

## Dr. Kumaresh Krishnamoorthy

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Practising Surgeon | Healthcare Entrepreneur | National Mentor | Start-up Founder | Revolutionizing Healthcare Through Collaborative Innovation

## PROFILE

### Clinical Expertise

1. Accomplished Otorhinolaryngologist renowned for **featured in leading media and TV outlets** for surgical skills and clinical acumen with over 20 years of experience.
2. **First collaborative fellow** from AIMS, Cochin to Roswell Park Cancer Institute, USA and Distinguished as the **first Fellow and first Indian** for the Otology & Neurotology Fellowship, University of Cincinnati.
3. Proficient in, **patient education**, delivering crucial information on medical conditions and upcoming surgeries through effective communication channels.
4. Demonstrated **experience and expertise** in conducting complex surgeries like cancer surgeries, skull base procedures microsurgeries and otology implantations like cochlear and bone anchored aids **in tertiary referral hospitals and day care centres**.
5. Extensive experience **operating and training local surgeons in resource-limited international locations** like Tanzania and Iraq, equipping them with essential skills and knowledge for independent performance of complex surgeries.
6. **Integrated innovative technologies** into clinical workflows, with expertise in utilizing LASERS, Coblators, and implantation otology techniques to enhance patient care.
7. Experience in **teaching and mentoring medical students, residents, and healthcare professionals** in my areas of specializations.
8. **Conducted international workshops, CME events, and hands on surgical training** programs in head and neck cancer and skull base procedures earning respect and building networks within the medical community.
9. Established **collaborative teaching programs** with my mentor, Dr. Ravi, Program Director, Otology & Neurotology Fellowship, UC, USA.
10. Participated as a **Visiting Scholar at UCSF**, gaining insights into clinical practices and patient care through immersive research.
11. Actively contributed to papers, presentations, and book chapters, showcasing **expertise in scholarly dissemination**.
12. **Regularly invited as a speaker/faculty** at national and international otolaryngology conferences, sharing expertise in the field.
13. **Recipient of Best ENT specialist award from NDTV Profit**.
14. **Medical advisory and editorial board member of Dovemed, USA and Raxapedia health**.
15. **Distinguished Alumni Honour:** Honoured as a distinguished alumnus of PSG Institutions for exceptional contributions.

### Healthcare Entrepreneur

- Seasoned **docpreneur, innovator, and visionary product developer, blending medical expertise with entrepreneurial skills**.
- **Strong entrepreneurial background** mentoring and guiding incubators, entrepreneurs, and startups, leveraging a deep understanding of patient and healthcare provider challenges.
- **Co-founded a DIPP recognized startup**, leading the way in **developing sustainable healthcare devices and solutions** and **maximized the value of our IPRs**.
- Developed tailored **strategies to address localised healthcare** needs and challenges faced in the Indian context, rather than relying on one-size-fits-all approaches.

- Mentored healthcare entrepreneurs on the pivotal role of **doctors as gatekeepers and key stakeholders**, highlighting **limitations of business-to-consumer (B2C)** models in healthcare.
- **Established collaborations** with internationally **renowned institutes** to develop innovative and scalable healthcare solutions, **prioritizing access, and affordability**.
- **Leveraged knowledge from failed start-up experiences** to understand scalability and funding limitations, government engagement, and knowing when to cease operations.
- Emphasized early communication with healthcare providers post-intellectual property protection, **advocating for product validation prior to seeking investor support**.
- Proficient in **managing the innovation process, from ideation to implementation**, and driving transformative healthcare solutions that address critical challenges.
- Extensive experience in **mentoring and guiding institutes of higher education** incubators, entrepreneurs, and medical colleges, fostering innovation and entrepreneurship.
- **Garnered media recognition for entrepreneurial skills** and the development of innovative, affordable, and patent-protected medical devices.
- As a subject expert, I developed Class II medical devices instead of Class IV, **resulting in cost and time savings, quick global market penetration**, and increased start-up valuation.
- **Implemented innovative healthcare solutions globally** in teaching hospitals, large corporates, and food processing units, showcasing market opportunity identification and impactful product development skills.
- Guided healthcare entrepreneurs on healthcare liability complexities under the Consumer Protection Act (CPA) and importance of enhancing stakeholder value by IPR.
- **National Mentor for Atal Innovation Mission Centres** in prestigious educational institutes like IISER and **BIRAC incubator like BITS, Bionest**.

