

## **SUMMARY**

Sandhya Venugopal is a Clinical Professor, noninvasive cardiologist and specialist in the use of frontline assessments — the stress test, electrocardiograms and echocardiography — to determine cardiac health. Her unique skills and passion also lie in imparting optimal medical education to the adult learner. She endeavors to constantly search and continually strive to reshape the role of the clinician educator.

Her abilities in the educational process have been recognized by several appointments of distinction: Associate Dean for Continuing Medical Education, Master Clinician Educator, Associate Director of the Cardiology Fellowship Training Program, Dean's Teaching Award, and Associate Chair of CME courses in Cardiology. At UC Davis, she launched an adult congenital heart disease clinic to provide optimal care in all congenital heart diseases. Dr. Venugopal also originated an innovative simulation-based curriculum to teach critical thinking skills to first year medical students. Additional qualifications and notable experiences include:

- Dynamic Clinician and Director with multifaceted experience acting as a spokesperson and advocate for medical education. Possesses a deep understanding of the challenges and opportunities currently impacting the health care educational landscape.
- Record of successful organizational leadership. Superior communication skills, easily interacts with peers, faculty, students, patients and staff.
- Talented lecturer, leader, and respected member of the UC Davis School of Medicine; dedicated to the interrelatedness of teaching, student learning and development, research and scholarship, and applied clinical skills.

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## **EDUCATION & HONORS**

**DIAMOND DOC AWARD 2021 University of California Davis Health**, Sacramento, California

**HEDWIG VAN AMERINGEN EXECUTIVE LEADERSHIP IN ACADEMIC MEDICINE (ELAM) PROGRAM FOR WOMEN: Fellow 2017-2018 Class Drexel University**, Philadelphia, Pennsylvania

**MASTER OF SCIENCE: HEALTH PROFESSIONS EDUCATION; 2014 – 2016 Massachusetts General Hospital Institute of Health Professions**  
Boston, Massachusetts

**OUTSTANDING SCHOLARLY PROJECT: MHPE “The Correlation between 20 questions and Clinical Skills Exam (CPX), Diagnostic Pattern Recognition (DPR) and Clinical Data Interpretation (CDI) in Predicting Third Year Medical Students’ Performance.” June 2016 Massachusetts General Hospital Institute of Health Professions** Boston, Massachusetts

**DEAN’S EXCELLENCE AWARD IN TEACHING 2015**  
**School of Medicine, University of California Davis Health**, Sacramento, California

**DEAN’S EXCELLENCE TEAM AWARD 2013**  
**School of Medicine, University of California Davis Health**, Sacramento, California

**MASTER CLINICIAN EDUCATOR; 2012 – Present**  
**School of Medicine, University of California Davis Health**, Sacramento, California

**PATIENT CARE AWARD 2016**  
**University of California Davis Health**, Sacramento California

AAMC MID CAREER WOMEN FACULTY PROFESSIONAL DEVELOPMENT SEMINAR;  
2014

- Chosen by the School of Medicine's Dean's Office to represent UC Davis School of Medicine

AAMC EARLY CAREER WOMEN FACULTY PROFESSIONAL DEVELOPMENT  
SEMINAR; 2009

- Chosen by the School of Medicine's Dean's Office to represent UC Davis School of Medicine

FELLOWSHIP TO THE AMERICAN COLLEGE OF CARDIOLOGY (FACC);  
2008 - Present

UC DAVIS JUNIOR REPRESENTATIVE TO THE AAMC COUNCIL OF FACULTY AND  
ACADEMIC SOCIETIES; 2013 - 2018

FELLOWSHIP, CENTER HEALTH CARE AND TECHNOLOGY  
CENTER FOR VIRTUAL CARE (Simulation); 2013 - 2014  
**University of California Davis Health**, Sacramento, California

FACULTY DEVELOPMENT, MID-CAREER LEADERSHIP PROGRAM;  
2012-2014  
**University of California Davis Health**, Sacramento, California

FACULTY DEVELOPMENT, EARLY CAREER LEADERSHIP  
PROGRAM; 2010-2011  
**University of California Davis Health**, Sacramento, California

FACULTY DEVELOPMENT, INTERPROFESSIONAL TEACHING SCHOLARS  
PROGRAM (ITSP); 2009-2010  
**University of California Davis Health**, Sacramento, California

CARDIOVASCULAR MEDICINE CHIEF FELLOW; 2005 - 2006  
**Rush University Medical Center**, Chicago, Illinois

CARDIOVASCULAR MEDICINE FELLOWSHIP; 2003 - 2006  
**Rush University Medical Center**, Chicago, Illinois

STANFORD UNIVERSITY MEDICAL EDUCATION CURRICULUM  
DEVELOPMENT SERIES; 2002-2003  
**Oregon Health Sciences University/Kaiser Permanente**, Portland, Oregon

GENERAL MEDICINE FELLOWSHIP; 2002 - 2003  
**Oregon Health Sciences University/Kaiser Permanente**, Portland, Oregon

INTERNAL MEDICINE RESIDENCY; 1999 – 2002  
**Oregon Health Sciences University**, Portland, Oregon

DOCTOR OF MEDICINE, Graduated with Distinction; 1995 - 1999  
**University of Kentucky School of Medicine**, Lexington, Kentucky

BACHELOR OF SCIENCE: HEALTH AND HUMAN STUDIES; 1991 - 1995  
**University of Kentucky, Lexington, Kentucky**

- Summa cum laude
- Phi Beta Kappa

## EXPERIENCE

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### **ASSOCIATE DEAN, CONTINUING MEDICAL EDUCATION University of California, Davis, Sacramento, CA (8/2017 – Present)**

- Oversees the Office of CME and its programs, as well as the creation, implementation, evaluation and certification of all CME activities.
- Responsible for developing and leading a strategic vision for CME at UC Davis Health, which includes implementing technological advances as well as integrating interprofessional CME opportunities between the Schools of Health and other health professions.
- Assisting faculty educators with course design, development and evaluation, and providing guidance on the delivery mechanism most appropriate to meet their educational objectives, resulting in quality, certified CME coursework
- Built collaboration with colleagues in Undergraduate and Graduate Medical Education, Faculty Development, Diversity, Simulation, Quality, Regional Affiliations, and the Hospital to achieve excellence in educational outcomes
- Lead OCME team in preparing for ACCME reaccreditation in 2021

### **CLINICAL PROFESSOR, Dept. of Internal Medicine/Division of Cardiovascular Medicine, University of California at Davis, Sacramento, CA (2019 - present)**

### **ASSOCIATE CLINICAL PROFESSOR, Dept. of Internal Medicine/Division of Cardiovascular Medicine, University of California at Davis, Sacramento, CA (2012 - 2018)**

