**Curriculum Vitae**

Anuj Gupta, MD FACC, FSCAI

Associate Professor of Medicine

University of Maryland School of Medicine

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**Contact Information**

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**Education**

1994                     B.A. Biology, Johns Hopkins University, Baltimore, MD

1998                    M.D., University of Maryland School of Medicine, Baltimore, MD

**Post Graduate Education and Training**

1998 – 2001 Internship/Residency, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY

2001 - 2003 Fellowship, Weill Medical College, Cornell University, New York, NY

Howard Gilman Institute for Valvular Heart Disease Cardiovascular Research Fellow, Division of Cardiovascular Pathophysiology, Department of Medicine

2003 - 2006 Cardiology Fellowship, Temple University Hospital

2006 – 2008 Fellowship, Interventional Cardiology, New York Presbyterian Hospital, Columbia University Medical Center

**Certifications**

2001                  American Board of Internal Medicine

2006, 2016                  Cardiovascular Disease

2007, 2017                Interventional Cardiology

**Medical Licensures**

Inactive New York

Inactive Connecticut

Inactive Pennsylvania

Active Maryland

**Employment History:**

**Academic Appointments**

2004-2006 Clinical Instructor, Medicine, Temple University Hospital

2006-2008 Clinical Instructor, Medicine, Columbia University Medical Center

2008-present Assistant Professor of Medicine, Division of Cardiovascular Medicine, University of Maryland School of Medicine

2018-present Associate Professor of Medicine, Division of Cardiovascular Medicine, University of Maryland School of Medicine

**Professional Society Membership**

2008-Present Fellow of the American College of Cardiology

2008-Present Fellow of the Society for Coronary Angiography and Intervention

**Honors And Awards**

2001 Outstanding Achievement in the Teaching of Medical Students, Leo M. Davidoff Society of the Albert Einstein College of Medicine of Yeshiva University

2012 Teacher of the Year Award, University of Maryland Division of Cardiology

2016, 2017, 2019 Baltimore Magazine, Top Doctor

2018 American College of Cardiology, Maryland Chapter Founders Award

**Clinical Activities**

2008-Present Creator and Director, Radial Artery Access Catheterization Program

* Developed radial artery catheterization program by teaching the cath lab about the benefits of radial artery catheterization
* Teach fellows the technically more challenging procedure
* Promote radial artery catheterization in the community by organizing radial artery catheterization courses
* Proctor other cath labs in the state

2011-Present Co-creator and Director, Transcatheter Aortic Valve Replacement (TAVR) Program

* Oversee all elements of the program
* Triage inpatient and outpatient referrals
* Manage evaluation of TAVR patients through the system, providing all patients with my cellphone for direct contact to navigate across the system
* Completed 170 TAVRs from 2012-2016, with 100 TAVRs projected for FY 2016
* Assist in marketing the program via outreach to referring physicians through dinner programs held at least once bimonthly and 24/7/365 day availability
* Coordination of the weekly multidisciplinary conference on TAVR; attended by cardiac surgery attendings, fellows, NPs, and research coordinators (total 8-10 people)

**Institutional Service**

2006-2008 Assistant Attending, Cardiology, New York Presbyterian Hospital, Columbia University Medical Center Clinical Instructor, Medicine

* Service attending on cardiology floor service for 1 month a year at CUMC
* ICU attending at the Allen Pavilion at CUMC for 1 month for the year
* Weekend rounds on all PCI patients and TAVR patients

2010-2012 Director, Cardiac Prep and Recovery Unit

* Provided physician supervision and support for this cardiac unit including nurse practitioners and nurses
* Implemented policies to accommodate changes in volume, including new overnight stay for patients to reduce bed requirements in main hospital
* Created a forum for the staff in the unit to express concerns and address improvements
* Addressed changes in Medicare reimbursement to shift overnight stays from “inpatient” services to extended recovery, potentially resulting in lost revenue
* Total time spent approximately 1 hour/ week

2011-2012 Director, Baltimore VA Cath Lab

* Supervised 2 nurses, 2 RTs and 4 interventional cardiologists for the VA
* Ensured compliance with VA regulations for the lab, including morbidity and mortality review, performance improvement initiatives, and implementation of a new computer system for the lab
* Initiated initiative to have vascular surgery perform procedures in the cath lab to improve lab productivity
* Total time spent approximately 10 hours/ week

2012-2013 At-large member, Medical Executive Committee, University of Maryland Medical Center

* Attended monthly meetings with physician leadership for UMMC
* Provided input to senior medical leadership on issues impacting cardiovascular medicine as well as faculty

