



School of Medicine

Department of Emergency Medicine

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10/30/2018

Wayne State School of Medicine Alumni Association:

I am honored to nominate for the Distinguished Alumni Award, Dr. Anu Shivaraju, Wayne State University School of Medicine Class of 2005. As a WSU SOM classmate and friend of Dr. Shivaraju, I have watched her career and endeavors grow over the past two decades and I have been in awe of Anu, not only for her sheer brilliance and dedication, but also for her humility, grace, and unwavering sense of justice. I cannot think of anyone who embodies the spirit of WSU SOM's commitment to "serve our community, state, nation, and the world as innovators in medicine, health, prevention and wellness" better than she.

I first knew Dr. Shivaraju in medical school. She was a good friend of my anatomy lab partner and I was quickly welcomed by her warm friendliness. She had a way of getting people together and getting them to laugh. When asked, she would attribute this innate kind-heartedness and sense of community to her upbringing in India. This was a someone foreign characteristic in the competitive and intense culture of medical school, but it was welcomed and desperately needed. When Anu was awarded the WSU SOM Distinguished Service Award at our match ceremony fourth year, she received a standing ovation from our class of nearly three-hundred. We recognized that she was a unique soul, and we were better for having grown beside her.

Anu was more than just 'nice'; she sought to make the world a better place through her actions big and small. In her second year of medical school, she led a small group of students to form the WSU SOM World Health Student Organization (WHSO). The initial mission was for WSU SOM students to reach the global community through service and education. The students commenced on global missions and established the organization which grew and sustained as the thriving WHSO as known today. Thousands of WSU SOM students and countless global citizens have been impacted by the grassroots legacy and dedication of Dr. Shivaraju.

After residency, I joined Anu at the University of Illinois Hospital in Chicago (UIC) where we both completed fellowships. I was new to the hospital system and Dr. Shivaraju took me under her wing to 'teach me the ropes' not only at the hospital, but also in a new city. She included me immediately in her network of friends and colleagues at the hospital, which greatly smoothed my transition to a new facility and role as an attending. More importantly, it was in this professional friendship that I was able to get to know Anu as the tremendous clinician and dedicated educator that she is.

Dr. Shivaraju has been highly successful in her career since graduating from WSU SOM. She thrived in her Internal Medicine residency and Cardiology fellowship at UIC where she was also selected as Chief Cardiology Fellow. Following this, she was accepted into the highly competitive Interventional Cardiology Fellowship at UIC. Despite this extraordinary training, Anu felt compelled to further advance her skills in order to become one of the few American physicians trained in minimally invasive advanced cardiac procedures. She did this by completing the Advanced Training in Structural Heart Interventions at the German Heart Center in Munich, Germany. Through her unending dedication to innovation in care, Dr. Shivaraju has become one of the nation's leading Interventional Cardiologists.

Despite this arduous career path, Dr. Shivaraju has never wavered in her commitment to service and global health. In June 2017, along with Drs. Zaher Sahloul and John Kahler, Dr. Shivaraju officially founded MedGlobal (www.medglobal.org), a nonprofit medical organization established to work with local nongovernmental organizations (NGOs) to provide innovative, sustainable, and dignified healthcare to refugees and underserved communities around the world. Per their website,

'MedGlobal works in difficult-to-reach areas, devastated by war, natural disasters, famine and ethnic cleansing. Where individuals have poor access to healthcare and many NGOs choose not to venture. To date we have sent missions to Bangladesh, Yemen, Syria and Puerto Rico, with plans to expand to Lebanon, Jordan, Greece, Sierra Leone, Haiti, and more.

In all of our work, we embrace humanitarian principles and ethical standards. We believe in promoting international, intercultural, and interfaith action for the common good. We counter injustice, hate, violence, and extremism through peace-building and advocacy.'

These words and this phenomenal organization embody Dr. Shivaraju's sense of responsibility and duty to 'give back' to the global community. For this work, she was awarded the Distinguished Service award by the Syrian American Medical Society in 2016.