- One of 6 inaugural members of the Master Clinician Educator Academy, established by the School of Medicine with the goal of enhancing the teaching of clinical skills and learning environment for medical students.
- Assisted medical students in the teaching of clinical skills including physical exam, history taking, clinical diagnosis and clinical reasoning.
- Instructor of record for an introductory course for second year medical students on the cardiovascular system (IMD 420D).
- Instructor of record for a course that focuses on teaching cardiovascular pathophysiology for the Howard Hughes Summer Institute students (CLH 250). This course aims to provide graduate students with a foundation of cardiac pathophysiology to help apply a clinical component to transitional research.
- Co-director of the fourth year ECG elective (CAR 498), and co-director of the ECG and Chest Pain seminar for the third-year medical students on the internal medicine clerkship. Under my leadership, this seminar has incorporated real patients to help students improve their cardiovascular exam skills—an innovation that has been unanimously well received based on student focus group evaluations.
- Founded a simulation based clinical reasoning and critical thinking program for the first year Doctoring students. This innovative program received rave reviews from students and faculty, resulting in the restructuring of the longitudinal Doctoring Course for years 1 and 2.
- Completed a curriculum restructure of the Pathophysiology Block, rolled out in 2013. Over an eight-month period, transformed the 2<sup>nd</sup> year Block from a static sequence of course components resulting in cognitive overload for students into a dynamic and modular system of learning that is substantially more responsive to the evolving needs of the learner.
- Co-director and restructured the Transition to Clerkship Course for early third year medical students entering clerkships.
- Recurring Invited Lecturer, UC Davis Medical Center NP/PA Training program

**ADJUNCT ASSOCIATE PROFESSOR: Master of Science Health Professions Education Program, Massachusetts General Hospital Institute of Health Professions, Boston, MA (2016-present)**

- Advisory role to international interprofessional mid-career health professional scholars in medicine, pharmacy, nursing, and allied health.
- Faculty Director overseeing all Master's degree thesis projects
- Curriculum development and program oversight
- Utilization of an online learning platform to conduct webinars and coordination of Master thesis projects.
- Strengthened my understanding of accreditation and regulatory requirements
- Development of a mentoring program from the ground up. This effort ranges from strategic planning and budgeting to identification of roles and responsibilities all the way to phased product rollout and implementation.

**ASSOCIATE CARDIOLOGY FELLOWSHIP DIRECTOR, Department of Internal Medicine/Division of Cardiovascular Medicine, University of California at Davis, Sacramento, CA (2010 - present)**

- Developed competency-based curriculum for Cardiology Fellows.
- Arranged educational activities such as noninvasive lectures and gave annual performance evaluations.
- Advised over 50 Cardiology Fellows since 2006
- Member, Clinical Competence Committee (CCC) and ACGME self-study committee

**FOUNDER AND CO-DIRECTOR, Adult Congenital Heart Disease Clinic, University of California at Davis, Sacramento, CA (2010 - present)**

- Launched a multi-disciplinary adult congenital heart disease clinic to provide comprehensive post-pediatric care for people who live with congenital heart defects.
- Structured a coordinated team approach that includes an initial evaluation, explanation of therapeutic options, innovative surgical and transcatheter therapies and consultative follow-up.

**ASSISTANT CLINICAL PROFESSOR, Department of Internal Medicine/Division of Cardiovascular Medicine, University of California at Davis, Sacramento, CA (2006 - 2012)**

- Member of the New Faculty Search Committee-Cardiology.
- Member of the Utilization Review Committee.
- Active faculty member in the Echocardiography Lab; organized and delivered CME lecture series for sonographers.
- Updated the Transesophageal Echocardiogram and Stress Testing Protocols and worked with the echocardiography team to successfully achieve ICAEL accreditation for the Echocardiography Lab in 2011.

**DIRECTOR, HEART STATION/ECG LABORATORY, Department of Internal Medicine/Division of Cardiovascular Medicine, University of California at Davis, Sacramento, CA (2006 - present)**

- Lead the team that initiated and supervised the upgrade of the MUSE ECG software.
- Lead the update of the Treadmill Database that houses the stress test results for the Division of Cardiovascular Medicine and Medical Center.
- Lead the team that initiated and supervised the upgrade of Ambulatory ECG software (Holter monitors, Event recorders, patch technology)
- Founded a monthly CQI conference for the Heart Station technicians

## SPEECHES

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**Keynote Speech: White Coat Ceremony** California Northstate University School of Medicine. Elk Grove, California August 2019

**Keynote Speech: MGHIHP Convocation Seminar** “Reimaging Education: Updates in Continuing Medical Education”  
Masters in Health Professions Education Program, Massachusetts General Hospital Institute of Health Professions, Boston, Massachusetts June 2019

## CURRICULUM DEVELOPMENT

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**Faculty Development:** Collaborator and project manager lead on CME projects with faculty subject matter experts

- CME/GME enduring module entitled **Professionalism for Faculty and Residents** by Drs. Laura Kenkel and Dan Ragland 4/2021  
<https://360.articulate.com/review/content/45005dbf-bf34-4832-87f6-064877d088ec/review>
- CME/GME enduring module entitled **12 Tips for Teaching Clinical Reasoning** by Dr. Paul Aronowitz 11/2020  
[https://uc.sumtotal.host/core/pillarRedirect?relyingParty=LM&url=app%2Fmanagement%2FLMS\\_ActDetails.aspx%3FActivityId%3D414769%26UserMode%3D0](https://uc.sumtotal.host/core/pillarRedirect?relyingParty=LM&url=app%2Fmanagement%2FLMS_ActDetails.aspx%3FActivityId%3D414769%26UserMode%3D0)
- CME/GME enduring module entitled **Clinical Microteaching** by Dr. Mark Henderson 12/2020
- CME enduring module entitled **Racism in Clinical Medicine** by Dr. Swati Rao 4/2021
- CME/GME enduring module entitled **Conflict Management** by Ombuds Lauren Bloom and Lidsey Henning 5/2021

**Course Director: HE 795 Scholarly Project Course;** Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, 2016-2019

- Mentored seminar: Master’s thesis projects

**Course Director: Introduction to Pathophysiology of the Cardiovascular System;** 2008-present

- Second year course, UC Davis School of Medicine
- The aim of the cardiovascular course is to provide material on the diseases, which affect the circulation, in preparation for students working with patients in the clinical years. Basic pathology and pathophysiology are discussed within a clinical framework.

