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## EDUCATION

### MBBS

Jawaharlal Nehru Medical College, Aligarh Muslim University / Aligarh, Uttar Pradesh, India / 2002

### MASTERS IN SURGERY (MS) GENERAL SURGERY

Jawaharlal Nehru Medical College / Aligarh, Uttar Pradesh, India / 2007

### INTERNATIONAL FELLOWSHIP TRAINING PROGRAM IN THORACIC SURGERY

Seoul National University Bundang Hospital / Bundang, Seoul, South Korea / 2014

### CERTIFICATION AS ROBOTIC CONSOLE SURGEON

Vattikuti Academy and Training Institute of Robotic Surgery / Chennai, India / 2012

### CERTIFICATION IN ROBOTIC THYROID SURGERY

Yonsei University / Seoul, South Korea / 2014

### OBSERVING FELLOWSHIP IN MINIMALLY INVASIVE THORACIC SURGERY

Shanghai Chest Hospital / Shanghai, China / 2015

### TRAINING IN MINIMALLY INVASIVE ESOPHAGECTOMY AT ESTS SCHOOL MINIMALLY INVASIVE ESOPHAGECTOMY AND ANASTOMOSIS COURSE

European Society of Thoracic Surgeons School / Rigshospitalet, Copenhagen, Denmark / 2018

### Member of European Society of Thoracic Surgeons (ESTS)

### Member of Society of Thoracic Surgeons, USA

### Member of International Association for the Study of Lung Cancer (IASLC)

### Member of Associations of Surgeons of India (ASI)

### Member of Society of Endoscopic and Laparoscopic Surgeons of India (SELSI)

### Member of Indian Society of Trauma & Acute Care

### Founder Trustee - Lung Care Foundation of India

## LINKS

### Personal Website:

<http://www.drbelalbinasaf.com>

### NGO Website:

<http://lcf.org.in>

## SKILLS

Thoracic Surgery

Video-Assisted Thoracic Surgery

Robotic Thoracic Surgery

- **Dedicated Thoracic Surgeon** with 13 years of experience proficient in all Thoracic Surgery Procedures specially **Minimally Invasive Thoracic Surgery** including **VATS and Robotic Thoracic Surgery**.

- Committed to achieving the best possible outcome for each and every patient.

- Strong background in handling large caseloads and working in high-pressure environments without sacrificing quality of care.

- Experienced in Teaching and Research with 35 publications in peer reviewed journals and books.

- Powerful Oratory & Presentation skills

## WORK EXPERIENCE

### Medanta - The Medicity

Dec 2020 - Present  
Gurgaon, Haryana

### ASSOCIATE DIRECTOR, INSTITUTE OF CHEST SURGERY, CHEST ONCO SURGERY & ROBOTIC CHEST SURGERY

Medanta - The Medicity, Gurugram is a 1250 bed Multi specialty hospital in India. I along with my colleagues have established the Institute of Chest Surgery, Chest Onco-Surgery & Robotic Chest Surgery which is the country's largest Thoracic Surgery Department offering state of the art care for all thoracic surgical patients.

I am involved in providing comprehensive treatment options for all ailments and diseases related to the Lungs, Trachea & Bronchus, Pleura, Mediastinum, Esophagus, Chest wall, and Diaphragm.

I am specially interested in Robotic Thoracic Surgery and holds the country's largest experience in Robotic Thoracic surgery - including Robotic Thymectomy for Myasthenia Gravis and Thymoma, Robotic Mediastinal tumour surgery, Robotic Esophagectomy and Enucleation of Esophageal leiomyoma and Robotic Lung Resection. I also for the first time in India did the Robotic Subxiphoid Thymectomy.

### CONSULTANT THORACIC, THORACOSCOPIC & ROBOTIC SURGEON

At Sir Ganga Ram Hospital, New Delhi, I was involved in setting up of the Department of Thoracic Surgery together with Prof. Dr. Arvind Kumar.