2008-Present Director, Cath Lab Peripheral Interventions

* Introduced peripheral interventions into the cardiac cath lab at UMMC
* Collaborated with Vascular Surgery to bring additional peripheral cases to the Cath lab, reducing length of stay and improving hospital efficiencies
* Teach interventional and structural fellows basics in peripheral intervention

2012-Present Director, University of Maryland Cardiac Cath Lab

* Oversee staff of 21 nurses and techs, 4 full-time cardiovascular medicine faculty, and 3 part-time interventional cardiology faculty
* Annual budget of $3.8 million for supplies
* Oversight of over 2600 diagnostic and interventional procedure, with over 500 interventional procedures each year
* Responsible for quality, performance improvement, internal peer review, and STEMI performance
* Staff Interventional Cardiologist, with approximately 125 PCI’s/year predominantly radial access interventions, including STEMI’s
* Staff Peripheral Interventionist
* Responsible for developing strategies necessary to maintain volume when affiliated hospitals open cath labs and establish contacts to become the primary or secondary referral center of choice for cardiovascular specialists in the state, primarily through 24/7 availability

2016-Present Director, Carroll Hospital Center Cath Lab

* Supervise quality and performance of PCI in this hospital without cardiac surgery
* In that role, provide support related to a $675,000 annual contract CHC has with University of Maryland Department of Medicine to provide interventional cardiology services at CHC
* Train nurses and techs at CHC (average experience level in cath lab under 2 years) on basics of interventional cardiology

**National Service**

2012-Present Guest Reviewer, *Journal of Cardiothoracic and Vascular Anesthesia*

* Review 1 journal articles per year on average

2012-Present Editorial Board, *Journal of Invasive Cardiology*

* Review 4 journal articles per year on average

2013-Present *Ad Hoc* Reviewer, *Clinical Journal of the American Society of Nephrology*

* Review 1 journal article per year on average

2014-Present Reviewer, Catheterization and Cardiovascular Interventions

* Review 1-2 journal articles per year on average

2017-2018 Associate Editor, *Cardiology* (Karger)

2015-2018 Governor, American College of Cardiology

* Attend 4 national meetings a year as part of the leadership structure of the American College of Cardiology
* As part of national leadership, provide guidance on implantation of the strategic plan, changes in governance, and insight into developing issues to the College
* Utilize knowledge gained back to the state chapter to encourage and motivate involvement in the ACC

**Local Service**

2004 Elected Member, Temple University Performance Improvement Committee

2010-Present Maryland State Cardiac Data Advisory Committee

2010-Present Co-Principal and Co-Founder, Maryland Academic Consortium PCI Appropriateness and Quality (MACPAQ)

* A joint project between the interventional cardiologists of UMMC and JHH to address concerns of inappropriate PCI performed in the State of Maryland after events at St. Joseph’s Hospital in Towson and Peninsula Regional Medical Center in Salisbury
* This Consortium performs blinded evaluation of PCI procedures including a review of appropriateness, quality and documentation
* MACPAQ now provides external peer review for 18 of 23 hospitals offering PCI services, as part of a new state law requiring external peer review

2011-2015 Secretary, Maryland Chapter, American College of Cardiology (ACC)

2015-2018 President, Maryland American College of Cardiology

* Communicate with the state’s cardiologists on key issues
* Involve trainees and newly minted cardiovascular specialists into the ACC
* Discuss policy issues with state and federal legislators and regulators
* Organize the annual Maryland ACC meeting

**Teaching Service**

2008-Present Full Time Faculty Cardiac Catheterization Lab (36 weeks/yr)

2008-Present Lead Interventional Cardiologist in the TAVR Program

2008-Present Interventional Cardiology core curriculum conference (36 weeks/yr)

2008-Present Cardiology PCU and Consult Service UMMC (1 weeks/year)

2008-Present Annual cardiology fellowship core curriculum summer lecture series.

2008-Present Cardiology Clinical Conference Mentor (bi-annual)

2009-2010Instructor of second year student School of Medicine cardiology clinical correlation

2012, 2013 Course Director, Baltimore Transradial Summit

2012 Lecturer, UM SOM small group sessions led by Shawn Robinson, MD

2011, 2013 Course Director, Baltimore Vascular Symposium

**ADVISING AND MENTORING**

**Interventional Cardiology Fellows (PGY 7)**

An Advisor and Instructor for Fellows (PGY 7) in UM Interventional Cardiology Fellowship:

2008-2009 Dr. Jay Pandhi (coronary)-- Private Practice, San Diego, California (provided guidance when switching practices)

 Dr. Farhan Majeed (coronary)-- Private Practice, Florida (provided letters of recommendation and contact support for his late career structural fellowship at Mount Sinai)