## EDUCATION

- MBBS, PSG Institute of Medical Sciences & Research, 1989-1995
- MS (ENT), Madurai Medical College, 1996-1999
- Fellow, Head & Neck Surgery, Amrita Institute of Medical Sciences, Oct. 2003-June 2004.
- Fellow in Head & Neck Surgery, Roswell Park Cancer Institute, July 2004 – July 2005
- Fellow in Otolaryngology & Neurotology, University of Cincinnati, Sept 2005 – Aug 2006.

## PROFESSIONAL EXPERIENCE

- Senior Resident in Otolaryngology, **JIPMER**, 1999–2000
- Fellow, Head & Neck Surgery, **AIMS, Cochin**, 2003-2004
- Fellow, Head & Neck Surgery, **RPCI, Buffalo, USA**, 2004-2005
- Fellow, Otolaryngology & Neurotology, **UC, Cincinnati**, 2005-2006
- Senior Consultant in Otolaryngology, **Apollo Hospitals**, Bangalore, 2006–2012
- Senior Visiting Consultant in Otolaryngology, **Sanitas Hospitals, Tanzania**, 2012-2015
- Senior Visiting Consultant in Otolaryngology, **Baghdad, Karbala, Basra**, 2013-2020.
- Senior Consultant in Otolaryngology, **Fortis Hospitals**, Bangalore, 2012–2015
- Senior Consultant in Otolaryngology, **Dr Kumaresh ENT Clinic**, 2015–Present
- Senior Consultant in Otolaryngology, **Apollo Spectra Hospitals**, 2015–Present
- Honorary Faculty in Otolaryngology, **Bangalore Medical College**, 2017–2019
- Senior Consultant in Otolaryngology, **Manipal Hospitals**, Bangalore, 2017–Present
- Partner and Chief Medical Officer – **AUM Medtech**, DIPP recognized Startup.
- National Mentor - **Atal Innovation Mission**, since inception
- Healthcare/Healthtech Mentor - **BITS BIRAC BioNEST Goa, AIC, IISER, Pune, Wadhvani Foundation and C.V. Raman Global University**.

- Appointed Member, Board of Governors (Past) - Entrepreneurial & Innovation Council, **Bharathiar University, 2020-2022.**
- Past Director Operations and Board Member – **Waste2Watts**, renewable energy startup company, 1998-2022.
- Past CEO, **Deep Healthtech Venture.** 1998-2022.

#### **PAPERS AND RESEARCH PRESENTED AND BOOK CHAPTERS**

1. Joshi, Pratik & KS, Ranjth & Masilamani, Vijayahree & Alike, Jahnvi & K, Suresh & Krishnamoorthy, Kumaresh. (2020). Optic disc localization using interference map and localized segmentation using grab cut. *Automatika.* 62. 1-10. 10.1080/00051144.2020.1807790.
2. Krishnamoorthy K, Samy RN, Shoman N. The challenges of starting a cochlear implant programme in a developing country. *Curr Opin Otolaryngol Head Neck Surg.* 2014 Oct;22(5):367-72.
3. Esthesioneuroblastoma: Review of 25 cases." Thesis submitted to Roswell Park Cancer Institute, Buffalo, USA. 2005
4. A comprehensive Study of Penetrating Neck Injuries." Thesis submitted to the DR.M.G.R.Medical University, Chennai.

#### **BOOK CHAPTERS:**

1. Krishnamoorthy, K. (2013). Sarcoidosis. In: Kountakis, S.E. (eds) *Encyclopedia of Otolaryngology, Head and Neck Surgery.* Springer, Berlin, Heidelberg.

**More selected publications and contributions:** <https://drkumaresh.com/academic-contributions-papers-research-and-book-chapters/>

#### **SELECTED SPEAKER AND FACULTY ENGAGEMENTS**

- Keynote Speaker on Head and Neck Surgery, International Conference, Dubai.
- International Faculty, Second International Otolaryngology Conference, Iraq.
- National Faculty, Paediatric Sleep Apnea Conference, Cochin.
- National Faculty, Federation of Head and Neck Oncologists.
- National Faculty on Digital Health, IEST, Shibpur.
- Regular National Faculty at AOICON.
- Guest Lecture on Importance of IPR delivered online to NKP Salve Institute of Medical Sciences and later to PIMS, Pondicherry
- Invited Speaker for Grand Rounds, AIIMS, Jodhpur
- Invited Speaker on Business Planning for Healthcare Start-ups, BITS BIRAC BioNEST.