**Co-Director: ECG Elective** 2008-present

- Fourth year course, UC Davis School of Medicine

**Co-Director of the ECG and Chest Pain seminar** 2008-present

- Part of the Third year Internal Medicine Clerkship, UC Davis School of Medicine
- Curriculum restructure 2012-incorporated real patients to help students improve their cardiovascular exam skills

**Founder and Director, Echocardiography Lecture Series for the Society of Diagnostic Medical Sonographers;** 2007-2012

- A monthly CME lecture series for sonographers at UC Davis Medical Health

**Founder, Echocardiography Monthly CQI Conference for**

**Sonographers,** Division of Cardiovascular Medicine, UC Davis Medical Center; 2007-present

**Cardiology Subspecialty Educator Co-Director**

- Appointed by Internal Medicine Residency Program Director, Department of Internal Medicine
- Review and update the inpatient cardiology and consultation service curriculum for the Internal Medicine Residency Program at UC Davis Medical Center; 2007 – present
- Organized recurring lecture series for internal medicine residents on cardiovascular topics

**Founder and Lecturer, Non-invasive Cardiology Conference**

- Monthly teaching conference for Cardiology Fellows at UC Davis Medical Center; 2008-present

**Co-Founder, CME Lecture Series, Adult Congenital Heart Disease**

Division of Cardiovascular Medicine, UC Davis Medical Center; 2010-2013

**Curricular Restructure of Pathophysiology courses, Year 2**, University of California, Davis School of Medicine; 2013

**Co-Director Transition to Clerkship Course**

- Overall goal of the course is to smooth the transition from preclinical to clinical years for incoming third year medical students
- Initiated and completed a restructuring of the course to include simulation and physical exam training, 2015

**Curricular Restructure of Doctoring courses, Years 1 and 2**, University of California, Davis School of Medicine; 2014-2016

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**TEACHING**

**& LECTURES**

*Overview of Teaching/Lectures: 2007*

- Lecture: MDS 411A, Doctoring 1, University of California, Davis School of Medicine
- Lecture: Co-instructor for IM 430, Internal Medicine Clerkship, EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours
- Lecture: MDS 411B, Doctoring 1, University of California, Davis School of Medicine 2 hours
- Lecture: CAR 498, EKG Reading, University of California, Davis, School of Medicine, 3 hours
- Seminar: Preceptor, Applied Medical Principles (AMP) group, University of California, School of Medicine 6 hours
- Lecture: Co-instructor for IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 3 hours
- Howard Hughes Summer Institute, Cardiovascular Pathophysiology (HHMI IMBS), University of California, Davis School of Medicine, 14 hours

*Overview of Teaching/Lectures: 2008*

- Lecture: Co-instructor for IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours
- Lecture: CAR 498, ECG Reading, University of California, Davis School of Medicine, 3 hours

- Lecture: MDS 421D: Doctoring 2, University of California, Davis School of Medicine 2 hours
- Seminar: CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, School of Medicine, 14 hours
- Other: Preceptor, Howard Hughes Summer Institute Rotation in Echocardiography, University of California, Davis School of Medicine, 36 hours
- Other: Preceptor, Doctoring 1, University of California, School of Medicine, 10 hours
- Lecture: "Introduction to Cardiology", IMD 420D, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours

***Overview of Teaching/Lectures: 2009***

- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours
- Lecture: "Introduction to Cardiac Diagnostic Testing - Emphasis on the Electrocardiogram", CAR 498: EKG Reading, University of California, Davis Medical Center, 3 hours
- Seminar: "Introduction to Cardiovascular Pathophysiology – Part 2, CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Other: Preceptor, Howard Hughes Summer Institute Rotation in Echocardiography, University of California, Davis School of Medicine, 36 hours
- Lecture: "Coronary Artery Disease and Acute Coronary Syndrome", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Congestive Heart Failure", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Review of Cardiac Gross Anatomy", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 4 hours
- Lecture: "Cardiac Emergencies - Sim Suite Session", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 3.5 hours
- MDS421 B: Doctoring 2 Application of Medical Principles (AMP), University of California, Davis School of Medicine, 6 hours
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour

- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours

***Overview of Teaching/Lectures: 2010***

- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours
- Lecture: "Chamber Abnormalities" and workshop, CAR 498: EKG Reading, University of California, Davis School of Medicine, 4 hours
- Lecture: "Preexcitation" and workshop, CAR 498: EKG Reading, University of California, Davis School of Medicine, 4 hours
- Seminar: "Introduction to Cardiovascular Pathophysiology – Part 2, CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Other: Preceptor, Howard Hughes Summer Institute Rotation in Echocardiography, University of California, Davis School of Medicine, 36 hours
- Lecture: "Coronary Artery Disease and Acute Coronary Syndrome", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Congestive Heart Failure", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Review of Cardiac Gross Anatomy", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 4 hours
- Lecture: "Cardiac Emergencies - Sim Suite Session", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 3.5 hours
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hours
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours

***Overview of Teaching/Lectures: 2011***

- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours
- Lecture: "Chamber Abnormalities" and workshop, CAR 498: EKG Reading, University of California, Davis School of Medicine, 4 hours
- Lecture: "Pediatric ECG Review", CAR 498: EKG Reading, University of California, Davis School of Medicine, 4 hours
- Lecture: "Finishing Touches", CAR 498: EKG Reading, University of



- California, Davis School of Medicine, 4 hours
- Lecture: "Echo Lab", CLH 231, Howard Hughes Medical Institute, Integrating Medicine into Basic Science, University of California, Davis School of Medicine
- Seminar: "Introduction to Cardiovascular Pathophysiology – Part 2, CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Other: Preceptor, Howard Hughes Summer Institute Rotation in Echocardiography, University of California, Davis School of Medicine, 36 hours
- Lecture: "Coronary Artery Disease and Acute Coronary Syndrome", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Congestive Heart Failure", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Review of Cardiac Gross Anatomy", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 4 hours
- Lecture: "Cardiac Emergencies - Sim Suite Session", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 3.5 hours
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Cardiology Testing Methods", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour

***Overview of Teaching/Lectures: 2012***

- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Congenital Heart Disease", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Echo Lab", CLH 231, Howard Hughes Medical Institute,

Integrating Medicine into Basic Science, University of California, School of Medicine

- Seminar: "Introduction to Cardiovascular Pathophysiology – Part 2, CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Other: Preceptor, Howard Hughes Summer Institute Rotation in Echocardiography, University of California, Davis School of Medicine, 36 hours
- Lecture: "Coronary Artery Disease and Acute Coronary Syndrome", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Congestive Heart Failure", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Review of Cardiac Gross Anatomy", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 4 hours
- Lecture: "Cardiac Emergencies - Sim Suite Session", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 3.5 hours
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Cardiology Testing Methods", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours

***Overview of Teaching/Lectures: 2013***

- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Congenital Heart Disease", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Echo Lab", CLH 231, Howard Hughes Medical Institute,

Integrating Medicine into Basic Science, University of California, School of Medicine

- Seminar: "Introduction to Cardiovascular Pathophysiology – Part 2, CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Other: Preceptor, Howard Hughes Summer Institute Rotation in Echocardiography, University of California, Davis School of Medicine, 36 hours
- Lecture: "Coronary Artery Disease and Acute Coronary Syndrome", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Congestive Heart Failure", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 1.5 hours
- Lecture: "Review of Cardiac Gross Anatomy", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 4 hours
- Lecture: "Cardiac Emergencies - Sim Suite Session", CLH 250 Howard Hughes Summer Institute, Cardiovascular Pathophysiology, University of California, Davis School of Medicine, 3.5 hours
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Cardiology Testing Methods", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours

***Overview of Teaching/Lectures: 2014***

- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour

- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Cardiology Testing Methods", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours
- Workshops: Simulation-based Clinical Reasoning Exercises, University of California, Davis School of Medicine, 100 hours
- Lecture: Cardiac Diagnostic Testing Methods, NP/PA Program, University of California, Davis School of Nursing, 1 hour
- Lecture: ECG, NP/PA Program, University of California, Davis School of Nursing, 1 hour