2009-2010 Dr Preston Perrin (coronary)-- Private Practice, Arlington, Virginia (provided guidance and contacts when switching practices)

 Dr Scott Katzen (coronary)—Director Cardiac Cath Lab, Anne Arundel Medical Center Annapolis, Maryland (provide ongoing support for leadership role)

2010-2011 Dr David Harding (coronary) Private Practice, North Carolina

 Dr Matthew Nolan (coronary) -- Private Practice, Reading Pennsylania

2011-2012 Dr. Ibrahim Abu-Romeh (coronary)-- Private Practice, Michigan
Dr. Mukta Srivastava (coronary)-- Faculty at UMSOM (recruited colleague and work on faculty development)

2012-2013 Dr. Kristin Roussillion (coronary)-- Private Practice, Florida (provided early support for complex procedures and clinical scenarios)

 Dr. Jeremy Bock—(coronary) Private Practice, Arlington, Virginia (provided guidance when switching practices)

 Dr. Dan Bellin (coronary)-- US Army Active Duty (provided support and guidance when expanding into structural work for US Army)

2013-2014 Dr. Sean Enkiri (coronary)-- Private Practice, Denver, Colorado (providing ongoing support for complex cases and expansion into structural work)

 Dr. Amir Najafi (coronary)-- Private Practice, Sinai Hospital, Baltimore Maryland (provide ongoing support for complex cases and expansion into structural work)

 Dr. Elan Burton (Cardiac Surgery/ Structural Fellow)—Have provided ongoing career guidance and support, including letters and calls for her current position at Stanford University School of Medicine as cardiac surgery faculty

2014-2016 Dr. Shumile Zaidi (coronary and structural fellow)-- Attending at UMMS St Joseph’s Hospital

 Dr. Brad Pfeffer (coronary)-- Private Practice, Sinai Hospital in Baltimore, Maryland (ongoing clinical support and guidance as well as career support and guidance)

2015-2017 Dr. Eric Ginsberg (coronary and structural)-- Private practice at Anne Arundel Medical Center, Annapolis, Maryland

2016-2018 Dr. Diljon Chahal, MD (coronary and structural)—Faculty at University of Maryland

2017-2019 Shalin Patel, MD (coronary and structural)—Private practice in Maui, Hawaii

2018-2020 Melsi Shkullaku (coronary and structural)—Private practice Washington Adventist Hospital, Takoma Park, MD

2019-2021 Hani Al-Khatib (coronary and structural)

**Research Funding**

**Active Contracts:**

02/02/12-02/01/17 Principal Investigator (0% salary support)

 Renal Denervation in Patients with Resistant Hypertension (SYMPLICITY HTN-3)

 Trial Sponsor: Medtronic

 Revenue: ($121,954.65)

10/15/11-10/14/16 Co- Principal Investigator (0% salary support)

 Placement of AoRTic TraNscathetER Valves (PARTNER II trial)

 Trial Sponsor: Edwards

Revenue: $413,859.19

12/29/14-12/28/22 Co- Principal Investigator (0% salary support)

 The SALUS Trial

 Trial Sponsor: Direct Flow

 Revenue: $4,171.65

01/01/2014-current Co-Principal Investigator 🡪 Study with Jin-Oh Hahn, PhD (investigator initiated study)

 Estimation of central aortic pressures via use of blood pressure cuffs

**Pending Contracts:**

1. Site PI for the GALILEO trial, which studies anti-coagulation therapies in post-TAVR patients
2. Site PI for the REDUCE HTN: REINFORCE trial, a pivotal trial evaluating renal denervation therapy for patients with resistant or difficult to treat hypertension

