

Curriculum Vitae
Anil Kharga, MBBS

Present Mailing Address

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Medical Education

Institute of Medical Sciences (IMS), Banaras Hindu University (BHU), Varanasi, India ;
09/2013 - 07/2019
Bachelor of Medicine & Bachelor of Surgery (M.B.B.S.), 12/2019

Board Scores

ECFMG Certified, 03/2021

USMLE Step 2 CK: 244, first attempt, 02/2021
USMLE Step 2 CS: Passed, first attempt, 01/2019
USMLE Step 1: 256, first attempt, 10/2017

Visa Status

Non-US International Medical Graduate (IMG); on J1 visa

Membership and Honorary/Professional Societies

American Society of Transplant Surgeons (ASTS), Trainee Member, 06/2022-Present
Society of Interventional Radiology (SIR); Student Member, 1/2019-12/2019

Medical School Awards

Scholarship (heavily subsidized tuition fee) for securing top 10 positions in the medical entrance exam for medical education from

-B.P. Koirala Institute of Health Science (BPKIHS), Dharan, Nepal for securing 1st position; 08/2013.

-Embassy of India for securing 3rd position to study in medical school-Institute of Medical Science, Banaras Hindu University, Varanasi-221005, UP, India; 04/2013.

-Ministry of Education, Kathmandu, Nepal, for securing 9th position; 02/2013.

Certification

ACLS Certified, RC Health Services, Dallas, TX, USA; 01/18/2020; No/ID: 206509677501

BLS Certified, RC Health Services Dallas, TX, USA; 01/15/2020; No/ID:205509576464

PALS certified, Lifesupporters Institute of Health Science, Mumbai, Maharashtra, India; 06/20/2018

ITLS (International Trauma Life Support) certified, Lifesupporters Institute of Health Science, Mumbai, Maharashtra, India; 06/13/2018; No/ID: 271123-33310

HIPAA, online training, 05/2018

OSHA, online training, 05/2018

Back Care/Ergonomics, Fire Safety and Emergency Evacuation, Hazard Communication for Health care, Medicare Compliance: Fraud and Abuse, Bloodborne Pathogens for Healthcare Workers, Hand Hygiene, Patient Rights, Preventing Workplace Violence, Sexual Harassment Prevention, Infection Control for Healthcare Professionals, Electrical Safety for Healthcare, TB Protection for Healthcare Workers, Personal Protective Equipment for Healthcare Workers

Work Experience

02/2022 - Present Average Hours/Week: 60
Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA

Research Fellow in Center for Transplantation Sciences (CT); James Markmann, MD, PhD and Korkut Uygun PhD

- Working on human and animal (rat and swine) liver perfusion experiments.
- Working on rat liver harvesting and hepatocytes isolation, and culture
- Working on pig-to-baboon liver xeno-transplant

03/2020 - 1/2022 Average Hours/Week: 60
Dhanusha Hospital Private Ltd., Janakpur, Dhanusha, Nepal

Medical officer (MO):

-Rotated in the General Surgery department and worked in the outpatient clinic and provided inpatient care, scrubbed in & assisted the consultant/attending in various open abdominal and laparoscopic surgeries like appendectomy, hemorrhoidectomy, inguinal hernia repairs, breast biopsy, mastectomy, sclerotherapy & ultrasound-guided sclerotherapy, laparoscopic cholecystectomy, colon resection, and thyroidectomy.

-Conducted routine admissions, prepared the operating list, put into practice the non-surgical plans of management, care of the post-operative patient, and admission of acutely ill patients when on call.

01/2020-02/2020 Average Hours/Week: 720
University of Texas Southwestern Medical Center, Dallas, TX, USA

Visiting Observer in Cardiovascular & Thoracic Surgery(CVTS) department, Michael E. Jessen, M.D. & Michael A. Wait, M.D.

Externship/Preceptorship (4 weeks):

-Observed many CVTS cases like arch debranching, hemiarch replacement, LVAD removal, BSLT, heart transplant, valve replacement, CABG, TAVR, ECMO, and ICD lead extraction.

-Observed the surgical procedures standing behind the drapes on the anesthesiology side. Worked with the anesthesiology team, which helped learn about heparin use and heparin reversal agent during cardiac surgery, besides learning about induction of anesthesia and monitoring vitals.

-Worked with a perfusionist, which helped learn about the cardiopulmonary bypass and working of the heart-lung machine.

11/2019 -12/2019

Average Hours/Week: 72

University of Texas Southwestern Medical Center, Dallas, TX, USA

Visiting Medical Student in Cardiovascular & Thoracic Surgery(CVTS) department, Michael E. Jessen, M.D. & Michael A. Wait, M.D.