**I would have delivered more than 100 talks at various forum globally, few more selected Speaker and Faculty engagements can be found here:** <https://drkumaresh.com/selected-speaker-faculty-engagements/>

#### **IN THE NEWS**

1. Largest Parathyroid Surgery in India - Identifying missed diagnosis and giving a new lease of life to the patient - Full-page profile in DNA Newspaper.
2. Bravo! City Docs Save Iraqi General's Face - Correcting misdiagnosis and saving the face of an Iraqi General - Front-page profiling - Bangalore Mirror.
3. Ear Pain Can Be Life-Threatening - From near-death to a normal life: treating a rare condition highlighted - DNA Newspaper.
4. Rarest Branchial Fistula Surgery, second in India - Successful operation on a 2-year-old profiled in DNA.

5. A Patient's Long Wait for Rare Surgery - Overcoming a 15-year wait due to complex anatomy and want of skills and needed infrastructure - profiled in DNA.
6. Meet the Bengaluru doc making critical healthcare equipment cheaper for patients - Profiled in News Minute.
7. This Bengaluru Doctor is Disrupting the Medical Device Sector in India - Make in India - Profiled in Healthcare Executive regarding my intention to stop Medical Device Imports.
8. Bengaluru Doctor's Life-Saving Machine Reduces Costs from Rs 5 Lakh to Rs 22K! - Profiled in Better India under the Innovation Medicine category.

My extensive medical expertise, renowned surgical skills in undertaking complex procedures, entrepreneurial prowess, and innovative medical devices and informative medical articles have garnered significant media recognition and featured in esteemed national newspapers, prominent television outlets, and international online platforms.

**Few more selected mentions can be found here:** <https://drkumaresh.com/news-articles-profiling-and-success-stories/>

### **AWARDS AND RECOGNITIONS**

1. Faces in the Crowd - Featured profiling by Discover Bangalore, highlighting notable personalities in Bangalore.
2. Awarded as Best ENT Surgeon by NDTV Profit in recognition of exceptional expertise and contributions.
3. Distinguished Alumni of PSG Institutions - Recognized for outstanding achievements and contributions to the field.
4. Invited as an International Special Guest at the Graduation Ceremony of Otolaryngology Residents in Cincinnati.
5. Played a pivotal role in establishing the Cochlear Implant Program at Bangalore Medical College and Victoria Hospital, earning appreciation from the Health Minister.
6. Recognition from Dr. Kiran Mazumdar Shaw, Chairman of Biocon, for developing an affordable Medical Device that benefits patients.

I have been honoured with prestigious awards and recognitions, these accolades have come with various perks, including expensive gifts and paid holidays, highlighting the appreciation and admiration from those I have served. In addition to medical achievements, I have also been recognized for my entrepreneurship and affordable yet innovative medical devices.

**Few selected ones available here:** <https://drkumaresh.com/category/awards/>

### **CURRENTLY ONGOING PROJECTS**

The following collaborative projects are being undertaken in conjunction with IITM, IIITDM, NIT's, Railway Hospital, PSG Medical College, Kilpauk Medical College, and Dr Kumaresh ENT Clinic. Further collaborations are also planned with institutions such as AIIMS and Bangalore Medical College.

1. AI for early detection of risk factors for chronic diseases using Fundus Images.
2. AI for early detection of Breast Cancers.
3. AI for early detection of Renal Stones.
4. IoT enabled Smart Anaphylactic detector.
5. IoT enabled Patient Monitoring System.
6. Smart Stethoscope.
7. Smart IoT enabled Hearing Aid.
8. Early diagnosis of Oral and Laryngeal Cancers using AI.

Apart from these few more are being deliberated and undergoing feasibility studies.

## **INTELLECTUAL PROPERTY PORTFOLIO**

The following intellectual property assets have been developed and are part of my portfolio:

- UVC Disinfection Bot for Hospital/Hospitality - Design patent received.
- UVC Mobile disinfection unit for Airlines - Included under the design patent.
- UVC Handy - Utility patent published, awaiting final patent certificate.
- Real-time remote viewing Video Laryngoscope - Design and utility patent published, awaiting final patent certificate.
- Natal Video Laryngoscope - Design and utility patent included in the above.
- US patent for UVC Bot - Published, awaiting final patent certificate.
- UVC Cart for Airline Baggage - Class 11 TM received and
- UVC Box - Class 11 TM received.
- IoT enabled Patient Monitoring System - Patent filing initiated.
- IoT enabled Anaphylactic detector - Patent filing initiated.
- Smart Stethoscope - Patent being filed.