- Developed SOPs for the New Department

- Trained the selected General Nursing Staff to become Specialty Nurse Co-ordinators in Thoracic Surgery who are now involved in all aspects of patient management from pre-admission assessment and pre-operative preparation to post operative and follow-up care.

- **Developed the Minimally Invasive Thoracic program that included the entire range of Thoracic Procedures both VATS and Robotic.**

- **Developed Techniques for various Robotic Thoracic Surgical Procedures** including **Robotic Lobectomy, Robotic Esophagectomy Robotic Mediastinal and Diaphragmatic Surgeries.**

- Developed the technique of **Sub-Xiphoid Robotic Thymectomy** and was the **first person to operate using this technique in India.**

- Played an Instrumental Role in development of Video Assisted Thoracic Surgery Program at Sir Ganga Ram Hospital and have independently performed **nearly 300 VATS lobectomies for various lung pathologies** both benign and malignant.

- I am one of the **very few surgeons in the country who can perform Extra Pleural Pneumonectomy for Mesothelioma.**

- Together with Prof. Arvind Kumar, I have been instrumental in the development of the India's first DNB (Thoracic Surgery) Super Speciality Degree program at The Ganga Ram Institute of Post Graduate Medical Education and Research. I have been a Guide or Co-Guide for 6 DNB (Thoracic Surgery) Theses.

- Conceptualised and conducted several outreach programs as CMEs for physicians and Surgeons.

- Actively involved in teaching of DNB (Thoracic Surgery) Residents.

- Published several articles on different aspects of Thoracic Surgery.

### Sir Ganga Ram Hospital, New Delhi

Mar 2012 - Nov 2020  
New Delhi, India

### ATTENDING CONSULTANT (THORACIC SURGERY)

As an Attending Consultant in Thoracic Surgery, I was responsible for the overall care of Thoracic Surgical Patients.

- Diagnosed patients, evaluated tests, and provided proper treatment.

- Developed special interest in management of Lung Cancer Patients.

### Flt. Lt. Rajan Dhall Fortis Hospital, Vasant Kunj, New Delhi

Oct 2011 - Feb 2012  
New Delhi, India

### REGISTRAR, GENERAL SURGERY AND TRAUMA

I was selected for the Post of Registrar, Department of Surgical Disciplines at All India Institute of Medical Sciences, New Delhi, through an All India Level Merit Examination in which I secured 10th rank.

- At AIIMS, New Delhi I was responsible for management of patients in General Thoracic Surgery under the guidance of Prof. Dr. Arvind Kumar.

- I was also involved in the management of trauma patients at India's Apex Trauma Centre (Jai Prakash Narain Apex, Trauma Centre, AIIMS, New Delhi). I am a trainer in ATLS and achieved the ATLS Instructor position during my stay here. I was exposed to a wide variety of General Thoracic Surgical cases including Open, VATS and Robotic.

- Was involved in Undergraduate and post graduate teaching.

### All India Institute of Medical Sciences, New Delhi

Oct 2008 - Oct 2011  
New Delhi, India

### CLINICAL REGISTRAR, SURGERY

I was actively involved in the overall management of surgical patients as a Registrar. I was responsible for

1. Attending patients in the out-patient clinics.
2. Planning and preparing patients for elective surgeries.
3. Management of patients presenting as emergency surgical cases once a week.
4. Taking morning and evening rounds of patients admitted in the wards.
5. Teaching undergraduates (MBBS) and Post Graduate (MS Gen. Surgery) Students

### Jawaharlal Nehru Medical College, Aligarh Muslim University

Jun 2007 - Oct 2008  
Aligarh, Uttar Pradesh

## PUBLICATIONS

Oct 2007 - Oct 2020

### Journal Articles (Published)

1. **Evaluation of scrotal complaints by Color Doppler Ultrasonography** – The Surgery - Official journal of U.P. Chapter of the Association of Surgeons of India. Vol 17, number 22, November 2007, 10-19.

