

JAY GAJJAR, M.B.B.S.

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PROFESSIONAL SUMMARY

A compassionate and dedicated medical professional eager to contribute to meaningful healthcare research. With extensive clinical experience and a passion for advancing medical knowledge, I aim to support innovative research initiatives and further my expertise while improving patient care through evidence-based practices. My commitment to lifelong learning and collaboration with multidisciplinary teams ensures that I can make a significant impact in both clinical and research environments.

EDUCATION

Doctor of Medicine (M.B.B.S.)

Smt. N.H.L. Municipal Medical College, India
July 2012 – March 2018 | Graduated: June 2018

USMLE Examination Scores (All passed on first attempt):

Step 1: 222 (December 2019)
Step 2 CK: 232 (June 2022)
Step 3: 206 (April 2024)

CERTIFICATIONS

Fundamentals of Clinical and Translational Science (FunCaTS)

Mayo Clinic
May 2025

Introduction to the Principles and Practice of Clinical Research (IPPCR)

National Institutes of Health (NIH)
2024–2025

Certified Food Safety and Security Clearance for VVIP Catering

Hon'ble Prime Minister of India
October 2022

Training of Trainers (ToT) – School Health Program

Ayushman Bharat State Institute of Health & Family Welfare, Gujarat
September 2022

Training of Trainers (ToT) – IUCD and PPIUCD

State Institute of Health & Family Welfare, Gujarat
November 2022

Training in Injectable Contraceptives

Divisional Training Center, Bavla, Ahmedabad
May 2022

CLINICAL EXPERIENCE (UNITED STATES)

1. Clinical Extern – Cardiology

Case Western Reserve University Hospital | Cleveland, OH

November 2024 – January 2025

- Completed comprehensive inpatient and outpatient cardiology externship under **Dr. Trevor Jenkins, MD**
- Managed 4-5 patients daily including detailed chart reviews, history taking, and physical examinations using EPIC EMR
- Delivered clinical presentations on acute coronary syndrome, cardiomyopathy, and valvular heart disease
- Presented complex case discussions on heart failure, arrhythmias, and post-MI complications including Dressler syndrome

2. Clinical Extern – Pulmonary & Critical Care

Henry J. Carter Specialty Hospital | Brooklyn, NY

September 2024

- Completed specialized rotation in long-term acute care with **Dr. Joseph R. Mazza, MD**
- Observed advanced procedures including tracheostomy care, gastric tube insertions, and arterial blood gas sampling
- Collaborated with multidisciplinary teams managing ventilator-dependent patients requiring prolonged mechanical ventilation
- Participated in complex case analysis including tracheostomy complications and mechanical ventilation management

3. Clinical Extern – Cardiology

Northwell Long Island Jewish Medical Center | Long Island, NY

August 2024

- Completed inpatient cardiology rotation under **Dr. Avneet Singh, MD**
- Observed advanced cardiac procedures: cardiac catheterization, pericardiocentesis, and transesophageal echocardiography
- Developed proficiency in ECG interpretation, ASCVD risk assessment, cardiac MRI, nuclear stress testing, and Holter monitoring
- Contributed to diagnostic workup of rare presentations including carcinoid syndrome with cardiac manifestations

4. Clinical Extern – Internal Medicine

Dr. Rizwanullah Hameed's Clinic | Brooklyn, NY

June – July 2024

- Provided comprehensive outpatient care focusing on preventive health measures and chronic disease management
- Conducted systematic screenings for depression, cognitive impairment, and fall risk assessment
- Counseled patients on lifestyle modifications for cardiovascular risk reduction in hypertension, hyperlipidemia, and diabetes
- Developed advanced patient communication skills promoting therapeutic relationships and treatment compliance

5. Clinical Extern – Internal Medicine

Robert Wood Johnson University Hospital | Hillsborough, NJ

November 2023 – March 2024

- Provided outpatient internal medicine care under **Dr. Rajendra Kumar Patel, MD**
- Utilized eClinicalWorks EMR for comprehensive documentation, medication reconciliation, and care coordination
- Coordinated preventive health screenings and specialist referrals across multiple specialties
- Presented evidence-based clinical topics including lithium-induced diabetes insipidus and familial cancer syndromes
- Mentored new colleagues in EMR systems and clinical workflows

6. Clinical Extern – Internal Medicine

Mount Sinai Hospital Affiliated Ambulatory Setting | Brooklyn, NY

August 2023

- Conducted comprehensive evaluations for new and established patients under **Dr. Esra Israel, MD**
- Managed both in-person and telemedicine consultations with documentation in Practice Fusion EMR
- Performed COVID-19 testing and specimen collection protocols
- Contributed to diagnosis of complex neurological conditions including Arnold-Chiari malformation