***Overview of Teaching/Lectures: 2015***

- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Workshops: Simulation-based Clinical Reasoning Exercises, University of California, Davis School of Medicine, 50 hours
- Lecture: ECG, NP/PA Program, University of California, Davis School of Nursing, 1 hour
- Lecture: "Introduction to Cardiology", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Arrhythmia 2", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "ECG Interactive Review", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Cardiology Testing Methods", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Simulated Patient Case: Chest pain", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 4 hours
- Lecture: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Simulated Patient Case: Tachyarrhythmia and Bradyarrhythmia", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hour

- Lecture: IM 430. Internal Medicine Clerkship: EKG and Chest Pain Seminar, University of California, Davis School of Medicine, 12 hours

### ***Overview of Teaching/Lectures: 2016***

- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours
- Workshops: Simulation-based Clinical Reasoning Exercises, University of California, Davis School of Medicine, 50 hours
- Lecture: ECG, NP/PA Program, University of California, Davis School of Nursing, 1 hour
- Facilitator: A Systems Approach to Assessment in Health Professions Education. Harvard Macy Institute Program (Faculty Development), Harvard Medical School March 2016, 40 hours
- Lecture: "Toyota Way", A Systems Approach to Assessment in Health Professions Education. Harvard Macy Institute Program (Faculty Development), Harvard Medical School March 2016, 1 hour
- Co-facilitator: Innovations Seminar; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, September 2016, 40 hours
- Co-facilitator/advisor: HE 744 Research Methods Course; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Sept-Dec 2016
- Course Director/advisor: HP 795 Scholarly Project; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Sept-Dec 2016

### ***Overview of Teaching/Lectures: 2017***

- Facilitator: Program for Educators in Health Professions. Harvard Macy Institute Program (Faculty Development), Harvard Medical School Jan and May 2017, 20 hours
- Facilitator: A Systems Approach to Assessment in Health Professions Education. Harvard Macy Institute Program (Faculty Development), Harvard Medical School March 2017, 25 hours
- Course Director/advisor: HP 795 Scholarly Project; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Jan-Apr 2017
- Co-facilitator/advisor: HE 744 Research Methods Course; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Sept-Dec 2017
- Course Director/advisor: HP 795 Scholarly Project; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Sept-Dec 2017
- Lecture: "Introduction to ECGs", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour 11/2/17
- Lecture: ECG, NP/PA Program, "Update in Atrial Fibrillation" University of California, Davis School of Nursing, 1 hour 11/30/17
- Lecture: "Simulated Patient Case: Tachyarrhythmia and Bradyarrhythmia", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours

- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour 12/1/17
- Facilitator: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour

***Overview of Teaching/Lectures: 2018***

- Course Director/advisor: HP 795 Scholarly Project; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Jan-Apr 2018
- Course Director/advisor: HP 795 Scholarly Project; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Sept-Dec 2018
- Lecture: "Introduction to ECGs", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour 11/2/18
- Lecture: ECG, NP/PA Program, "Update in Atrial Fibrillation" University of California, Davis School of Nursing, 1 hour 11/30/18
- Lecture: "Simulated Patient Case: Tachyarrhythmia and Bradyarrhythmia", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour 12/2/18
- Facilitator: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Cardiovascular Jeopardy" MOC and Board Review for cardiology fellows University of California, Davis, 1 hour 11/30/18

***Overview of Teaching/Lectures: 2019***

- Course Director/advisor: HP 795 Scholarly Project; Masters in Health Professions Education, Massachusetts General Hospital Institute of Health Professions, Jan-Apr 2019
- Lecturer: Cardiology CME: Heart Failure Summit "Pathophysiology of Heart Disease" Oct 2019
- Facilitator: "ECG Workshops", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour
- Lecture: "Introduction to ECGs", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour 11/2019
- Lecture: ECG, NP/PA Program, "Update in Atrial Fibrillation" University of California, Davis School of Nursing, 1 hour 11/2019
- Lecture: "Simulated Patient Case: Tachyarrhythmia and Bradyarrhythmia", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 6 hours
- Lecture: "Arrhythmia 1", IMD 420D, Cardiovascular System, University of California, Davis School of Medicine, 1 hour 12/2019

***Overview of Teaching/Lectures: 2020***

- Lecture: "Ischemia and Infarct", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2020
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2020
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2020
- Facilitator: "ECG Workshops", CAR 498, Cardiovascular System,

University of California, Davis School of Medicine, 1 hour

- Lecture: Faculty Development Leadership Series: “Bridging the Gap Between Leadership and Management” Part 1, University of California, Davis School of Medicine, 1.5 hours, Jan 2020
- Lecture: Faculty Development Leadership Series: “Bridging the Gap Between Leadership and Management” Part 2, University of California, Davis School of Medicine, 1.5 hours, Jan 2020

#### ***Overview of Teaching/Lectures: 2021***

- Lecture: "Chamber Enlargement CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2021
- Lecture: "Pediatric ECG", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2021
- Lecture: "SVT", CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2020
- Lecture: "Midterm Exam Review CAR 498, EKG Reading, University of California, Davis School of Medicine, 2 hours, Feb 2021
- Lecture: "Introduction to ECG Part 1", Cardiovascular System, California Northstate School of Medicine, 1 hour March 2021
- Lecture: "Introduction to ECG Part 2", Cardiovascular System, California Northstate School of Medicine, 1 hour March 2021
- Lecture: "Introduction to Congenital Heart Disease", Cardiovascular System, California Northstate School of Medicine, 1 hour March 2021

#### **BOARD CERTIFICATION/ LICENSURE**

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- Diplomat, American Board of Internal Medicine, 2002
- California Medical License, 2005 - Present
- Diplomat, Cardiovascular Medicine, 2007
- The National Board of Echocardiography, 2011
- Fluoroscopy-Supervisor

#### **ADMINISTRATIVE**

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**Co-Director, Cardiology Subspecialty Education**, Department of Internal Medicine, 2007 - Present

**Organizer, Non-invasive Cardiology Conference**, 2007 – 2016

**Volunteer, Shiafa Clinic**, University of California, Davis School of Medicine, 2008 - 2010

**Clinical Supervisor, Physician Assistant**, University of California, Davis, 2008 - present

#### **NATIONAL MEMBERSHIP**

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- Member, Associate Director Health Professions Education Program Search Committee, MGH Institute of Health Professions, Boston, MA; 2017-2018
- Member, American College of Cardiology (ACC); 2003 – Present

- Member, Research and Innovations Workgroup of ACC; 2017-2019
- Member, American Society of Nuclear Cardiology; 2004 – 2010
- Member, American Society of Echocardiography; 2004 - present
- Member, California Chapter of the American College of Cardiology; 2006 – present
- Representative, Association of American Medical Colleges Council of Faculty and Academic Societies (CFAS); 2013 - 2018
  - One of two faculty selected by peers to represent UC Davis School of Medicine.
- Counselor for the District of Sacramento, California Chapter of the American College of Cardiology; 2006 – 2008
- Member, American Heart Association; 2006 – Present
- Medical Director, Sacramento Echo and Vascular Society; 2008 – Present
- Member, Editorial Board of Preventive Cardiology Journal; 2009 – Present