Sub-internship (4 Weeks):

-Worked as a fourth-year medical student on William P. Clements Jr. University Hospital Cardiovascular & Thoracic Surgery service.

-Scrubbed in and attended many CVTS cases like arch debranching, hemiarch replacement, LVAD removal, BSLT, heart transplant, valve replacement, CABG, TAVR, ECMO, and ICD lead extraction.

-Assisted the fellows in closing the sternum with wires and sutured the sternotomy incision in multiple layers. Worked on the back table during BSLT and heart transplant cases.

-Presented patient cases scrubbed, in the morning round and finished the progress notes before going to OR. Learned how to take off the chest tube, pacing lead, and change wound dressing under the fellows' supervision.

-Noteworthy: Actively participated in the heart and lung procurement at Houston Medical Center.

10/2019-10/2019

Average Hours/Week: 50

Case Western Reserve University (CWRU), Cleveland, OH, USA

Visiting Medical Student in Abdominal Imaging department, Sree Tirumani, M.D. & Nikhil Ramaiya, M.D.

Clinical rotation in Abdominal Imaging (4 Weeks): at University Hospital(UH), Cleveland Medical Center.

-Reviewed patient charts in EMR to help look for the specific pathology in imaging and co-relate clinical and imaging findings. -Participated with radiology residents, fellows, and faculty in read-out teaching sessions.

-Attended daily resident lecture sessions, weekly grand rounds & weekly student radiology lectures. Presented liver masses imaging characteristics in student conferences.

-Observed CT & USG guided procedures for biopsy and drainage. Observed how upper and lower GI series is performed, learned about virtual colonoscopy & how three phases contrast CT imaging is done.

09/2019-09/2019

Average Hours/Week: 50

Cleveland Clinic Foundation (CCF) Main Campus, Cleveland, OH, USA

Visiting Medical Student in Abdominal Imaging department, Kavita Bhatt, M.D. & Andrei Puryško, M.D.

Clinical rotation in Abdominal Imaging (4 Weeks): at CCF Main Campus.

-Gained comprehensive knowledge of the current diagnostic imaging and procedures, their indication, and contraindication. Learned logical approaches to analyzing images to recognize basic anatomical structures and pathophysiology by reviewing one organ-systems at a time for example looking for a blood vessel patency by scrolling across all cross-sectional images in a single plane and then repeating the same in different planes.

-Reviewed patient charts in EMR to help look for the specific pathologies in imaging and co-relate clinical and imaging findings. Attended the daily resident lecture sessions covered during the rotation.

-Spent one week rotating in the body imaging (CT) section and another one week in the MRI section. Followed liver transplant patients for anastomosis patency and patients with liver masses using USG while rotating in the USG section for two weeks.

06/2019 -06/2019

Average Hours/Week: 72

Cleveland Clinic Foundation (CCF) Main Campus, Cleveland, OH, USA

Visiting Medical Student in Liver Transplant Surgery department, Federico Aucejo, M.D. & Kazunari Sasaki, M.D.

Sub-internship (4 Weeks):

-Worked as a fourth-year medical student on the CCF Main Campus Liver transplant service.

-Presented the patients' progress report to the PGY-3 resident on the team during pre-round in the morning and finished progress notes before going to OR for scheduled cases.

-Scrubbed in and assisted in living donor resections for a liver transplant, deceased donor orthotopic liver transplant, open and laparoscopic liver resection of liver masses.

-Worked on the back table, assisting and learning about the surgical anatomy of the liver.

-Rescrubbed in for recipient cases in another OR after assisting & closing the incision on the living donor.

-Took calls as designated by the transplant service, which helped to scrub & assisted in many deceased donor orthotopic liver transplant cases. Attended conferences, grand rounds, and formal multidisciplinary transplant rounds.

05/2019-05/2019

Average Hours/Week: 60

Case Western Reserve University(CWRU), Cleveland, OH, USA

Visiting Medical Student in Interventional Radiology(IR) department, Jon Davidson, M.D. & Mohammed Al-Natour, M.D.

Elective Clerkship rotation (4 weeks):

-Worked as a fourth-year medical student on Interventional Radiology (IR) service at the University Hospital (UH), Cleveland Medical Center.

-Learned to place tunneled & non-tunneled CVC, mediport, and PICC line under the fellow's and attending's supervision.

-Scrubbed and assisted in BRTO for splenorenal & gastrosplenic shunts, TIPS, chemoembolization of the liver tumor(TACE), Y-90 radioembolization, PTHC, percutaneous GJ tube placement, embolization of uterine fibroid, prostate artery, GI bleed, thoracic duct embolization, IVC filter placement, and IVC filter retrieval.

-During the fourth week of the rotation, presented a TIPS case to the student's conference and finished two quizzes on diagnostic radiology.