**Publications**

**Peer Reviewed Journal Articles**

1. Jain VK, **Gupta A**, Magrath IT.  A rapid screening method for bacteria containing firefly luciferase plasmids. Biotechniques, 1993 Oct; 15(4): 600-2
2. Borer JS, Truter S, Herrold EM, Supino PG, Carter JN, **Gupta A**.  The cellular and molecular basis of heart failure in regurgitant valvular diseases: the myocardial extracellular matrix as a building block for future therapy.  Advances in Cardiology 2002; 39: 7-14.
3. Borer JS, Truter SL, **Gupta A**, Herrold EM, Carter JN, Lee E, Pitlor L.  Heart failure in aortic regurgitation: the role of primary fibrosis and its cellular and molecular pathophysiology.  Adv Cardiol. 2004; 41: 16-24.
4. [**Gupta A**](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&amp;cmd=Search&amp;itool=pubmed_Abstract&amp;term=%22Gupta+A%22%5BAuthor%5D)**,** [Carter JN](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&amp;cmd=Search&amp;itool=pubmed_Abstract&amp;term=%22Carter+JN%22%5BAuthor%5D), [Truter SL](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&amp;cmd=Search&amp;itool=pubmed_Abstract&amp;term=%22Truter+SL%22%5BAuthor%5D), [Leer EH](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&amp;cmd=Search&amp;itool=pubmed_Abstract&amp;term=%22Leer+EH%22%5BAuthor%5D), [Herrold EM](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&amp;cmd=Search&amp;itool=pubmed_Abstract&amp;term=%22Herrold+EM%22%5BAuthor%5D), [Borer JS](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&amp;cmd=Search&amp;itool=pubmed_Abstract&amp;term=%22Borer+JS%22%5BAuthor%5D).  Cellular response of human cardiac fibroblasts to mechanically simulated aortic regurgitation.  Am J Ther. 2006 Jan-Feb; 13 (1): 8-11.
5. **Gupta A**, Burke JA, and Bove A.  Coronary Artery Revascularization—Past, Present Future. Part 1: Historical Trials.  Clin. Cardiol. 29, 341–344 (2006)
6. **Gupta A**, Burke JA, and Bove A.  Coronary Artery Revascularization—Past, Present Future. Part 2: Newer Technologies.  Clin. Cardiol. 29, 290–294 (2006)
7. [Supino PG](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Supino%20PG%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Borer JS](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Borer%20JS%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Schuleri K](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Schuleri%20K%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [**Gupta A**](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Gupta%20A%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Hochreiter C](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Hochreiter%20C%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Kligfield P](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Kligfield%20P%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Herrold EM](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Herrold%20EM%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus), [Preibisz JJ](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&amp;Cmd=Search&amp;Term=%22Preibisz%20JJ%22%5BAuthor%5D&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_RVAbstractPlus).  Prognostic value of exercise tolerance testing in asymptomatic chronic nonischemic mitral regurgitation.   Am J Cardiol. 2007 Oct 15;100(8):1274-81
8. Solinas E, Dangas G, Kirtane AJ, Lansky AJ, Franklin-Bond T, Boland P, Syros G, Kim YH, **Gupta A**, Mintz G, Fahy M, Collins M, Kodali S, Stone GW, Moses JW, Leon MB, Mehran R.  [Angiographic patterns of drug-eluting stent restenosis and one-year outcomes after treatment with repeated percutaneous coronary intervention.](http://www.ncbi.nlm.nih.gov/pubmed/18638592?ordinalpos=4&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)  Am J Cardiol. 2008 Aug 1;102(3):311-315
9. Truter SL, Catanzaro DF, Supino PG, **Gupta A**, Carter J, Herrold EM, Dumlao TF, Borer JS.  [Differential expression of matrix metalloproteinases and tissue inhibitors and extracellular matrix remodeling in aortic regurgitant hearts.](http://www.ncbi.nlm.nih.gov/pubmed/19129699?ordinalpos=2&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)  Cardiology. 2009;113(3):161-168
10. Truter SL, Catanzaro DF, Supino PG, **Gupta A**, Carter J, Ene AR, Herrold EM, Dumlao TF, Beltran F, Borer JS.  [Fibronectin gene expression in aortic regurgitation: relative roles of mitogen-activated protein kinases.](http://www.ncbi.nlm.nih.gov/pubmed/19299894?ordinalpos=1&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)  Cardiology. 2009;113(4):291-298
11. **Gupta A**, Mancini D, Kirtane AJ, Kaple RK, Apfelbaum MA, Kodali SK, Marboe C, Leon MB, Moses JW, Rabbani LE.  [Value of drug-eluting stents in cardiac transplant recipients.](http://www.ncbi.nlm.nih.gov/pubmed/19231329?ordinalpos=2&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)  Am J Cardiol. 2009 Mar 1;103(5):659-662
12. Kirtane AJ, **Gupta A**, Iyengar S, Moses JW, Leon MB, Applegate R, Brodie B, Hannan E, Harjai K, Jensen LO, Park SJ, Perry R, Racz M, Saia F, Tu JV, Waksman R, Lansky AJ, Mehran R, Stone GW.  [Safety and efficacy of drug-eluting and bare metal stents: comprehensive meta-analysis of randomized trials and observational studies.](http://www.ncbi.nlm.nih.gov/pubmed/19528338?ordinalpos=1&amp;itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)  Circulation. 2009 Jun 30;119(25):3198-3206
13. Cilingiroglu M, **Gupta A**. The laa occlusion paradigm: are we there yet? [Catheter Cardiovasc Interv.](http://www.ncbi.nlm.nih.gov/pubmed?term=cilingiroglu%20gupta) 2011 Nov 15;78(6):974-5
14. Sanidas EA, Maehara A, Mintz GS, Kubo T, **Gupta A**, Apfelbaum MA, Hakim D, Moses JW, Mancini DM, Rabbani LE. Volumetric intravascular ultrasound assessment of mechanisms and results of stent expansion in heart transplant patients. Catheter Cardiovasc Interv. 2012 Mar 28
15. Remo BF, Preminger M, Bradfield J, Mittal S,  Boyle N, **Gupta A**, Shivkumar K, Steinberg JS, Dickfeld T. Safety and Efficacy of Renal Denervation as a Novel Treatment for Ventricular Tachycardia Storm in Patients with Cardiomyopathy. Heart Rhythm 2014 Apr;11(4):541-546
16. Godiwala T, Srivastava M, **Gupta A**. Reperfusion Strategies and Systems of Care in ST- Elevation Myocardial Infarction. Cardiology Clinics 2012: 30 (4), 629-637