2. **Multivesicular mediastinal hydatid cyst presenting with left recurrent and phrenic nerve palsy.** Rashid M, Zafar Abbas S, Ahmad I, bin Asaf B, Faizan MA. JBR-BTR. 2008 Jul-Aug;9(14):155-7

3. **Robotic adrenalectomy for a large right adrenal tumour.** Arvind Kumar, Belal Bin Asaf, Roman Dutta. Journal of Robotic Surgery December 2013, Volume 7, Issue 4, pp 389-391.

4. **Thoracoscopic ligation of thoracic duct for spontaneous chylothorax.** Kumar A, Bin Asaf B, Chugh K, Talwar N. Indian Pediatr. 2013 Aug;50(8):796-8.

5. **Robotic lobectomy: The first Indian report.** Kumar A, Asaf BB, Cerfolio RJ, Sood J, Kumar R. J Min Access Surg 2015;11:94-8

6. **Robotic thoracic surgery: The state of the art.** Kumar A, Asaf BB. J Min Access Surg 2015;11:60-7

7. **Robotic thymectomy for myasthenia gravis with or without thymoma-surgical and neurological outcomes.** Kumar A, Goyal V, Asaf BB, Trikha A, Sood J, Vijay CL. Neurol India. 2017 Jan-Feb;65(1):58-63.

8. **Robotic excision of paraesophageal bronchogenic cyst in a 9-year-old child.** Asaf BB, Kumar A, Vijay CL. J Indian Assoc Pediatr Surg. 2015 OctDec;20(4):191-3.

9. **Morphological spectrum of mediastinal lesions with special emphasis on evaluation of needle biopsy: An experience from a tertiary care hospital.** Aggarwal R, Rao S, Chopra P, Bhalla S, Vijay CL, Asaf BB, Kumar A. Indian J Med Res. 2016 Oct;14(4):544-551.

10. **Thoracoscopic removal of monostotic fibrous dysplasia of rib.** Puri, H., Asaf, B.B., Vijay, C.L. et al. Indian J Thorac Cardiovasc Surg (2017) 33: 179.

11. **Intraoperative Forcign Body Removal and repair of bronchus intermedius following injury during failed bronchoscopy retrieval.** Asaf BB, Vijay CL, Bishnoi S, Dua N, Kumar A. Lung India. 2017 MarApr;34(2):182-184.

12. **Video-assisted thoracoscopic surgery for pulmonary aspergilloma.** Kumar A, Asaf BB, Puri HV, Lingaraju VC, Siddiqui S, Venkatesh PM, Sood J. Lung India. 2017 Jul-Aug;34(4):318-323.

13. **Resection and anastomosis for benign tracheal stenosis: Single institution experience of 18 cases.** Kumar A, Asaf BB, Puri HV, Abdellateef A. Lung India. 2017 Sep-Oct;34(5):420-426.

14. **Thoracoscopic Decortication of Stage III Tuberculous Empyema Is Effective and Safe in Selected Cases.** Kumar A, Asaf BB, Lingaraju VC, Yendamuri S, Palle MV, Sood J. Ann Thorac Surg. 2017 Nov;104(5):1688-1694.

15. **Video-assisted thoracoscopic surgery lobectomy: The first Indian report.** Kumar A, Asaf BB, Puri HV, Sharma MK, Lingaraju VC, Rajput VS. J Minim Access Surg. 2018 Jan 10.

16. **Two rare complications in a single patient of lung cancer: Radiation induced spontaneous esophageal perforation and aortic rupture and their successful management.** Palle MV, Puri HV, Asaf BB, Kumar A. Ann Thorac Med 2019; 14: 213-5.

17. **Microbiological Profile of Tubercular and Non-Tubercular Empyema and Its Impact on Clinical Outcomes: A Retrospective Analysis of 285 Consecutively Operated Cases.** Palle MV, Asaf BB, Kumar A, Puri HV, Vijay CL, Bishnoi S. Lung India. 2020; 37: 389-93

18. **Robotic diaphragmatic plication for emphysema: A retrospective analysis of efficacy, safety, and feasibility.** Asaf BB, Gopinath SK, Kumar A, Puri HV, Palle MV, Bishnoi S. Asian Annals of Endoscopic Surgery. Asian Journal of Endoscopic Surgery.