Dr. Anu Shivaraju deserves the Distinguished Alumni Award at the Wayne State University School of Medicine. She has made outstanding contributions to humanitarian causes in both her work developing the WHSO and forming MedGlobal. Also, her contributions to the greater health field through her Advanced Training in Structural Heart Interventions makes her outstanding in clinical practice and innovation. Despite this, when I approached her concerning this nomination her response was that she was 'shy of receiving accolades for her voluntary work as I feel it is my responsibility and duty to serve'. I can think of no one who better embodies the spirit of what it means to be a WSU SOM Warrior.

Sincerely,

Kristiana Kaufmann MD, MPH
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CURRICULUM VITAE

Anupama Shivaraju, M.D.

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Citizenship: United States of America



Education

- 8/2001 – 5/2005 Doctor of Medicine (M.D.), Wayne State University School of Medicine, Detroit, Michigan
- 1/1999 – 5/2000 Masters of Science in Basic Medical Science (M.S.), Wayne State University School of Medicine, Detroit, Michigan
- 8/1994 – 5/1998 Bachelor of Science in Biology and Psychology (B.S.), University of Michigan, Ann Arbor, Michigan

Postgraduate Training

- 1/2014 – 7/2014 **Advanced Training in Structural Heart Interventions**, The German Heart Center, Munich, Germany
- Training in Transcatheter Aortic Valve Implantation (TAVI), Transcatheter Mitral Valve Implantation (TMVI), Transcatheter Mitral Valve Repair with the MitraClip device and Cardioband, Transcatheter Left Atrial Appendage (LAA) Occlusion, and Percutaneous Transcatheter Mitral Valve Commissurotomy.
- 7/2012 – 6/2013 **Interventional Cardiology Fellowship**, University of Illinois Hospital and Health Sciences System, Chicago, Illinois and Advocate Christ Medical Center, Oak Lawn, Illinois
- Training in Coronary, Peripheral, and Structural interventions, including coronary interventions with Impella ventricular assist device support, carotid stenting, lower extremity revascularization, PFO & ASD closure, mitral commissurotomy, and aortic valvuloplasty.
- 1/2011 – 1/2012 **Chief Cardiology Fellow**, Cardiovascular Disease Fellowship Training Program, University of Illinois Hospital and Health Sciences System, Chicago, Illinois and Advocate Christ Medical Center, Oak Lawn, Illinois

- 7/2009 – 6/2012 **Cardiovascular Disease Fellowship**, University of Illinois Hospital and Health Sciences System, Chicago, Illinois and Advocate Christ Medical Center, Oak Lawn, Illinois
- 7/2005 – 6/2008 **Internal Medicine Residency**, University of Illinois Hospital and Health Sciences System, Chicago, Illinois

Previous Academic and Professional Appointments

- 08/2014 – Current Interventional / Structural Heart Cardiology Faculty with the Advocate Medical Group at Advocate Christ Medical Center, Oak Lawn, Illinois.
- 10/2013 – 12/2013 Cardiology Faculty, Kansas City Veterans Affairs Medical Center, Kansas City, Missouri.
- 7/2013 – 8/2013 Interventional Cardiology Faculty with The Cardiology Group, Advocate Christ Medical Center, Oak Lawn, Illinois.
- 7/2008 – 6/2009 Internal Medicine Faculty, Jesse Brown Veterans Affairs Medical Center, Chicago, Illinois.
- 7/2008 – 6/2009 Emergency Medicine Faculty, Hines Veterans Affairs Medical Center, Chicago, Illinois.