## **INSTITUTIONAL MEMBERSHIP**

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- Member, UC Davis Health CEP Subcommittee;  
Curriculum Evaluations & Outcomes Subcommittee 7/1/21-6/30/22
- Member, UC Davis Health SOM Admissions Committee: Steering and Selection Subcommittee 7/1/21-6/30/24
- Member, UC Davis Health Health Information and Clinical Informatics Committee: 7/1/21-6/30/22
- Member, UC Davis Health Aging Initiative Education Committee 2020-present
- Member, UC Davis Health Institutional Liaison Committee on Medical Education (LCME), Self-Study Task Force 2019-present
  - Faculty Instructional Development (Standard 4)
- Member, UC Davis Health Quality and Safety Operations Committee 2017-present
- Member, Cardiology Fellowship Clinical Competency Committee 2016-present
- Member, Schools of Health Interprofessional Education Committee; 2017-2019
- Co-Divisional Mentoring Director, Division of Cardiovascular Medicine, Mentoring Academy; 2017-present
- Member: Vice Chancellor/Dean's Advisory Committee on Women in Medicine and Health Sciences; 2017-2019
- Member, Cardiology Division Search Committee; 2015-present
- Member, Department of Radiology Search Committee; 2020
- Chair, Committee on Educational Policy, Block Council Subcommittee; 2014 - 2016
- Member, Committee on Educational Policy, Block Council Subcommittee; Block Liaison; 2012 – 2014
- Member, Committee on Educational Policy, Curriculum Review Subcommittee; 2014 – 2016
- Member, Committee on Educational Policy; 2012 – 2016
- Member, Code Blue Committee; 2013-2016
  - Involved in training of all faculty, staff and housestaff at UC Davis Medical Center on ACLS Protocols
  - Winner, Deans Award in Teamwork, 2014
- Member and Director, CME Advisory Committee; 2014-present
- Member, UC Davis Women in Medicine and Science Strategic Working Group; 2014



- Member, Liaison Committee on Medical Education (LCME), Self-Study Subcommittee focused on Evaluation and Assessment (ED 24-32); 2013 - 2014
- Member, Department of Internal Medicine's strategic Working Group on Training Excellence; 2009
- Member, Medical Records Committee; 2007 – 2009
- Member, Committee on Student Progress, School of Medicine; 2008 – 2010
- Member, Cardiac Service Performance Improvement Programmatic Subcommittee; 2009 – 2010
- Member, Utilization Review Committee; 2011 – 2014
- Member, Committee on Research Affairs; 2011 – 2014

## PRESENTATION

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### *Electronic Media, Broadcast, or Print*

- Preoperative Evaluation of the Cardiac Patient for Noncardiac Surgery, Website, 1/14/13, "Topics in Cardiology" Audio-Digest CME/CE program, Vol. 60, issue 2
- Sponsoring You: How to Go After Awards and Recognition, Website, 2015, Association of American Medical Colleges. <https://www.aamc.org/members/gwims/communications/431536/venugopalarticle.html>.
- MKSAP Podcast Cardiology 2, Other, 2016, iTunes. Medical students University of California, Davis Medical Center
- MKSAP Podcast Cardiology 18, Other, 2016, iTunes. Medical students University of California, Davis Medical Center
- MKSAP Podcast Cardiology 24, Other, 2016, iTunes. Medical students University of California, Davis Medical Center
- Chen C, **Venugopal S**. Right Electrocardiogram, Wrong Patient. PSNet [internet]. Rockville (MD): Agency for Healthcare Research and Quality, US Department of Health and Human Services. 2020. <https://psnet.ahrq.gov/webmm/right-electrocardiogram-wrong-patient>.
- CME Podcast COVID-19 Understanding A pandemic. UC Learning LMS. University of California, Davis Medical Center March 2020
- World Heart Day 9/29/2020 Facebook Live UC Davis Health <https://www.facebook.com/UCDavisHealth/videos/258170372110687/>

### *Workshops, Conferences, Presentations*

- Nuclear Cardiology and Risk Stratification, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 11/27/06.
- Diastolic Dysfunction and the Role of Tissue Doppler, Part 1, Presenter, Echo Sonographers, University of California, Davis Medical Center, 11/2006.
- Diastolic Dysfunction and the Role of Tissue Doppler, Part 2, Presenter, Echo Sonographers, University of California, Davis Medical Center, 12/2006.
- Mitral Stenosis, Presenter, Grand Rounds, San Joaquin General Hospital, 01/25/07.
- Arrhythmias I: Supraventricular, Presenter, Electrocardiographic Interpretation: A Practical Approach for the Primary Care Practitioner, University of California, Davis Medical Center, 02/17/07, 84 Attendees.
- QRS Axis: Calculation and Clinical Relevance, Presenter, Electrocardiographic Interpretation: A Practical Approach for the Primary Care Practitioner, University of California, Davis Medical Center, 2/17/07, 84 Attendees.

- Hypertrophy: Ventricular, Atrial, Presenter, Electrocardiographic Interpretation: A Practical Approach for the Primary Care Practitioner, University of California, Davis, 02/17/07, 81 Attendees.
- The Value of Echocardiograms, Presenter, Coronary Heart Disease Reversal Program, University of California, Davis Medical Center, 02/07.
- Mitral Regurgitation, Presenter, Grand Rounds, San Joaquin General Hospital, 06/28/07.
- Supraventricular Tachycardia, Presenter, Internal Medicine Residents Noon Conference, University of California, Davis Medical Center, 12/17/07.
- Diastology, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 2007.
- Tissue Doppler Imaging, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 2007.
- A-V Optimization, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 2007.
- Mitral Stenosis, Presenter, Grand Rounds, San Joaquin General Hospital, 1/24/08.
- The Value of Echocardiograms, Presenter, Coronary Heart Disease Reversal Program, University of California, Davis Medical Center, 02/08.
- Prosthetic Valve Evaluation, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 05/05/08.
- Risk Stratification Myocardial Perfusion Testing, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 7/28/08.
- Role of Cardiac Rehab and Reversal Program in Your Life, Presenter, Coronary Heart Disease Program, University of California, Davis Medical Center, 08/08.
- Diastolic Dysfunction, Invited Speaker, Sacramento Echo and Vascular Society Meeting, University of California, Davis Medical Center, 09/08.
- Adult D-TGA, Presenter, Pediatric and Adult Cardiovascular Medicine, University of California, Davis Medical Center, 09/08.
- Coronary Calcium Screening, Presenter, Division of Cardiovascular Medicine, University of California, Davis Medical Center, 10/20/08.
- New Cardiac Drugs, Presenter, Current Concepts in Primary Care Cardiology, University of California, Davis at Maui, Hawaii, 10/25/08, 53 Attendees.
- Doctor, Should I...Take All These Medications for My High Blood Pressure?, Presenter, Current Concepts in Primary Care Cardiology, University of California, Davis at Maui, Hawaii, 10/25/08, 44 Attendees.
- Doctor, Should I...Have an Exercise Test or Imaging Study for my Chest Pain?, Presenter, Current Concepts in Primary Care Cardiology, University of California, Davis at Maui, Hawaii, 10/26/08, 51 Attendees.
- Non-compaction Cardiomyopathy, Presenter, Echo Sonographers, University of California, Davis Medical Center, 12/08.
- Prosthetic Valve Evaluation, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 04/06/09.
- Cardiac Tumors, Presenter, Grand Rounds, San Joaquin General Hospital, 4/23/09.
- Diastolic Dysfunction, Presenter, Division of Cardiovascular Medicine, University of California, Davis Medical Center, 08/10/09.
- Mitral Regurgitation, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 09/09/09.
- Constriction/Restriction, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 12/9/09.