19. **A rare disease mimicking lung cancer.** Gopinath SK, Palle MV, Dhamija A, Puri HV, Asaf BB, Kumar A. Indian Journal of Tuberculosis.

20. **Surgical Intervention is Safe, Feasible and Effective in Tubercular Tracheo-Bronchial Stenosis.** Palle MV, Asaf BB, Puri HV, Bishnoi S, Mundale VV, Kumar A. Lung India.

21. **Carinal Resection and Reconstruction for Carinal-bronchial Neoplasms—Surgical Outcomes of 20 Consecutively Operated Cases.** Palle MV, Puri HV, Asaf BB et al. Indian J Surg Oncol (2020).

22. **Chylothorax - Modalities of management and outcomes: A case series.** Palle MV, Puri HV, Asaf BB, Bishnoi S, Yadav A, Kumar A. Lung India

23. **Superior Vena Cava Resection in Locally Advanced Thymoma—Surgical and Survival Outcomes.** Kumar A, Palle MV, Asaf BB et al. Indian J Surg Oncol (2020). <https://doi.org/10.1007/s13193-020-01204-5>

24. **Minimal Access Surgery for Thymoma.** Kumar A, Asaf BB, Palle MV et al. Indian J Surg Oncol (2020). <https://doi.org/10.1007/s13193-020-01208-1>

25. **Successful Video-Assisted Thoracoscopic Management of Right Middle Lobe Torsion: A Rare Complication of Right Upper Lobectomy. A Report of Two cases.** Palle MV, Asaf BB, Puri HV, Kumar A. Lung India.

26. **Myasthenia is a poor prognosticator for perioperative outcomes after robotic thymectomy for thymoma.** Kumar A, Asaf BB, Palle MV, Puri HV, Sethi N, Bishnoi S. Eur J Cardiothorac Surg. 2020 Dec 5:ezaa406. doi: 10.1093/ejcts/ezaa406. Epub ahead of print.

27. **Surgical and Oncological Outcomes in Locally Advanced Thymoma.** Kumar A, Palle MV, Asaf BB et al. Indian J Surg Oncol (2020). <https://doi.org/10.1007/s13193-020-01215-2>

28. **Predictors of Anastomotic Complications After Resection and Anastomosis for Tracheal Stenosis.** Indian Journal of Otolaryngology and Head & Neck Surgery

29. **Predictors of Mortality after Surgery for Empyema Thoracis in Chronic Kidney Disease Patients.** Korean Journal of Thoracic and Cardiovascular Surgery.

30. **Factors predicting Surgical Outcomes after Bronchial Sleeve Resection for Traumatic Main Bronchus Transection.** Lung India

31. **Robotic Enucleation of Esophageal Leiomyoma --Technique and Surgical Outcomes.** Journal of Minimal Access Surgery (Accepted for publication)

32. **Does an enhanced recovery after surgery protocol affect perioperative surgical outcomes in stage III tubercular empyema? A comparative analysis of 243 patients.** Palle MV, Tiwari N, Asaf BB, Puri HV, Bishnoi S, Gopinath SK, Kumar A. Asian Cardiovasc Thorac Ann. 2020 Nov 1:218492320966435. doi: 10.1177/0218492320966435.

33. **Endobronchial Carcinoids: Surgical Outcome in 100 Consecutive Patients and Factors Affecting Lung Preservation.** Bishnoi S, Asaf BB, Puri HV, Palle MV, Sharma S, Kumar A. Indian J Surg Oncol (2020). <https://doi.org/10.1007/s13193-020-01248-7>

34. **Lung preservation in Mucoepidermoid Carcinoma of Tracheobronchial tree: A case series.** Bishnoi S, Puri HV, Asaf BB, Palle MV, Kumar A. Lung India. 511-20

35. **Surgical Intervention is Safe, Feasible and Effective in Tubercular Tracheo-Bronchial Stenosis.** Palle MV, Asaf BB, Puri HV, Bishnoi S, Mundale VV, Kumar A. Lung India. ...343-20

36. **Factors Determining Surgical Outcomes After Bronchial Sleeve Resection for Traumatic Main Bronchus Transection.** Palle MV, Asaf BB, Puri HV, Bangera S, Bishnoi S, Kumar A. Lung India. 306-20.