17. Motwani M, Motlagh M, **Gupta A**, Berman DS, Slomka P. Reasons and implications of agreements and disagreements between coronary flow reserve, fractional flow reserve, and myocardial perfusion imaging. Journal of Nuclear Cardiology. Online December 29, 2015
18. Rollor J, Feldmeier R, Jerome S, **Gupta A.** Reconciling discordant myocardial perfusion imaging and coronary angiography. Journal of Nuclear Cardiology. Accepted December 18th, 2015
19. **Gupta A**, Rajagopalan S. Letter by Gupta regarding article, "Coronary Heart Disease Mortality Declines in the United States From 1979 Through 2011: Evidence for Stagnation in Young Adults, Especially Women". Circulation. Accepted November 29th, 2015
20. **Gupta A**, Yeh R, Tamis-Holland JE, Patel SH, Guyton RA, Klein LW, Rab T, Kirtane AJ. Implications of Public Reporting of Risk-Adjusted Mortality following PCI: Misperceptions and Potential Consequences for High-Risk Patients including the Non-Surgical Patient. J Am Coll Cardiol Intv. 2016;9(20):2077-2085
21. Lingel J, Srivastava M, **Gupta A**. Management of coronary artery disease and acute coronary syndrome in the chronic kidney disease population-A review of the current literature. [Hemodial Int.](https://www.ncbi.nlm.nih.gov/pubmed/?term=srivastava+gupta+lingel) 2017 Jan 17
22. George P, Srivastava MC, Ludmir J, Reed RM, Tewelde SZ, **Gupta A**, McCurdy MT. “Augmenting Function for Infarction from Infection: Impella 2.5 for Ischemic Cardiogenic Shock Complicating Sepsis,” Case Reports in Cardiology, vol. 2017, Article ID 8407530, 4 pages, 2017
23. Mori H, **Gupta A**, Torii S, Harari E, Jinnouchi H, Virmani R, Finn AV. Clinical Implications of Blood- Material Interaction and Drug Eluting Stent Polymers in Review. Expert Rev Med Devices. 2017 Aug 11 :1-10.
24. Mori H, Otsuka F, **Gupta A**, Jinnouchi H, Torii S, Harari E, Virmani R, Finn AV. Revisiting the role of durable polymers in cardiovascular devices. [Expert Rev Cardiovasc Ther.](https://www.ncbi.nlm.nih.gov/pubmed/28990450) 2017 Nov;15(11):835-846
25. Sakamoto A, Virmani R, Finn AV, **Gupta A**. Calcified Nodule as the Cause of Acute Coronary Syndrome: Connecting Bench Observations to the Bedside. Cardiology. 2018 Jan 5;139(2):101-104
26. Guo L, Akahori H, Harari E1, Smith SL, Polavarapu R, Karmali V, Otsuka F, Gannon RL, Braumann RE, Dickinson MH, **Gupta A**, Jenkins AL, Lipinski MJ, Kim J, Chhour P, de Vries PS, Jinnouchi H, Kutys R1, Mori H1, Kutyna MD1, Torii S1, Sakamoto A1, Choi CU2, Cheng Q1, Grove ML6, Sawan MA, Zhang Y, Cao Y, Kolodgie FD, Cormode DP, Arking DE, Boerwinkle E, Morrison AC, Erdmann J, Sotoodehnia N, Virmani R, Finn AV. CD163+ macrophages promote angiogenesis and vascular permeability accompanied by inflammation in atherosclerosis. J Clin Invest. 2018 Feb 19.
27. [Ludmir J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ludmir%20J%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [Liu X](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20X%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [**Gupta A**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gupta%20A%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [Ramani GV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ramani%20GV%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [Liu SS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Liu%20SS%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [Zakaria S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Zakaria%20S%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [Verceles AC](https://www.ncbi.nlm.nih.gov/pubmed/?term=Verceles%20AC%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [Shah NG](https://www.ncbi.nlm.nih.gov/pubmed/?term=Shah%20NG%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), [McCurdy MT](https://www.ncbi.nlm.nih.gov/pubmed/?term=McCurdy%20MT%5BAuthor%5D&cauthor=true&cauthor_uid=30228906), Dammeyer JA, [Netzer G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Netzer%20G%5BAuthor%5D&cauthor=true&cauthor_uid=30228906). Cardiologist perceptions of family-centered rounds in cardiovascular clinical care. Open Heart. 2018 Sep 5;5(2):e000834
28. [Jinnouchi H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jinnouchi%20H%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Mori H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mori%20H%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Cheng Q](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cheng%20Q%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Kutyna M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kutyna%20M%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Torii S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Torii%20S%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Sakamoto A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sakamoto%20A%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Guo L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Guo%20L%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Acampado E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Acampado%20E%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), **Gupta A**, Kolodgie FD, [Virmani R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Virmani%20R%5BAuthor%5D&cauthor=true&cauthor_uid=30375338), [Finn AV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Finn%20AV%5BAuthor%5D&cauthor=true&cauthor_uid=30375338). Thromboresistance and Functional Healing in the COBRA PzF Stent versus Competitor DES: Implications for Dual Anti-Platelet Therapy. EuroIntervention. 2018 Oct 30