- Adult D-TGA, Presenter, Division of Pediatric and Adult Cardiovascular Medicine, University of California, Davis Medical Center, 2009.
- Transposition of the Great Arteries: From Correction to Long Term Management, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 2009.
- Non-Compaction of the LV, Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 2009.
- Valvular Heart Disease, Invited Speaker, Internal Medicine Resident's Noon Conference, University of California, Davis, January 2010.
- Supraventricular Arrhythmias, Presenter, The Basic "How to" of Electrocardiographic Interpretation Symposium, University of California, Davis Medical Center, 4/24/10.
- Hypertrophy: Ventricular, Atrial, Presenter, The Basic "How to" of Electrocardiographic Interpretation Symposium, University of California, Davis Medical Center, 4/24/10.
- Case Studies with ECG Interpretation, Presenter, The Basic "How to" of Electrocardiographic Interpretation, University of California, Davis Medical Center, 4/24/10.
- Echo Evaluation of Prosthetic Valve, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 05/03/10.
- Exercise Stress Echocardiography (ESE), Presenter, Non-Invasive Lecture Series, University of California, Davis Medical Center, 01/12/11.
- Diastolic Dysfunction, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 01/31/11.
- PISA assessment of Mitral Regurgitation, Presenter, faculty, staff, sonographers, fellows, residents, students in adult and pediatric cardiology, Division of Pediatric and Adult Cardiovascular Medicine, University of California, Davis, 02/2011.
- Hypertrophy: Ventricular, Atrial, Presenter, The "How to" of Electrocardiographic Interpretation Symposium, University of California, Davis Medical Center, 4/30/11.
- ECG Alterations Related to Drugs and Metabolic Abnormalities, Presenter, The 'How to' of Electrocardiographic Interpretation Symposium, University of California, Davis Medical Center, 4/30/11.
- Wide QRS Tachycardias, Presenter, The "How To" of Electrocardiographic Interpretation Symposium, University of California, Davis Medical Center, 4/30/11.
- Assessment of Right Ventricular Function in Echocardiography, Presenter, SEVS Conference, University of California, Davis, 05/25/11, 56 Attendees.
- Systolic Dysfunction, Presenter, Clinical Cardiology Conference, University of California, Davis Medical Center, 12/5/11.
- Diastolic Dysfunction, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 4/2/12.
- Congenital Echos, Presenter, Noninvasive Conference, University of California, Davis Medical Center, 6/13/12.
- Updates in Atrial Fibrillation, Presenter, Cardiovascular Grand Rounds, San Joaquin General Hospital, French Camp, CA, 7/26/12.
- How to Perform the Thoracic Echo, Presenter, Noninvasive Conference, University of California, Davis Medical Center, 8/29/12.
- Update of the Treatment of Hypertension, Presenter, Cardiology Community Conference, Shriner's Hospital, Sacramento, CA, 9/12/12.
- Update on the Treatment of Hypertension, Invited Speaker, Current Concepts in Primary Care Cardiology, UC Davis Health System, Kohala Coast, HI, 10/3/12.
- Preoperative Evaluation of the Cardiac Patient for Non-cardiac Surgery, Invited

Speaker, Current Concepts in Primary Care Cardiology, UC Davis Health System, Kohala Coast, HI, 10/4/12.

- Roundtable Discussion Session 1 - When to Order an Echo: How to Interpret the Report, Invited Speaker, Current Concepts in Cardiology, UCD Health System, Kohala Coast, HI, 10/5/12.
- Roundtable Discussion Session 6 - When to Order and Echo: How to Interpret the Report, Invited Speaker, Current Concepts in Clinical Cardiology, UCD Health System, Kohala Coast, CA, 10/6/12.
- Coronary Calcium Screening, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 11/5/12.
- AHA Mock Board Review, Presenter, Perspectives in Clinical Cardiology Grand Rounds, University of California, Davis Medical Center, 12/7/12.
- Questions in Cardiology, Presenter, Perspective in Clinical Cardiology Grand Rounds, University of California, Davis Medical Center, 1/13/13.
- Preoperative Evaluation of the Cardiac Patient for Noncardiac Surgery, Invited Speaker, "Topics in Cardiology" Audio-Digest CME/CE program, vol 60, issue 2, 1/14/13.
- Update on the Treatment of Hypertension, Invited Speaker, Grand Rounds, Department of Family and Community Medicine, University of California, Davis, 1/29/13.
- Strategies for Moving Lectures to Engaged Learning in the Large Classroom: Beyond Team-Based Learning, Participant, University of California, Davis, 7/9/13.
- ACC Mock Board Review, Presenter, Perspectives in Clinical Cardiology Grand Rounds, University of California, Davis Medical Center, 3/13/14.
- Diastolic Dysfunction, Presenter, Cardiology Clinical Conference, University of California, Davis Medical Center, 4/14/14.
- Congenital Echos, Presenter, Noninvasive Conference, University of California, Davis Medical Center, 6/13/14.
- Symptoms of Arrhythmia in the Primary Care Setting, Presenter, Cardiac Arrhythmias 2014 Conference, University of California, Davis Medical Center, 8/3/14.
- ECG Workshop, Presenter, Cardiac Arrhythmias 2014 Conference, University of California, Davis Medical Center, 8/3/14.
- Systolic Dysfunction, Presenter, Clinical Cardiology Conference, University of California, Davis Medical Center, 12/8/14.
- A Big Heart is not Necessarily Better, Invited Speaker, Grand Rounds, Department of Internal Medicine, University of California, Davis, 2/27/15
- “Integrating and Transforming Medical Education Through Simulation”, Presenter, Center for Health and Technology Dean’s Symposium 4/27/2015
- Providers’ Best Practices & GPRA Measures: Updates in Congestive Heart Failure. Invited Speaker, Indian Health Services, Continuing Medical Education 5/5/15
- Preoperative Evaluation of the Cardiac Patient For Non-Cardiac Surgery, Presenter, Internal Medicine Residency Conference 6/27/15
- Patients with Palpitations, Presenter, Cardiac Arrhythmias 2015 Conference, University of California, Davis Medical Center, 8/15/15.
- ECG Workshop, Presenter, Cardiac Arrhythmias 2015 Conference, University of California, Davis Medical Center, 8/15/15.
- Secondary Prevention Cocktail: The Key Ingredients (ACS), Invited Speaker, California Central Valley Nurses Association Fall Lecture Series, Granite Bay, CA, 10/3/15
- Evaluation of the Cardiac Patient for Non-cardiac Surgery, Invited Speaker, Current Concepts in Primary Care Cardiology, UC Davis Health System, San Diego, CA, 9/28/16.
- Exercise Stress Testing: Which Test for Which Patient, Invited Speaker, Current Concepts in Primary Care Cardiology, UC Davis Health System, San Diego, CA, 9/28/16.

