Mushambi, **K Ramaswamy**, H Swales, A C Quinn, M Popat Failed tracheal intubation during obstetric general anaesthesia: a literature review, *International Journal of Obstetric Anesthesia* 2015 Nov;24(4):356-74  
[https://www.obstetanaesthesia.com/article/S0959-289X\(15\)00091-6/fulltext](https://www.obstetanaesthesia.com/article/S0959-289X(15)00091-6/fulltext)
- 8) Mahmood A, **Ramaswamy K** Idiopathic Thoracic Spinal Cord Herniation; the Unknown Anaesthetic Implications, *Anaesthesia and Intensive Care*. 2015 Nov;43(6):787-8. <https://pubmed.ncbi.nlm.nih.gov/26603808/>
- 9) Swales H, Mushambi M, Winton A, **Ramaswamy KK**, Kinsella SM, Popat M, Quinn AC. Management of failed intubation and difficult airways in UK obstetric units: An OAA survey. *Int J Obstet Anesth*. 2013;23:S19. [https://www.oaa-anaes.ac.uk/assets/\\_managed/cms/files/Clinical%20Guidelines/Failed\\_Intubation\\_Management\\_Poster.pdf](https://www.oaa-anaes.ac.uk/assets/_managed/cms/files/Clinical%20Guidelines/Failed_Intubation_Management_Poster.pdf)
- 10) Atkinson CJ, **Ramaswamy K**, Stoneham MD, Regional anaesthesia for vascular surgery, *Semin Cardiothorac Vasc Anesth*. 2013 Jun;17(2):92-104.  
<https://pubmed.ncbi.nlm.nih.gov/23327951/>
- 11) **Ramaswamy KK**, Burumdayal A, Bhardwaj M, Russell R A UK survey of the management of intrathecal catheters. *International Journal of Obstetric Anesthesia*. 2013 Jul;22(3):257-9  
[https://www.oaa-anaes.ac.uk/assets/\\_managed/editor/File/Courses/2012/IJOA%20Supplement%20index%20and%20abstracts%202012\\_FINAL.pdf](https://www.oaa-anaes.ac.uk/assets/_managed/editor/File/Courses/2012/IJOA%20Supplement%20index%20and%20abstracts%202012_FINAL.pdf)
- 12) **Ramaswamy KK**, “Major communication factors affecting patient safety incidents in anaesthetic department” dissertation submitted for MBA (Oxford Brookes University), October 2012
- 13) **Ramaswamy KK**, Bogdanov, A. Where is the leak? *Anaesthesia*. 2010 Mar; 65(3):311 <https://pubmed.ncbi.nlm.nih.gov/20236276/>



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- 14) **Ramaswamy KK**, Sellers WF. Should an oesophageal detector device be part of all airway trolleys? Difficult airway society newsletter, 2010
- 15) **Ramaswamy KK**, Wilson, I. Perioperative hypothermia, prevention and management. World federation of Societies of Anaesthesiologists, Tutorial of the week no 117, October 2008. [https://www.wfsahq.org/components/com\\_virtual\\_library/media/bbe7b5f168c27974f56413115a517b59-96dba2e6fb9274fc24d9fc38db1106c1-117---perioperative-hypothermia.pdf](https://www.wfsahq.org/components/com_virtual_library/media/bbe7b5f168c27974f56413115a517b59-96dba2e6fb9274fc24d9fc38db1106c1-117---perioperative-hypothermia.pdf)
- 16) **Ramaswamy KK**, Frerk C. Monitoring end tidal carbon dioxide in recovery? Anaesthesia, 2007 Jan; 62(1):97 <https://pubmed.ncbi.nlm.nih.gov/17156251/>
- 17) **Ramaswamy.KK**. Colour coding of ampoule labels in anaesthesia. Internet Journal of Anaesthesia. Volume 11 Number 2, 2007 <http://ispub.com/IJA/11/2/3843>
- 18) **K K.Ramaswamy**, Dr.W.F.Sellers Another bend in the bougie?, DAS newsletter.
- 19) **Ramaswamy KK**, Kakodkar P. Animal products in anaesthesia. Anaesthesia and Intensive Care, Volume 34 Issue 6 2006 <https://www.thefreelibrary.com/Animal+products+and+anaesthesia.-a0188739846>