29. [Harari E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Harari%20E%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Guo L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Guo%20L%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Smith SL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Smith%20SL%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Paek KH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Paek%20KH%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Fernandez R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fernandez%20R%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Sakamoto A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sakamoto%20A%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Mori H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mori%20H%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Kutyna MD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kutyna%20MD%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Habib A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Habib%20A%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Torii S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Torii%20S%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Cornelissen A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cornelissen%20A%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Jinnouchi H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jinnouchi%20H%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [**Gupta A**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gupta%20A%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Kolodgie FD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kolodgie%20FD%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Virmani R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Virmani%20R%5BAuthor%5D&cauthor=true&cauthor_uid=30026269), [Finn AV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Finn%20AV%5BAuthor%5D&cauthor=true&cauthor_uid=30026269). Direct Targeting of the mTOR (Mammalian Target of Rapamycin) Kinase Improves Endothelial Permeability in Drug-Eluting Stents-Brief Report. [Arterioscler Thromb Vasc Biol.](https://www.ncbi.nlm.nih.gov/pubmed/30026269) 2018 Sep;38(9):2217-2224
30. Srivastava M, Varrichio C, **Gupta A**. Same-Day Discharge After Percutaneous Coronary Intervention—An Elusive Bargain. JAMA Cardiol. 2019;4(5):495-496
31. Zhang J, Khalifeh A, Dominguez RS, Bruno D, **Gupta A**, Toursavadkohi S. Endovascular Reconstruction of the Hepatic Arteries for the Management of Mycotic Hepatic Artery Pseudoaneurysm in a Liver Transplant Patient. Annals of Vascular Surgery. 2019 Nov; 61: 473.e7-473
32. [Torii S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Torii%20S%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Jinnouchi H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jinnouchi%20H%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Sakamoto A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sakamoto%20A%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Kutyna M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kutyna%20M%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Cornelissen A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Cornelissen%20A%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Kuntz S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kuntz%20S%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Guo L](https://www.ncbi.nlm.nih.gov/pubmed/?term=Guo%20L%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Mori H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mori%20H%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Harari E](https://www.ncbi.nlm.nih.gov/pubmed/?term=Harari%20E%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Paek KH](https://www.ncbi.nlm.nih.gov/pubmed/?term=Paek%20KH%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Fernandez R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fernandez%20R%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Chahal D](https://www.ncbi.nlm.nih.gov/pubmed/?term=Chahal%20D%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Romero ME](https://www.ncbi.nlm.nih.gov/pubmed/?term=Romero%20ME%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Kolodgie FD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Kolodgie%20FD%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [**Gupta A**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Gupta%20A%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Virmani R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Virmani%20R%5BAuthor%5D&cauthor=true&cauthor_uid=31346257), [Finn AV](https://www.ncbi.nlm.nih.gov/pubmed/?term=Finn%20AV%5BAuthor%5D&cauthor=true&cauthor_uid=31346257). Drug-eluting coronary stents: insights from preclinical and pathology studies. [Nat Rev Cardiol.](https://www.ncbi.nlm.nih.gov/pubmed/31346257) 2019 Jul 25. doi: 10.1038/s41569-019-0234-x
33. Aghdassi A, **Gupta A**. Endomyocardial Biopsy : Examining Indications and Trends in Use—More Native Heart Biopsies to Come? Cardiology 142 (2), 102-104, 2019
34. Mondal S, Dawood M, Bandyopadhyay D, Taylor B, Tanaka K, **Gupta A**. Transcatheter aortic valve replacement: A potential option for aortic insufficiency management in patients with left ventricular assist device. IJC Heart & Vasculature, Volume 26, 2020, 100425.
35. Restrepo AJ,  Chahal D,  **Gupta A**. Roadmap to Success : 3D Printing in Pre-Procedural Planning. J Am Coll Cardiol Case Rep. 2020 Mar, 2 (3) 358-360.
36. Ahmed T, Shkullaku M, Chahal D, Dawood M, **Gupta A**. Triple Valve Replacement in a Patient with Severe Combined Aortic and Mitral Stenosis. Cureus 12 (3), 2020
37. Ahmed T, Chahal D, Shkullaku M, **Gupta A**. Extensive coil embolization of a giant coronary artery aneurysm in an octogenarian: a case report. European Heart Journal Case Reports. 03 May 2020
38. Ghasemi Z, Jeon W, Kim CS, **Gupta A**, Rajamani R, Hahn JO. Observer-Based Deconvolution of Deterministic Input in Coprime Multichannel Systems With Its Application to Noninvasive Central Blood Pressure Monitoring. Journal of Dynamic Systems, Measurement and Control. Sept 2020, Vol 142 ; 091006-1
39. Ahmed T, Chahal D, Madathil R, Kaczorowski D, Gupta A. Percutaneous Coronary Intervention (PCI) Strategies under Hemodynamic Support for Cardiogenic Shock: A Single-Center Experience with Two Patients. Case Reports in Cardiology. Volume 2020. Article ID 6260239
40. Ghoreishi M, Shah A, Jeudy J, Pasrija C, Lebowitz J, Kaczorowski D, Gupta A, Toursavadkohi S, Taylor B. Endovascular Repair of Ascending Aortic Disease in High-Risk Patients Yields Favorable Outcome. Annals of Thoracic Surgery. Volume 109, Issue 3, March 2020 ; 678-685