Other Professional Experience

- 7/2018 Faculty at Cardiovascular Innovations Conference, Denver Colorado, U.S.A
- 10/2017 Faculty at TCT Conference, Denver Colorado, U.S.A
- 12/2015 Faculty at PCI Congress, Munich, Germany

Certification

- Certification in Internal Medicine, American Board of Internal Medicine (2008)
- Certification in Nuclear Cardiology, American Society of Nuclear Cardiology (2012)
- Certification in General Cardiovascular Disease, American Board of Internal Medicine (2013)
- Certification in Interventional Cardiology, American Board of Internal Medicine (2014)

Licensure

Illinois – Permanent Medical License, 036120998, Expiration date 07/31/2020

Languages

English, Kannada, Hindi, German

Honors and Awards

Physician Recognition for my Humanitarian Work with Syrian Refugees, Advocate Christ Medical Center, Oak Lawn, Illinois (September 2017)

Distinguished Service Award. "In recognition of your exceptional service and volunteerism to save Syrian lives." Syrian American Medical Society (SAMS) Midwest (April 2016)

MVP Partnership Award, Advocate Christ Medical Center, Oak Lawn, Illinois (January 2016)

Resident of the Year, Internal Medicine Residency, University of Illinois Hospital and Health Sciences System, Chicago, Illinois (2007)

Penfil Award for Developing an Understanding of the Art of Medicine, Wayne State University School of Medicine, Detroit, Michigan (2005)

Distinguished Service Award, Wayne State University School of Medicine, Detroit, Michigan (2005)

Aesculapian Honor Society, Wayne State University School of Medicine, Detroit, Michigan (2003, 2004, 2005)

Bibliography

Publications

1. **Shivaraju, A.**, Michel, J., Frangieh, AH., Ott, I., Thilo, C., Schunkert, H., Kastrati, A., Leon, MB., Dvir, D., Kodali, S., Bapat, V., Guerrero, M., and Kasel, AM. Transcatheter Aortic and Mitral Valve-In-Valve (VIV) Implantation Using the Edwards Sapien 3 Heart Valve. *Journal of the American Heart Association* 7:7(14): July 2018.
2. **Shivaraju, A.**, Thilo, C., Sawlani, N., Ott, I., Burgdorf, C., Von Scheidt, W., Ellert, J., Husser, O., Hengstenberg, C., Kastrati, A., and Kasel, A.M. Aortic Valve Pre-Dilatation With a Small Balloon Without Rapid Pacing Prior to Transfemoral Transcatheter Aortic Valve Replacement. *BioMed Research International*. April 30, 2018.
3. Ott, I., **Shivaraju, A.**, Schäffer, NR., Frangieh, AH., Michel, J., Husser, O., Hengstenberg, C., Mayr, P., Colleran, R., Pellegrini, C., Cassese, S., Fusaro, M., Schunkert, H., Kastrati, A., and Kasel, A.M. Parallel Suture Technique with ProGlide: A Novel Method for Management of Vascular Access during Transcatheter Aortic Valve Implantation(TAVI). *EuroIntervention* 13(8):928-934. October 20, 2017.
4. Frangieh, A.H., Ott, I., Michel, J., **Shivaraju, A.**, Joner, M., Mayr, P., Hengstenberg, C., Husser, O., Pellegrini, C., Schunkert, H., Kastrati, A., and Kasel, A.M. Standardized Minimalistic Transfemoral Transcatheter Aortic Valve Replacement (TAVR) Using the SAPIEN 3 Device: Stepwise Description, Feasibility, and Safety from a Large Consecutive Single-Center Single-Operator Cohort. *Structural Heart* 1:3-4, 169-178. August 1, 2017.