#### POSTER PUBLICATIONS/PRESENTATIONS

1. H Swales, M Mushambi, A Winton, K Ramaswamy, A Quinn, M Popat, M Kinsella **Management of failed intubation and difficult airways in UK Obstetric Units - an OAA survey**, OAA ASM, Dublin 2014
2. Ramaswamy.KK, Atkinson. C, Sharma. S, McKechnie. S, Stoneham. M, **National survey of renal protection strategies for endovascular abdominal aortic aneurysm repair**. VASGBI Annual Scientific Meeting, September 2011
3. Atkinson. C, Ramaswamy. KK, Sharma. S. **Anaesthesia for kidney transplantation in a patient with Prader Willi syndrome**, 15<sup>th</sup> Congress of European Society of Organ Transplantation, September 2011
4. Johnston D, Russell E, Ramaswamy KK, Wartolowska K, Madder H. **An audit of the use and efficacy of non-invasive cooling in a neurosurgical intensive care unit**, NASGBI ASM, May 2011
5. Burumdayal. A Ramaswamy. KK. **When to stop?** Society for Obstetric Anesthesia and Perinatology, 43<sup>rd</sup> Annual Meeting, Las Vegas, April 2011
6. Bhardwaj. M, Greig P, Ramaswamy. K, Popat.M. **Assessment of application of cricoid pressure in the obstetric unit using a modified**



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@kkramaswamy



**50 ml syringe.** Society for Obstetric Anesthesia and Perinatology, 43<sup>rd</sup> Annual Meeting, Las Vegas, April 2011

7. Ramaswamy KK, Rai. M. **The case of the missing 'take away' pack,** Difficult Airway Society Meeting, Cheltenham, 2010
8. Ramaswamy KK, Rai. M et al. **Tonsillectomy in the morbidly obese with obstructive sleep apnoea syndrome (OSAS). An indication for tracheostomy?** Difficult Airway Society Meeting, Cheltenham, Nov 2010
9. **All is well,** Oxford Regional Airway Group meeting, Milton Keynes Jan 2010
10. **Extubation strategies,** Oxford Regional Airway Group meeting, Milton Keynes, Jan 2010
11. **Difficult Airway Database-1 and 2,** Oxford Regional Airway Group meeting, Milton Keynes 2006 and Kettering General Hospital, 2007

## LEADERSHIP AND MANAGEMENT ROLES

1. **COVID-19 lead (2020)-** Designed workflow, education, simulation with multidisciplinary teams, staff, and patient guidance for PPE and testing. Processes to protect patients and staff from triage to discharge involved extensive planning, networking, and implementation strategies.
2. **Project ACDC ( Oct 2018—June 19)** project on clinical documentation, coding, and income generation as part of I Lead 2 project. This was selected and presented to the Sidra Board of Directors. Improved income generation.
3. **Transfusion Medicine Lead (Oct 2017-till date)-** In this brand new hospital worked with the hematology and multidisciplinary team to design the guideline, workflow, education, and regular simulation for massive transfusion and elective transfusion procedures. We have reduced our blood transfusion rates by almost thirty percent since opening the hospital
4. **Lead IV iron service-** Our data demonstrated that Qatar has an antenatal anemia incidence of about 40%, the compliance with oral iron therapy is poor and this increased single-unit transfusions post-delivery. This program has virtually eliminated the need for single unit transfusions for anemia. We provide this service antenatally and postnatally.
5. **Research lead-** In a brand new hospital, I am the PI for two research projects which competitively won funding, including formulating the research question, protocol design, IRB and funding application, and IRB approval. Both projects received funding from a research grant.
6. **Co-Lead for JCI** (Joint Commission International) accreditation of Anesthesia and Surgical care chapter. This involved ensuring policies, procedures and



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@kkramaswamy



practices are as per JCI international standard. Sidra Medicine was JCI accredited due to our team's constant efforts.

7. **JCI tracer trained-** I am a certified JCI tracer and this involves conducting tracer activities in various parts of the hospital to ensure the hospital is JCI compliant.
8. **Quality indicators and Key Performance Indicators (KPI) monitoring-** key performance indicators to ensure we are providing the best possible care as per international standards
9. **ACGME-I** trained for residency assessment
10. Proficient in using Cerner electronic medical record system
11. **CPEX lead and Enhanced Recovery Lead** in Northampton General Hospital- Set up these services including business case, education, training, workflow, and implementation. These have rationalized the use of intensive care beds, reduced patient mortality, reduced length of stay, and significant efficiency savings
12. **Operating Room Efficiency Lead, Anesthesia, Northampton General Hospital-** 28 million pounds project resulted in 4 million pounds saving due to efficient utilization of operating room time.