**Non Peer Reviewed Journal Articles**

1. Borer J, Supino P, Truter S, Herrold E, Hochreiter C, **Gupta A**, Yin A, Lee E, Pitlor L, Krieger K, Isom O. Aortic regurgitation: contractility as primary prognosticator and basis of the contractile deficit. Proceedings of 3rd International Congress on Heart Disease – New Trends in Research, Diagnosis and Treatment (Kimchi A, ed), Monduzzi Editore (Bologna), 2003, pp. 449-453.
2. Supino, PG, Schuleri K, **Gupta A,** Borer JS. Management of valvular heart disease in the elderly. Cardiology Review 2003;20:24-31.
3. **Gupta A**, Bersin R.  Percutaneous Treatment of Abdominal Aortic Aneurysms.  Science Innovation Synergy Yearbook 2007, Chapter 10.
4. **Gupta A**, Moussa I.  Clinical Outcomes following Use of Sirolimus Eluting Stents: An Update.  In: Interventional Cardiology.  London, England: Touch Cardiology, October 2007: 31-34.

**Abstracts/ Posters**

1. Koka A, Guaghan J, **Gupta A**. Testing and Improving Electrocardiogram Competency in Internal Medicine Residents. Association of Program Directors of Internal Medicine), poster, Philadelphia, PA 2005
2. Truter SL, **Gupta A**, Lee EH, Huang Z, Pitlor L, Borer J. The Stress- activated Protein Kinase Pathways, C- jun N- terminal Kinase and P38- mitogen Activated Protein Kinase Regulate Fibronectin Expression in Aortic Regurgitation. JACC 2005 Feb 1; 45 (3): Supplement A; 353A
3. Supino PG, Borer J, Schuleri K, Hochreiter C, **Gupta A**, Kligfield P, Herrold EM, Bomsztyk M. Exercise Tolerance But Not ST Segment Response to Exercise Predicts Event- Free Survival in Asymptomatic Chronic Nonischemic Mitral Regurgitation. JACC 2005 Feb 1; 45 (3): Supplement A; 364A
4. Moon E, **Gupta A**, Shishodia H, Taqui B. “Hypertrophic Cardiomyopathy Presenting with HOCM Physiology” Poster presentation, Regional SGIM, New York 2005
5. Chahal DS, Ginsberg E, Kligerman SJ, Jeudy J, Seliger S, Meeks A, Lee T, **Gupta A**. TCT-661 Low Contrast Dose CTA For TAVR Evaluation Using Central Pulmonary Artery Catheter. *J Am Coll Cardiol.*2015;66(15\_S):. doi:10.1016/j.jacc.2015.08.680.
6. Ghasemi Z, Kim CS, Ginsberg E, Duell J, **Gupta A**, Hahn JH. Estimation of Central Aortic Blood Pressure From Non-Invasive Cuff Pressure Oscillation Signals Via System Identification. Dynamic Systems and Controls Conference, Proceedings of the ASME. October 12-14, 2016