-Observed & learned about CT and US-guided biopsy procedures as well as Radiofrequency ablation of liver tumors using image fusion technique in the non-vascular IR section.

03/2019-04/2019

Average Hours/Week: 60

Louisiana State University Health Science Center(LSUHSC), Shreveport, LA, USA
Visiting Medical Student in Interventional Radiology(IR) department, Chaitanya Ahuja, M.D.

Elective Clerkship rotation(4 weeks):

-Worked as a fourth-year medical student on Interventional Radiology (IR) service at the University Hospital.

-Learned about interventional management of common pathologies such as abscess drainages, stent placements, and biopsies using CT and Ultrasound guidance.

-Rounded daily and assisted in procedures with the radiology resident and the faculty. Went for pre-procedure consultations, performed and interpreted examinations, and also followed up on post-procedures.

-Scrubbed & assisted in cases and performed simple procedures under supervision. Made rounds and presented the patients to the faculty before the procedure and during their follow-up.

-Attended the daily Radiology noon conferences and liver tumor board conferences weekly.

03/ 2019-03/2019

Average Hours/Week: 72

University of Texas Health Science Center (UTHSC), San Antonio, TX, USA
Visiting Medical Student in Vascular Surgery department, Lalithapriya Jayakumar, M.D., FACS

Sub-Internship(4 weeks):

-Worked as a fourth-year medical student on vascular surgery service at the University Hospital.

-Scrubbed & assisted in different endovascular and bypass cases like fistula creation for dialysis access, fistulogram, radial artery repair with patch from the adjacent vein, different lower limb bypass, abdominal aortic aneurysm(AAA) repair using TEVAR, laser thrombectomy, and carotid artery stenting.

-Got a chance to close the skin incisions and tie suture knots. Scrubbed & assisted in placing the femoral CVC bedside. Handled guidewires and catheters to assist during the angiography and endovascular procedures.

-Changed patients' dressing in the morning and presented the progress report to the residents & the fellow. Finished writing the progress note in EMR before going to OR.

-Presented a case of popliteal artery stent thrombosis requiring thrombolysis using tPA & fasciotomy later & finally needing TP trunk to PT artery bypass in student conference.

02/2019-03/2019

Average Hours/Week: 72

University of Texas Health Science Center (UTHSC), San Antonio, TX, USA

Visiting Medical Student in Surgical Trauma ICU service of Trauma & Emergency Surgery department, Susannah E. Nicholson, M.D. & Mark T. Muir, M.D.

Sub-Internship(4 weeks):

-Worked as a fourth-year medical student on Surgical Trauma ICU service at the University Hospital (UH).

-Scrubbed & assisted in procedures like intubation, bronchoscopy, central line & chest tube placement. Extubated patients under RT's supervision; removed drains, chest tube, IJ CVC; placed arterial line using USG guidance; placed wound vac & changed dressing under resident's supervision.

-Presented progress reports of ICU patients to the resident, fellow, and PA during pre-round and to the attending during the daily morning rounds.

-Performed tertiary examinations on patients after they were shifted to ICU from trauma bay and kept daily medical records in EMR as progress notes.

-Practised suturing skills & creating anastomosis in the simulation lab. Presented chest wall protocol for rib fracture management in a student conference and participated in a didactic critical care conference and trauma morbidity and mortality conference.

-Had the opportunity to take trauma calls.

01/2019-02/2019

Average Hours/Week: 60

Cleveland Clinic Foundation (CCF) Main Campus, Cleveland, OH, USA

Visiting Medical Student in Interventional Radiology(IR) department, Baljendra Kapoor, MD, FSIR, FACC

Elective Clerkship Rotation (4 Weeks):

-Worked as a fourth-year medical student on CCF Main Campus Interventional Radiology (IR) service.

-Learned to place tunneled & non-tunneled CVC, mediport, and PICC lines under the attending's supervision.

-Scrubbed and assisted in different procedures like TIPS, chemoembolization of the liver tumor (TACE), Y-90 radioembolization, PTHC, percutaneous GJ tube placement, GI bleed embolization, thoracic duct embolization, IVC filter placement, and retrieval.

-Observed & learned about Radiofrequency ablation of liver tumors using image fusion technique. Actively took part in journal club meetings along with other medical students on service.

11/2018-12/2018

Average Hours/Week: 72

Louisiana State University Health Science Center (LSUHSC), Shreveport, LA, USA

Visiting Medical Student in Internal Medicine(IM) department, Dr. Kapil Kohli, M.D.

Sub-Internship(4 Weeks):

-Worked as a fourth-year medical student on Internal Medicine(IM) service at the University Hospital(UH).