## AWARDS AND PRIZES

- 1) November 2018- **Top performer award**, I Lead 2 course, Harvard business publishing corporate learning, Sidra Medicine, Qatar Nov 2019.
- 2) April 2017-**Best team player award**, PROMPT, Northampton General Hospital, United Kingdom, 2017.
- 3) January 2011- MBA with Merit
- 4) **Best Candidate prize**, Managing Obstetric Emergencies and Trauma course, 2009, Airedale General Hospital, UK
- 5) **Second prize**, Annual Audit Day Presentation, 2007, Northampton General Hospital, UK
- 6) Mrs.Geeta Srivastava **Best Research Paper Award**, 2003, for oral presentation of the paper in the Indian Railway Chapter of Indian Society of Anaesthesiologists, India
- 7) **Gold Medal** in Ophthalmology, 1997, J.S.S. Medical College, India



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## CURRENT RESEARCH PROJECTS

- 1) **Epidural analgesia reduces cesarean section**- a retrospective analysis of labor data at Sidra Medicine. This interesting study using Robson classification has given us unique insight that epidural reduces cesarean section in most categories.
- 2) **Perineal tear Pain Management Program**- evidence-based perineal tear management
- 3) An observational study comparing blood glucose fluctuations in laboring parturients with gestational diabetes with and without epidural analgesia using continuous non-invasive glucose monitoring- Awaiting IRB approval. Funding of 118000 QAR granted
- 4) Dose-Response Study of Phenylephrine for Preventing Hypotension Induced by Oxytocin Given during Cesarean Delivery, KK Ramaswamy. Awaiting MOPH approval. Funding of 80000 QAR approved for the project

## REVIEWER FOR INTERNATIONAL JOURNALS

- **International Journal of Obstetric Anesthesia**- I have reviewed two review articles and an editorial this year and all my decisions have been upheld by the editor.
- **Indian Journal of Anesthesia**- reviewer for the last two years and have reviewed thirteen review articles and all my decisions have been upheld by the editor

## CME/EDUCATION/TRAINING

|                     |  |
|---------------------|--|
| November 2020       | RCOA-RA-UK Ultrasound-guided Part A blocks             |
| March-October 2020  | Multiple COVID-19 webinars worldwide                   |
| July- November 2020 | SOAP USA Virtual Meeting Series                        |
| September 2020      | EBPOM-USA, Chicago Masters Course                      |
| August 2020         | ACLS Instructor and Provider- Sidra Medicine           |
| August 2020         | Guidance on Ambulatory Spinal Anesthesia, RA- UK       |
| June 2020           | EBPOM-Annual London Congress of perioperative Medicine |
| July 2020           | Guy's Airway Management Course                         |
| December 2019       | Neonatal Resuscitation Programme, Sidra Medicine       |
| November 2019       | Adult cardiac Life Support, Sidra Medicine             |
| December 2019       | Labour analgesia workshop                              |
| October 2019        | ASM Indian society of Anesthesiologists, Vadodara      |



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| October 2019   | ASM, Association of Obstetric Anesthesiologists, Chennai  |
| July 2019      | Association of Regional Anesthesia, Coimbatore  |
| April 2019     | Mindfulness, Sidra Medicine, Qatar  |
| February 2019  | Research in ACGMEI, Sidra Medicine, Qatar   |
| November 2018  | Basic Life Support Obstetrics, Hamad Medical Centre, Qatar  |
| November 2018  | Crucial conversations, Sidra Medicine, Qatar  |
| November 2018  | ACGMEI Faculty Development Workshop- Assessment methods for residency programs, Sidra Medicine, Qatar |
| October 2018   | ASM Indian Society of Anesthesiologists, Gujarat, India   |
| September 2018 | Association of Obstetric Anesthesiologists, Annual Scientific Meeting, AOA, Jodhpur, India            |

### ADDITIONAL TEACHING

- Simulation instructor- I am a trained simulation instructor and conduct workshops worldwide both on technical and nontechnical skills. I have personally delivered more than 300 simulation sessions. Most patient safety programs advocate this strongly.
- Mindfulness in Anesthesiology
- ACLS instructor- Recently recertified
- Ministry of Public Health accredited CME speaker
- Faculty of Weill Cornell Medical College- This involves training and teaching medical students, lectures in Grand rounds, and availability for OSCE examinations.
- Bedside teaching to allied health care and MOPH approved CME

### OTHER INTERESTS AND SKILLS

- I am fluent in English, Hindi, Gujarati, Kannada, and Tamil and I am learning Arabic
- Meditation/Yoga
- Swimmer
- Keen trekker- **Everest Base Camp trek October 2018**

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