- Roundtable Discussion - When to Order an Echo: How to Interpret the Report, Invited Speaker, Current Concepts in Cardiology, UCD Health System, San Diego, CA, 9/29/16.
- Roundtable Discussion - When to Order and Echo: How to Interpret the Report, Invited Speaker, Current Concepts in Clinical Cardiology, UCD Health System, San Diego, CA, 9/30/16
- Leadership Training in Interprofessional Education. Invited Speaker. Harvard Macy Institute. Boston, MA, Jan 2017
- Invited Speaker Sacramento Echo and Vascular Society Meeting Topic “Updates in Diastolic dysfunction” Sacramento, CA 11/1/17
- Cardiology Jeopardy, Presenter, Clinical Cardiology Conference, University of California, Davis Medical Center, 8/12/18
  - Protein losing Enteropathy in Fontan Patients, Presenter, Cardiology Grand Rounds, University of California, Davis Medical Center, 2/15/19.
  - Reimaging Education: Updates in Continuing Medical Education, Counsel of Managers University of California, Davis Medical Center 3/15/19
  - Reimaging Education: Updates in Continuing Medical Education, Counsel of Chairs University of California, Davis Medical Center 4/20/19
  - Lecture: "Strain Imaging by Echocardiography", Clinical Cardiology Conference University of California, Davis School of Medicine, 4/20/2020
  - *Internal Medicine Grand Rounds* “A Serious Case of ST Elevations” Roshni Khatiwala, MD Resident Physician, **Sandhya Venugopal, MD** UCDH SOM. Dept. of Internal Medicine 1/21/21
  - *Internal Medicine Grand Rounds* “A Curious Case of a Transplant and a Post-Op Octopus Pot” Daniel Hogan Slack, MD Resident Physician, **Sandhya Venugopal, MD** UCDH SOM Dept. of Internal Medicine 7/15/21

## GRANTS & CONTRACTS

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### *Grants*

PI: Radhika Bukkapatnum, MD

Co-PI: Sandhya Venugopal, MD

American College of Cardiology’s Accreditation Foundation Committee awarded UC Davis Health \$100,000 to support the work described in your Quality Initiative proposal titled “BUILDING A MEDICAL HOME: A PATIENT-PARTICIPATION APPROACH TO TRANSITIONING CONGENITAL HEART DISEASE PATIENTS FROM ADOLESCENCE TO ADULTHOOD”.

Date of grant: 11/1/21-10/31/22

### *Completed Grants*

Collaborator, Grant #200513172, \$35,624, Collaborator, REALISM - Real World ExpANded Multicenter Study of the MitraClip(R) System, Evalve ;2009

Collaborator, Grant #NCT01626079, \$114,230, Co-Principal Investigator, CoApt. Clinical Outcomes Assessment of the MitraClip Percutaneous Therapy for Extremely High-Surgical-Risk Patients, Abbott Vascular, Inc.; 2013

Collaborator, HEARD-IT Trial Secondary Results: S3 Strength and BNP; \$8,600; 2006

Collaborator, EVEREST II. Endovascular Valve Edge-to-Edge REpair STudy. A Study of the Evalve Percutaneous Mitral Repair (PMR) System, EVALVE; \$10,702, 2008-2011

Collaborator, RESPONSE HF: Response of Cardiac Resynchronization Therapy Optimization with V-V Timing in Heart Failure Patients; \$7,303; 2006-2010

Collaborator, Ventricular Rate Regularization, Guidant Boston Scientific Corp., \$60,000; 2007-2009

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## PUBLICATIONS & ABSTRACT PRESENTATIONS

1. "Women's Health Curricula: A Current Review of the Literature", Dept. of Internal Medicine; University of Kentucky College of Medicine, Lexington, KY. Abstract presented at the Society of General Internal Medicine annual scientific conference, southern region; New Orleans, LA; 1998
2. "V Colitis Initially Presenting As Typhilitis", Dept. of Medicine VA Medical Center; Oregon Health Sciences University, Portland OR. Abstract presented at the ACP-ASIM annual scientific session, Oregon chapter; Eugene, OR; 2000
3. Development of "Guideline for Physical Activity" to be used by Internal Medicine Physicians, Kaiser Permanente EPICare system Portland, OR; 2003
4. "Cardiac Resynchronization Therapy: Echocardiographic Applications", Presented at the Chicago Echocardiography Society Meeting; 2005
5. "2D Strain Predicts Early Myocardial Dysfunction in Hypertensive and Diabetic Patient", Rush University Medical Center, Chicago IL. Abstract submitted to the American Heart Association Scientific Meeting; 2005
6. Alkhulaif A, Julie I, Calrke S, Barton J, Yao A, **Venugopal S**, Bair A "Participant Preceptions of Asynchronous Video Debriefing for In-Situ Mock Codes", University of California, Davis. Sacramento, CA. Abstract presented at Society for Academic Emergency Medicine, San Diego, CA 5/2015
7. Sab S, Dhruva SS, Paulsen J, Sidhu RS, Amsterdam EA, **Venugopal S**. Here Today, Gone Tomorrow. *Am J Med.* 2015 Dec;128(12):e7-9.
8. **Sandhya Venugopal MD**, Theresa Murdock-Vlautin MD, Erin Griddin PhD, Mark Henderson MD, Mark Servis MD "Enhancing Critical Thinking in First Year Medical Students Through Simulation : A Pilot Curriculum University of California, Davis. Sacramento, CA. Abstract presented at Western Group on Educational Affairs (AAMC) Tucson, AZ 4/2016