-Completed and documented in Epic (EMR) the history and physical exams of each patient assigned on the Inpatient Medicine Wards and all patient orders and daily progress notes. Performed H&P on each new patient assigned and presented the information to the attending and presented the pathophysiology, diagnosis, and treatment plans using UpToDate website.

-Presented the topic assigned by preparing a mini-presentation to the Medicine Ward team after finishing rounds. Attended all scheduled department conferences with the Medicine interns, as documented by a sign-in sheet.

-Rounded with the team every weekday and one weekend day each week. Was on call each fifth night with the Inpatient Medicine Ward team.

01/2018 - 07/2019

Average Hours/Week: 60

Sir Sunderlal Hospital, Banaras Hindu University (BHU), Varanasi, UP, India

Intern Medical Student:

-The Internship rotations are similar to the final year medical school elective clerkship rotations in the USA. 12 months of compulsory clinical rotation in various hospital departments attached to medical school is part of 5.5 years of the medical school curriculum and is required to meet the graduation requirement.

-12 months of rotations in Internship includes rotations in Internal Medicine(6 weeks), General Surgery(6 weeks), OB/GYN (8 months), Pediatrics including PICU(4 weeks), Community(Family) Medicine including rural posting(8 weeks), Anesthesiology(2 weeks), Emergency medicine(2 weeks), Otorhinolaryngology (ENT)(2 weeks), Ophthalmology(2 weeks), Respiratory medicine & TB(2 weeks), Psychiatry(2 weeks), and Orthopedics(4 weeks).

-From these rotations, learned and acquired various clinical skills like urinary catheterization, NG tube placement, blood sampling, intravenous cannula placement, blood component transfusion, intubation, and central line placement.

Conferences and Workshop

-"Endoscopic Intramural Surgery" workshops (CME by Cleveland Clinic, OH); June 7-8, 2019

-Ultrasound Workshop: Diagnostic & Procedural Skills (CME by Cleveland Clinic, OH); May 16-18, 2019

- SELCISON(conference of Society of Endoscopic and Laparoscopic Surgeons of India); Sept 28-30, 2018
- Airway Seed Workshop(by Anaesthesiology Department, Institute of Medical Sciences (IMS), Banaras Hindu University (BHU), Varanasi, India); Sept 22-23, 2018
- ICS-ISCON(Conference of International College of Surgeons Indian Section); Sept 14-16, 2018
- Johnson & Johnson Institute on Wheel; May 2018
 - Hands-on Open and Laparoscopic suturing, ETHICON suture practicum (Knot tying and suturing skills), Vascular anastomosis & Bowel repair.
- Endocon (Endoscopy conference and workshop) of SGEI (Society of Gastrointestinal Endoscopy of India); April 2018; 8 UPMC CME credit hours
- Critical care in Paediatrics in ISCCM (Indian Society of Critical Care Medicine); March 2018; 20 UPMC CME credit

Volunteering Work

Working with Preventive/Community Medicine Department, Institute of Medical Sciences (IMS), Banaras Hindu University (BHU), Varanasi, India; 01/2018-02/2018

- Raised public awareness towards importance of vaccination
- Worked for pulse polio programme

Skills

- Microsoft (MS) Office Suite (Word, Powerpoint, **Excel, Access**)
- IBM SPSS Statistics**
- REDCap
- MS Visual Basic
- Microcontroller (ATMEL 8051)

Hobbies & Interests

- Dancing: Hip hop, Breakdance, and Freestyle.
 - Actively participated in all India medical-fest ELIXIR and competed in a dance contest during the first and second years of medical school.
- Assembling PC & electronics: Enjoy assembling computer parts to build a customized PC.

Language Fluency

<u>Language</u>	<u>Language Proficiency</u>	<u>Proficiency Description</u>
English	Advanced	I speak very accurately, and I understand other speakers very accurately. Native speakers have no problem understanding me, but they probably perceive that I am not a native
Hindi	Native/functionally native	I converse easily and accurately in all types of situations. Native speakers, including the highly educated, may think that I am a native speaker, too.
Nepali	Native/functionally native	I converse easily and accurately in all types of situations. Native speakers, including the highly educated, may think that I am a native speaker, too.

Other Awards/Accomplishments

Honors in elective clerkship rotations (sub-internship) at Cleveland Clinic Foundation (CCF) Main Campus, Cleveland, Ohio, USA, in:

- Liver Transplant Surgery, 06/2019
- Interventional Radiology (IR), 01/2019.

Honors in elective clerkship rotation (sub-internship) at University Hospital (UH), Cleveland Medical Center, Case Western Reserve University (CWRU), Cleveland, Ohio, USA, in:

- Interventional Radiology (IR), 05/2019.

CV last updated

3/ 2023