

Dr Kunal Ajay Patankar

MBBS, MD (General Medicine), DrNB (Cardiology)

Interventional Cardiologist & Structural Heart Specialist · Heart and Vascular SuperSpeciality Hospitals

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Medical registration MMC2016030430 · Maharashtra Medical Council

PROFILE

Interventional cardiologist practising coronary and structural heart intervention — complex and calcified coronary disease, intravascular imaging and physiology, and transcatheter valve therapy. Trained in internal medicine before cardiology, and in cardiology at a tertiary referral centre. Builds and ships the clinical software he uses, and teaches advanced cardiac therapy to physicians and prevention to the public.

PROFESSIONAL EXPERIENCE

Interventional Cardiologist

May 2025 – present

Heart and Vascular SuperSpeciality Hospitals — Dadar, Mumbai

- Diagnostic and interventional coronary procedures, including complex and calcified disease.
- Intravascular imaging (OCT, IVUS) and coronary physiology to guide revascularisation.
- Structural heart intervention as part of the hospital's Heart Team.
- Outpatient cardiology, echocardiography and stress testing.

Senior Resident, Cardiology

May 2022 – April 2025

P. D. Hinduja National Hospital and Medical Research Centre — Mumbai

Held concurrently with DrNB (Cardiology).

- Cath lab, CCU and echocardiography at a tertiary referral centre.
- Diagnostic cardiac catheterisation to assess ventricular function, valves and coronary arteries.
- Treadmill and dobutamine stress testing, with interpretation and reporting.
- Case presentations at institutional faculty meetings and national conferences.
- Patient counselling on secondary prevention — lifestyle modification and adherence.

Resident Doctor, General Medicine

May 2018 – September 2021

N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital — Nagpur

Held concurrently with MD (General Medicine).

- Wards, ICU and emergency medicine, with multidisciplinary care of complex admissions.
- Bedside procedures: endotracheal intubation, central venous catheterisation, lumbar puncture, bone marrow aspiration and biopsy.
- Post-operative monitoring, transfusion, and management of ventilated patients.
- Recognition and escalation of time-critical presentations.

Medical Officer

2015 – 2016

Employees' State Insurance Corporation (ESIC) — Mumbai

- The compulsory year of state service following an MBBS from a government medical college. Completed in full.
- General outpatient care, referral to specialist services, and departmental compliance.

EDUCATION & TRAINING

MBBS

2009 – 2015

Grant Government Medical College & Sir J.J. Group of Hospitals — Mumbai

MD (General Medicine)

2018 – 2021

N.K.P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital — Nagpur

CERTIFICATIONS

- Basic Life Support (BLS) — Recertified on the standard three-year cycle.
- Advanced Cardiovascular Life Support (ACLS) — Recertified on the standard three-year cycle.

CLINICAL SKILLS & PROCEDURES

- | | |
|---|---|
| • Diagnostic cardiac catheterisation | • Vascular access techniques |
| • Coronary angiography and angioplasty | • Transcatheter aortic valve replacement (TAVR) |
| • Complex and calcified coronary intervention | • Echocardiography |
| • Rotational atherectomy | • Treadmill and dobutamine stress testing |
| • Orbital atherectomy | • Nuclear perfusion imaging |
| • Intravascular imaging — OCT and IVUS | • Heart failure management |
| • Coronary physiology — FFR / RFR | |

RESEARCH

Principal Investigator

One investigator-initiated, open-label trial.

Co-Investigator

Multiple ongoing trials.

Trials are named here only once their registration is public and, where applicable, the sponsor permits disclosure. Details available on request.

What 40 patients taught me about clots in the brain's veins

2021

MD (General Medicine) dissertation · N.K.P. Salve Institute of Medical Sciences & Research Centre, Nagpur

“Clinical Profile and Radio-Imaging Features in Patients of Cerebral Venous Thrombosis at a Tertiary Care Centre: A Cross-Sectional Study”

Hospital-based cross-sectional observational study; n = 40 · Guide: Dr. Neelima R. Saoji

<https://drkp.cc/research/cerebral-venous-thrombosis>

Finding the diabetic heart in trouble while the ejection fraction still looks normal

2024

DrNB (Cardiology) dissertation · P. D. Hinduja National Hospital and Medical Research Centre, Mumbai

“Analysis of Myocardial Work by Non-invasive Left Ventricular Pressure-Strain Loop in Patients With Type 2 Diabetes Mellitus”

Single-centre case-control study, age- and sex-matched; n = 120 · Guide: Dr Sudhir Pillai, Consultant Cardiologist

<https://drkp.cc/research/myocardial-work-diabetes>

PUBLICATIONS

Jignesh Rajguru, Kunal Patankar, Ramakrishna Shenoi, Rajiv Desai, Kalyani Puntambekar, Shreyash Khadse. Synchronous presentation of cutaneous CD30-positive large T-cell lymphoma and glomangioma of the upper lip: a case report. *Archives of Craniofacial Surgery* 2026;27(2):94–99.

doi.org/10.7181/acfs.2025.0059

Ramesh Mundle, Kunal Ajay Patankar, Jignesh Rajguru, Mohan Paliwal. Primary thyroid lymphoma with double expression of MYC and B-cell lymphoma-2 gene. *Indian Journal of Case Reports* 2021;7(5):217–219.