- Participated in quality improvement initiatives to enhance clinic operational efficiency

7. Clinical Extern – Internal Medicine

Prasad Medical Center | Brooklyn, NY

June 2023

- Managed 5-7 patients daily with comprehensive chart reviews and clinical assessments under **Dr. Ankineedu Prasad, MD**
- Served as student coordinator, implementing training programs for EMR systems and referral processes
- Presented specialized topics in nephrology including acid-base disorders and glomerular diseases
- Provided patient education on chronic kidney disease management and dialysis preparation

8. Clinical Extern – Internal Medicine

Corewell Health (Dearborn Program) | Dearborn, MI

April 2023

- Participated in inpatient and outpatient care with multidisciplinary team rounds under **Dr. Abdulhassan Saad, MD**
- Managed 3-4 patients daily with comprehensive documentation in Practice Fusion EMR
- Contributed to substance use disorder education and cannabinoid hyperemesis syndrome diagnosis
- Gained expertise in US healthcare systems, insurance navigation, and rehabilitation program coordination

CLINICAL EXPERIENCE (INDIA)

1. Physician – Internal Medicine

Urban Primary Care Center | Gandhinagar, India

April 2018–January 2023

- Monitored daily progress and conducted comprehensive evaluations for all ICU admissions, including COVID-19 patients during the pandemic
- Performed daily rounds to assess patient progress, provide patient and family counseling, and order appropriate treatments and investigations
- Responded to emergency calls managing critical conditions including myocardial infarction, COPD exacerbation, and acute stroke
- Managed complex medical conditions including acute coronary syndrome, heart failure, diabetic ketoacidosis, and mucormycosis

- Led Code Blue and Code FAST response teams, supervising patients undergoing thrombolytic therapy
 - Collected and analyzed daily arterial blood gas samples and assessed requirements for artificial life support
 - Performed critical procedures including IV-line access, assisted arterial line insertion, and emergency intubation
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RESEARCH EXPERIENCE

Research Collaborator

Research Update Organization | Houston, TX

June 2023 – Present

- Conduct systematic literature reviews and contribute to study design with emphasis on research ethics and methodology
 - Develop abstracts for peer-reviewed submissions utilizing evidence-based research frameworks
 - Apply PICO methodology for research question development and collaborative topic selection
 - Perform comprehensive article screening, quality assessment, and data extraction for meta-analyses
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PUBLICATIONS & PRESENTATIONS

Peer-Reviewed Publications

1. Desai, H.D., Gajjar, J., Chirumamilla, A., Raj, D., Mallyala, S., Enamorado, F.R., Patel, S., Reddy, S.J. "Global Mortality of Ischemic Stroke and its Attributable Risk Factors in 204 Countries, its Territories from 1990-2019: A Benchmarking Analysis From the Global Burden of Disease Study." *International Stroke Journal*, May 2023.

<https://doi.org/10.1177/17474930231192010>

2. Shah, M.P., Attar, B., Patel, S., Gajjar, J., Mallyala, S., Chirumamilla, A., Raj, D., Desai, H.D. "The Statewide Burden of Pancreatitis in the United States Between 1990-2019: Results from the Global Burden of Disease Study 2019." *The American Journal of Gastroenterology*, May 2023.

https://journals.lww.com/ajg/fulltext/2023/10001/s99_the_statewide_burden_of_pancreatitis_in_the.99.aspx

Conference Presentations

1. Mallyala, S., Chirumamilla, A., Raj, D., Gajjar, J., Patel, S., Dekhne, A., Desai, H.D. "Burden of Mortality and Antimicrobial Resistance of Bacterial Pathogens Associated with Lower Respiratory Tract and Other Thorax Infection in United States in 2019: A Systematic Analysis." *IDWeek 2023*, Boston, MA | October 14, 2023.

<https://doi.org/10.1093/ofid/ofad500.2203>

2. Raj, D., Mallyala, S., Chirumamilla, A., Gajjar, J., Patel, S., Desai, H.D. "Burden of Lower Respiratory Tract Infection in United States of America and its Trend from 1990-2019: A Benchmarking Analysis from the Global Burden of Disease Study." *IDWeek 2023*, Boston, MA | October 14, 2023.

<https://doi.org/10.1093/ofid/ofad500.2210>

CORE COMPETENCIES

Clinical Expertise: Preventive Care • Chronic Disease Management • Patient Counseling • Multidisciplinary Team Collaboration

Technical Proficiencies: EPIC • eClinicalWorks • Practice Fusion • ECG Interpretation • Telemedicine • Electronic Medical Records • Quality Improvement

Research Skills: Systematic Reviews • Meta-Analysis • Literature Review • Study Design • Evidence-Based Medicine • Statistical Analysis • Academic Writing