5. **Shivaraju, A.,** Kodali, S., Thilo, C., Ott, I., Schunkert, H., Von Scheidt, W., Leon, M.B., Kastrati, A., and Kasel, A.M. Overexpansion of the Sapien 3 Transcatheter Heart Valve: A Feasibility Study. *JACC Cardiovascular Intervention* 28;8(15):2041-3. December 2015.
6. **Shivaraju, A.,** Thilo, C., Ott, I., Mayr, P.N., Schunkert, H., Von Scheidt, W., Thoenes, M., Byrne, R., Kastrati, A., and Kasel, A.M. Fluoroscopic Balloon Sizing of the Aortic Annulus before Transcatheter Aortic Valve Replacement (TAVR) – Follow the Right Cusp Rule. *EuroIntervention* 11(7):840-2. November 2015.
7. **Shivaraju, A.,** Ott, I., Burgdorf, C., Thilo, C., Hengstenberg, C., Kastrati, A., and Kasel, A.M. Fluoroscopic Calcification Guided Optimal Deployment Projection (ODP) during Transcatheter Aortic Valve Replacement (TAVR) – “The Eye of the Pigtail” (Follow the Right Cusp Rule – Part II). *Catheter Cardiovascular Intervention* 87(5):996-8. April 2016.
8. Kasel, A.M., **Shivaraju, A.,** Colombo, A., and Kastrati, A., Fluoroscopy Guided Transfemoral Transcatheter Aortic Valve Replacement (TAVR). *JACC Cardiovascular Imaging* 8(3):361-70. March 2015.
9. Kasel, A.M., **Shivaraju, A.,** Von-Scheidt, W., Kastrati, A., and Thilo, C. Anatomical Guided Crossing of a Stenotic Aortic Valve under Fluoroscopy – “Right Cusp Rule – Part III.” *JACC Cardiovascular Intervention* 8(1 Pt A):119-20. January 2015.
10. **Shivaraju, A.,** Ott, I., Kastrati, A., and Kasel, A.M. Valve-in-valve transfemoral TAVR: Sapien 3 valve within a failed core valve bioprosthesis. *European Heart Journal* 35(38):2684. October 7, 2014.
11. Thilo, C., **Shivaraju, A.,** Von-Scheidt, W., and Kasel, A.M. Bicuspid aortic valve stenosis with successful transfemoral transcatheter aortic valve replacement (TAVI) using the Sapien 3 valve. *European Heart Journal* 35(38):2662. October 7, 2014.
12. Kasel, A.M., **Shivaraju, A.,** Schneider, S., Krapf, S., Oertel, F., Burgdorf, C., Ott, I., Samer, C., Kastrati, A., Von-Scheidt, W., and Thilo, C. Standardized Methodology for Transfemoral Transcatheter Aortic Valve Replacement with the Edwards Sapien-XT Valve under Fluoroscopy Guidance. *Journal of Invasive Cardiology* 26(9):451-461, September 2014.
13. Patel, H., **Shivaraju, A.,** Fonarow, G.C., Xie, H., Gao, W., Shroff, A.R., Vidovich, M.I. Temporal Trends in the Use of Intraaortic Balloon Pump Associated with Percutaneous Coronary Intervention in the United States, 1998-2008. *American Heart Journal* 168(3):363-373, September 2014.
14. **Shivaraju, A.,** Yu, C., Kattan, M. W., Xie, H., Shroff, A.R., and Vidovich, M.I. Temporal Trends in Percutaneous Coronary Intervention Associated Acute Cerebrovascular Accident (from the 1998 to 2008 Nationwide Inpatient Sample Database). *American Journal of Cardiology* 114(2):206-213, July 2014.
15. **Shivaraju, A.,** Patel, V.K., Fonarow, G.C., Xie, H., Shroff, A.R., and Vidovich, M.I. Temporal Trends in Gastrointestinal Bleeding Associated with Percutaneous Coronary Intervention: Analysis of the 1998-2006 Nationwide Inpatient Sample (NIS) Database. *American Heart Journal* 162(6):1062-1068, December 2011.
16. **Shivaraju, A.,** Shroff, A.R. Radial Artery Spasm: Pick The Right Cocktail and Relax. *Journal of Invasive Cardiology* 23(10):405-6. October 2011

17. Kao, J., **Shivaraju, A.** Preventing Left Atrial Appendage Emboli. Diagnostic and Interventional Cardiology, September 2010.
18. **Shivaraju, A.**, Luu, J.T., Bratis, C., Akhter, N., and Stamos, T. CA-MRSA Pericarditis: A Case Report and Review of Literature. Cardiology Review, January 2008.