doi.org/10.32677/IJCR.2021.v07.i05.014

Ramakrishna Shenoi, Vrinda Kolte, Pranav Ingole, Jignesh Rajguru, Jui Karmarkar, Sunil Kolte, Kunal Patankar. Management of Oral Myiasis Caused by *Chrysomya bezziana* — A Case Series. *Annals of Maxillofacial Surgery* 2020;10(2):521–524.

doi.org/10.4103/ams.ams_177_20

BOOK CHAPTERS

Advances & Revolutions in Heart Failure (ARHF): A Textbook of Cardiology

eds. HK Chopra, Navin C Nanda, Jagat Narula et al. · Jaypee Brothers Medical Publishers · 1st edition, 2024 · ISBN 978-9356965362

- Ch. 14 — Reverse Cardiac Remodeling: Role of Angiotensin Receptor–Neprilysin Inhibitor. Chandrashekhar K Ponde, Kunal A Patankar.
- Ch. 98 — Reverse Cardiac Remodeling: Role of Beta-blockers. Chandrashekhar K Ponde, Kunal A Patankar.

Cardiology Update 2023

editor-in-chief Pratap Chandra Rath; co-editors Manoj Kumar Agarwala, Sundar Chidambaram, Shabbir Ali Shaik · Jaypee Brothers Medical Publishers · 1st edition · ISBN 978-9356964372

- Ch. 8 — Point-of-care Cardiac Ultrasound: Current Capabilities and the Cardiologist's Perspective. Chandrashekhar K Ponde, Mufaddal Lunawadawala, Mayuri Mhatre, Kunal Patankar.

PRESENTATIONS

Orbital atherectomy and the intimal stripping OCT found first 8–10 August 2025
8th Imaging & Physiology Council of India (iPCI) Conference · Trident Hotel · Hyderabad

Transcatheter mitral repair in a breathless 78-year-old 11–13 September 2025
India Valves 2025 · Jaipur

Zero-contrast PCI in chronic kidney disease 2024
Institutional faculty meeting · P. D. Hinduja National Hospital and Medical Research Centre · Mumbai

Upper GI bleeding after angioplasty, on dual antiplatelet therapy 15 June 2024
Gastroenterology and Cardiology at Crossroads · Mumbai
with Dr Chandrashekhar K. Ponde and Dr Philip Ibrahim

Isoprenaline-induced tachycardiomyopathy after mitral valve replacement 2023
Academy of Cardiology (AOC) annual meet · Meril · Vapi

PUBLIC & PROFESSIONAL EDUCATION

Standing programmes rather than one-off dates.

- Cardiac evaluation in older adults — Rotary club sessions, Mumbai.
- Before you join the gym — the cardiac check nobody asks for — Gymkhana member sessions, Mumbai.
- Advanced cardiac therapies, for the people patients call first — Awareness sessions for insurance professionals, Mumbai.
- What's new in interventional and structural cardiology — CME sessions for physicians and general practitioners, Mumbai.
- Preventive cardiology in the community — Health camps, Mumbai.

HEALTH-TECH PRODUCTS

Clinical software conceived, designed and shipped by Dr Patankar.

TAVI123 — In clinical use

A governance system that runs the entire TAVI programme — from screening to follow-up.

tavi123.com/showcase

DSE123 — In clinical use

A dobutamine stress echo governing system — protocol, safety and reporting in one flow.

dse123.com/dobutamine-stress-echo

Clinidict — In clinical use

Medical-grade dictation that understands cardiology vocabulary out of the box.

clinidict.com

SpeedRX — Active development

A medical AI assistant that lives where India already is — on WhatsApp.

speedrx.in

LyFeOS — Active development

An operating system for high achievers — log your days, see your trends, run your life on data.

lyfeos.in

BEYOND MEDICINE

Where the software came from. These are the years between MBBS and MD, and the practice that has run alongside medicine since.

Software & cloud

- Web and application development — Node.js, Python, WordPress
- Amazon Web Services — Lambda, API Gateway, SageMaker, Bedrock, SQS, S3
- Applied AI — assistants and agents for clinical task automation and workflow

Ventures & intellectual property

- Music production, publishing and licensing — Spotify-verified label, Big Lazy Entertainment
- Company formation and branding — Heartstrings and Braces LLP
- Trademark registration and portfolio management
- Consumer product development and sales — a personalised orthodontic toothpaste

Media

- Social media strategy and content production
- Video production and on-camera presentation for e-learning

COMMUNITY & LEADERSHIP

Co-founder

2012

Bachpaan

A student-led non-profit supporting underprivileged paediatric patients inside the hospital. Funded by monthly student contributions; reached 149 children over two years.

Head Organising Secretary

2015

We Run For Her — Pink Ribbon Marathon

Breast cancer awareness event at Marine Drive, Mumbai. Ran event logistics and liaised with government authorities.

Sports Secretary (elected)

2014

Kurukshetra, the annual institutional sports festival

Planned and ran the festival end to end.

Cultural Secretary (elected)

2013

Astitva, the annual institutional cultural festival

Planned and ran the festival end to end.

DISTINCTIONS

- Ranked first among the eight postgraduates in his MD (General Medicine) batch (2021)

LANGUAGES

English · Hindi · Marathi · Gujarati

INTERESTS

- Team sports.
- Animated films — for the message under them, that anything is possible. Turbo put it best: “no dream is too big and no dreamer too small.”
- Travelling with his wife. A mountain person in a sea-side city; North India above all.
- Adventure sports — whatever a place happens to offer.