9. Samuel Clarke MD, MAS; Kevin Floyd RN, BSN, CCRN; Joleen Lonigan RN, MSN; Amy Doroy RN, MS; Taufaa Lee RN; Aubrey Yao MD; Ian Julie MD, MAS; Erin Nagle PharmD; Matthew Kiefer MD; **Sandhya Venugopal MD**; Muna AlJahany MD; Aaron Danielson MD; Zoya Derebenskiy BA, BS; Aaron Bair MD, MsC . “Beyond the code sheet: a novel instrument for evaluating code team performance” Poster Presentation UC Davis QI Symposium 5/2016
10. Stauber SM, Teleten A, Li Z, **Venugopal S**, Amsterdam EA. Prognosis of Low-Risk Young Women Presenting to the Emergency Department With Chest Pain. *Am J Cardiol*. 2016 Jan 1;117(1):36-9.
11. Doung T, Malik L, **Venugopal, S**, Amsterdam EA. Fulminant Not Fatal. *Am J Med*. 2016 July Volume 129, Issue 7, Pages e47–e49
12. Evelyn B. Ling, MD, Taylor L. Stayton, MD, Benjamin R. Stripe, MD, Uma Srivatsa MD, Ezra Amsterdam MD, **Sandhya Venugopal, MD**. Too Fast for Comfort: Tachycardia in Postablation Wolff-Parkinson-White *Am J Med*, Vol 129, No 11, November 2016, pages e269-e272. <http://dx.doi.org/10.1016/j.amjmed> 2016.05.026
13. Ezra A. Amsterdam, MD, **Sandhya Venugopal, MD**, Jonathan Bui, MD, Balasingam Thevakumar, MBBS, Angela Thinda, MD, Sabrina Virk, MD, William J. Bommer, MD, Aman Khullar, MD, Gagan Singh, MD. Management of Hypertension: JNC 8 and beyond. *Cardiovascular Innovations and Beyond* Vol. 1 No. 4 (2016) 409–416I SSN 2009-8618 DOI 10.15212/CVIA.2016.0030
14. Ali Alkhulaif, Ian Julie, Joseph Barton, Erin Nagle, Aubrey Yao, Samuel Clarke, **Sandhya Venugopal**, William Hammontree, Jose Ramirez, Karrin Dunbar, Christain Sebat Maria do Carmo Barros de Melo, Aaron Bair. In Situ Simulation: advantages, challenges and obstacles. *Latin Am J Telehealth*, 2016; 3 (2): 133-140
15. Stauber BD, **Venugopal S**, Amsterdam EA. Treading Lightly:ST elevation in Exercise Electrocardiography *Am J Med* January 2017 Volume 130, Issue 1, Pages 34–36 [http://www.amjmed.com/article/S0002-9343\(16\)30787-2/fulltext](http://www.amjmed.com/article/S0002-9343(16)30787-2/fulltext)
16. Ezra A. Amsterdam, **Sandhya Venugopal**. Utility of simplicity for low risk chest pain patients (editorial). *Eur Heart Journal Acute Cardiovascular Care* April 21, 2017 DOI: 10.1177/2048872617706295.
17. Moneer Eddin MD, **Sandhya Venugopal MD**, Brittany Chatterton MD, Angela Thinda MD, Ezra A Amsterdam MD. Longterm Prognosis of Low Risk Women Presenting to the Emergency Department with Chest Pain. *Am J Med* April 2017
18. Roger A. Edwards, **Sandhya Venugopal**, Deborah Navedo & Subha Ramani (2017): Addressing needs of diverse stakeholders: Twelve tips for leaders of health professions education programs, *Medical Teacher*, DOI:10.1080/0142159X.2017.1396307
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44. Amanda Panh MD, Cathy Xu MD, **Sandhya Venugopal MD**. Case of Digoxin Toxin. Poster presentation at Dept. Internal Medicine Academic Forum. University of California, Davis Health March 2022
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## BOOK CHAPTERS

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## MENTEES

2006-2009	Houshang Karimi, MD, Cardiovascular Fellow
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2006-2009	Andrew Praserthdam, MD, Cardiovascular Fellow
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2006-2009	Radhika Bukkapatnam, MD, Cardiovascular Fellow

2006-2009	Ryan Brown, MD, Cardiovascular Fellow
2006-2009	Amogh Bhat, MD, Cardiovascular Fellow
2006-2009	Khung Keong Yeo, MD, Cardiovascular Fellow
2006-2009	Melissa Robinson, MD, Cardiovascular Fellow
2006-2009	Andrew Kwa, MD, Cardiovascular Fellow
2006-2009	Thomas Smith, MD, Cardiovascular Fellow
2006-2009	Kathleen Tong, MD, Cardiovascular Fellow
2007-2010	Jennifer Rosenthal, Preceptor, Doctoring 2 Physical Diagnosis
2007-2010	Javier Lopez, MD, Cardiovascular Fellow
2007-2010	Luis Castellanos, Cardiovascular Fellow
2007-2010	John Ko, MD, Cardiovascular Fellow
2007-2010	William Phillips, MD, Cardiovascular Fellow
2008-2011	Yasir Batres, MD, Cardiovascular Fellow
2008-2011	Patrick Gamp, MD, Cardiovascular Fellow
2008-2011	Vinod Kannarkat, MD, Cardiovascular Fellow
2008-2011	Kenneth Mayuga, MD, Cardiovascular Fellow
2009-2012	Alyssa Browning, MD, Cardiovascular Fellow
2009-2012	Jeffrey Levisman, MD, Cardiovascular Fellow
2009-2012	Patrick McGinty, MD, Cardiovascular Fellow
2009-2012	Reza Sepehrdad, MD, Cardiovascular Fellow
2010-2013	Moneer Eddin, MD, Cardiovascular Fellow
2010-2013	Daniel Jurewitz, MD, Cardiovascular Fellow
2010-2013	Wayland Lim, MD, Cardiovascular Fellow
2010-2013	Faramarz Tehrani, MD, Cardiovascular Fellow
2011-2014	Anu Agarwal, MD, Cardiovascular Fellow
2011-2014	Eric Nordsieck, MD, Cardiovascular Fellow
2011-2014	Gagan Singh, MD, Cardiovascular Fellow
2011-2014	Clifton Watt, MD, Cardiovascular Fellow
2012-2015	Ivan Anderson, MD, Cardiovascular Fellow
2012-2015	Sanket Dhruva, MD, Cardiovascular Fellow
2012-2015	Stephen Morrissy, MD, Cardiovascular Fellow
2012-2015	Jeffrey Paulsen, MD, Cardiovascular Fellow
2013-2016	Ronald Garcia, MD, Cardiovascular Fellow
2013-2016	Syed Latif, MD, Cardiovascular Fellow
2013-2016	Lindsey Malik, MD, Cardiovascular Fellow
2013-2016	Ting Tsai, MD, Cardiovascular Fellow
2014-2016	Jeong Choi, MD, Cardiovascular Fellow
2014-2017	Ravinder Kahlon, MD, Cardiovascular Fellow

2014-2017	Gaurav Sharma, MD, Cardiovascular Fellow
2014-2017	Benjamin Stripe, MD, Cardiovascular Fellow
2015-2018	Edris Aman, MD, Cardiovascular Fellow
2015-2018	Matthew Glassy, MD, Cardiovascular Fellow
2015-2018	John Javien, MD, Cardiovascular Fellow
2015-2018	Bradley Stauber, MD, Cardiovascular Fellow
2016-2019	Stacy Howell, MD, Internal Medicine Resident
2016-2019	Gaurav Sharma, MD, Cardiovascular Fellow
2016-2019	Stacy Howell, MD, Internal Medicine Resident (applied for cardiology fellowship-OHSU)
2016-2019	Steve Cocciardi MD, Internal Medicine Resident (applied for pulmonary fellowship)
2017-2020	Pooja Prasad, MD, Internal Medicine Resident (applied for cardiology fellowship-OHSU)
2017-2020	Amir Farid, MD, Cardiovascular Fellow
2017-2020	Moosa Haider, MD, Cardiovascular Fellow
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