Abstracts/Presentations

1. Pal, V., **Shivaraju, A.**, Xie, H., Thilagovindarajan, K., Shroff, A.R., and Vidovich, M.I. TCT-562 Temporal Trends in Cost and Resource Utilization Following PCI-Associated Gastrointestinal Bleeding. Journal of American College of Cardiology. 2012;60(17_S): October 2012.
2. Arora, V., **Shivaraju, A.**, Sweis, R., Vidovich, M.I., and Shroff, A.R. Evaluation of Acute Radial Artery Injury Following Transradial Percutaneous Coronary Intervention by Optical Coherence Tomography. Cardiovascular Research Technologies (CRT) Conference, Washington, DC, February 2012.
3. Dandekar, V., **Shivaraju, A.**, Vidovich, M., Shroff, A., and Kao, J. Prune the Braches. Cardiovascular Research Technologies (CRT) Conference, Washington, DC, February 2011.
4. Patel, V.K., **Shivaraju, A.**, Vidovich, M. Trends in Gastrointestinal Bleeding with Percutaneous Coronary Intervention in the US: Findings from the Nationwide Inpatient Sample. Transcatheter Cardiovascular Therapeutics Conference, Washington, DC, September 2010.
5. **Shivaraju, A.**, Cardozo, S., Marogil, J., and Shroff, A. How well is Blood Pressure Controlled in Our Veteran Patients Post-Percutaneous Coronary Intervention? The American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference, Baltimore, MD, April 2008.
6. **Shivaraju, A.**, Cardozo, S., Marogil, J., and Shroff, A. Adverse Effects of Diabetes in Patients Post-Percutaneous Coronary Intervention. The American Heart Association Arteriosclerosis, Thrombosis and Vascular Biology Annual Conference, Atlanta, GA, April 2008.
7. Khan, F., Shah, R., Sancaktar, O., Ferrera, D., Cardozo, S., **Shivaraju, A.**, Marogil, J., and Shroff, A. Assessing Statin Therapy and Lipid Profile Goals One Year after Percutaneous Coronary Intervention at a Veterans Hospital. The American Heart Association Joint Conference – 48th Cardiovascular Diseases Epidemiology and Prevention Annual Conference, and Nutrition, Physical Activity and Metabolism Conference. Colorado Springs, CO, March 2008.
8. **Shivaraju, A.**, Luu, J.T., and Bratis, C. Community Acquired MRSA Pericarditis. The American College of Physicians (ACP) Regional Meeting for Internal Medicine, Chicago, IL, October 2007.
9. Mohamedali, B., Farroqui, M., **Shivaraju, A.**, TenCate, V., and Quigley, J. Systemic Capillary Leak Syndrome (SCLS): The Trials and Tribulations of Proper Management. The American College of Physicians (ACP) Regional Meeting for Internal Medicine, Chicago, IL, October 2007.
10. **Shivaraju, A.**, Cardozo, S., Marogil, J., and Shroff, A. Adherence to the US Joint National Committee (JNC) guidelines for Blood Pressure control in a Veterans Health Institution Six Months

Post Coronary Intervention. The American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference, Washington, DC, May 2007.

11. Cardozo, S., Shivaraju, A., Marogil, J., Sitafalwalla, S., and Shroff, A. Assessing Racial Differences in Low Density Lipoprotein Levels in Coronary Stent Patients at a Veterans Administration Hospital. The American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference, Washington, DC, May 2007.
12. Marogil, J., Shivaraju, A., Cardozo, S., and Shroff, A. Impact of Race and age on 6 Month Outcomes among Veterans Undergoing Percutaneous Coronary Interventions. The American Heart Association Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke Conference May 2007.

Community Involvement

- 6/2017 – Current Co-founder and Vice-Chair of MedGlobal (www.medglobal.org): A nonprofit, international medical organization that partners with local communities to provide innovative, sustainable and dignified healthcare in areas around the world impacted by natural disaster, displacement due to conflict, disease outbreak, poverty, or insufficient healthcare.
- 8/2018 – Current Board of Director for Sustainable Cardiovascular Health Equity Development Alliance (SCHEIDA, www.scheda.ngo): A nonprofit organization dedicated to developing interventional cardiology capacity in low- and middle-income communities through philanthropy, training and education. This organization was founded with the mission to help reduce the morbidity and mortality from cardiovascular disease in low- and middle-income population around this world.