37. **VATS management of primary spontaneous pneumothorax - results in 110 consecutive cases.** Puri HV, Asaf BB, Palle MV, Bishnoi S, Kumar A. Lung India. 453-19

38. **Predictors of Mortality after Surgery for Empyema Thoracis in Chronic Kidney Disease Patients.** Palle MV, Puri HV, Asaf BB, Bishnoi S, Malik M, Kumar A. Korean J Cardiothorac Surg. 2020. TCS-20-111

39. **Video-Assisted Thoracoscopic Surgery: The Preferred Method to Manage Pulmonary Sequestration.** Bishnoi S, Puri HV, Asaf BB, Palle MV, Kumar A. JMAS\_251\_20

40. **Double-lumen endotracheal tube for one lung ventilation in a tracheostomized patient after total laryngectomy.** Naresh Dua, Ashish Khanna, Belal Bin Asaf, Jayashree Sood. Current Medicine Research and Practice. Volume 10, Issue 4, 2020, Pages 174-176. <https://doi.org/10.1016/j.cmrp.2020.07.014>.

41. **Robotic enucleation of oesophageal leiomyoma technique and surgical outcomes.** Asaf Belal Bin, Bishnoi Sukhram, Puri Harsh Vardhan, Palle Mohan Venkatesh, Cerfolio Robert James, Kumar Arvind. DOI: 10.4103/jmas.JMAS\_263\_20

### Chapters in Books

1. **Robotic gastrointestinal Surgery: Status 2012.** Arvind Kumar, Belal Bin Asaf, Tarun Jindal. C.I. Surgery Annual. Volume 19, 2012. (page 1-16)

2. **Robotic Surgery: Current Status.** Arvind Kumar, Belal Bin Asaf, V Balasubramanian, Tarun Jindal. Roshan Lal Gupta's Recent Advances in Surgery Volume 13. 2013. Chapter 1 (page 1-29)

3. **Robotics in Gastrointestinal Surgery.** Arvind Kumar, Belal Bin Asaf. In: Editor P. K. Mishra. Textbook of Surgical Gastroenterology. Jaypee Brothers Medical Publisher (P) Ltd; 1st Edition, 2016. p 1320-1333.

4. **Chapters on Robotic Thymus, Lung, Esophagus and Vascular Surgery.** Arvind Kumar, Belal Bin Asaf. In; Editor Ajit Saxena. Practical Approach to Robotic Surgery. Jaypee Brothers Medical Publishers (P) Ltd; 1st Edition, 2017. p 63-80.

5. **Postoperative Management of Thoracic Surgery Patients: A Surgeon's Perspective.** In; Editors: Sood J, Sharma S, Shikha Clinical Thoracic Anesthesia. Springer. 1st Edition, 2020 p 295-301.

### NATIONAL AND INTERNATIONAL ACHIEVEMENTS

- Won **2nd prize in the competition for best video on Robotic Surgery** at KS Robotic Surgery Video Awards, Robotic Surgery Council Meeting, Vattikuti Foundation at New Delhi, India in 2016.

- Won **The Best Overall Video Presentation Award at The 26th European Society of Thoracic Surgeons (ESTS) Conference** at Ljubljana, Slovenia in 2018.

- **Invited Faculty for VATS Lobectomy at The Asian Thoracoscopic Education Program (ATEP) course** at Perth, Australia in January 2017.

- **Invited Faculty at the ATEP outreach program in Kuala Lumpur, Malaysia** in December, 2019.

- **Conducted Two Cadaveric VATS Lobectomy Workshops** in Collaboration with Ethicon, J&J at Ramaiah Advanced Learning Centre, Bengaluru, Karnataka.

### HOBBIES

- Creative Video Content Generation

- Voluntary Service In The Field Of Health And Education

- Photography

- Travelling