**Book Editor**

1. Watkins AC, Gupta A, Griffith B. *Transcatheter Aortic Valve Replacement: A How to Guide for Cardiologists and Cardiac Surgeons.* Springer 2018.

**Major Invited Speeches**

1. **Gupta, A.,** An Introduction to Congestive Heart Failure, Temple University School of Medicine, 2004

2. **Gupta, A.,** Noninvasive Diagnostic Cardiac Testing, Temple University Medical Residents, 2004; 2005

3. **Gupta, A.,** Infectious Endocarditis, Temple Cardiology, 2005

4. **Gupta, A.,** Carotid Artery Stenting - History and Logic, Temple Cardiology, 2005

5. **Gupta, A.,** Risk Reduction in Major Vascular Surgery, Temple Cardiology, 2005

6. **Gupta, A.,** Coronary Arterial Revascularization - Past, Present, Future, Temple Cardiology Grand Rounds, 2005

7. **Gupta, A.,** Acquired Long QT Syndrome, Temple EP Conference, 2005

8. **Gupta, A.,** Cardiology Grand Rounds, Temple University Hospital, 2005

9. **Gupta, A.,** Clinical Pathological Conference, Temple University Hospital Department of Medicine, Discussant, 2006

10. **Gupta, A.,** Medicine Grand Rounds, Prince Georges County Hospital, Maryland, September, 2008-2013

11. **Gupta, A.,** University of Maryland Vascular Surgery Conference Preoperative Risk Assessment Prior to Major Vascular Surgery, 2011; 2012

12. **Gupta, A.,** Medicine Grand Rounds, University of Maryland Medicine Grand Rounds, Catheter Based Treatment for Resistant Hypertension and Severe Aortic Stenosis, 2012

13. **Gupta, A.,** Medicine Grand Rounds, St. Agnes Hospital, Maryland, 2012

14. **Gupta, A**., Renal Grand Rounds, Johns Hopkins Hospital, Maryland: Catheter Based Treatment for Resistant Hypertension, 2013

15. **Gupta, A.,** STEMI INDIA, 2014: PCSK-9 Inhibitors in STEMI, 2014

16. **Gupta, A.,** STEMI INDIA, 2014: Diabetic Patients with STEMI - Do We Need a Different Strategy, 2014

17. **Gupta, A.,** Department of Anesthesia Grand Rounds, UMMC, Preoperative Risk Assessment Prior to Major Vascular Surgery, 2014

18. **Gupta, A.,** Acute Coronary Syndromes, Temple University Family Practice Board Review Course, 2014

19. **Gupta, A.,** Medicine Grand Rounds, University of Maryland St. Joseph’s Medical Center, 2015

20. **Gupta, A.,** Reconciling Patients with FFR Negative - Stress Test Positive Coronary Disease, American Society of Nuclear Cardiology Annual Meeting, Washington, D.C., 2015

21. **Gupta, A**., Acute Coronary Syndrome in Chronic Kidney Disease, Advances in Kidney Disease, Miami, Florida, 2016

22. **Gupta, A**. Implications of Public Reporting. Complex Cardiovascular Catheter Therapeutics. Orlando, Florida 2016

23. **Gupta, A**. Contrast Reduction in TAVR. Transcatheter Cardiovascular Therapeutics (TCT). Washington DC 2016

24. **Gupta, A.**  Interventional Therapies in Heart Failure. Society for Coronary Magnetic Resonance (SCMR). Washington, DC 2/2/2017

25. **Gupta, A**. Who Should Get a Renal Stent in 2017? American College of Cardiology Scientific Sessions. Washington DC 2017

26. **Gupta, A**. Implications of Public Reporting. Temple University Cardiology Grand Rounds 4/7/2017

27. **Gupta, A.** Renal Artery Stenting; Updates on Structural Interventions, Contrast Induced Nephropathy: Cardiovascular Society of India- National Interventional Council, New Delhi, India 4/14/2017

28. **Gupta, A**. Implications of Public Reporting. University of Maryland Medicine Grand Rounds 4/19/2017