

Curriculum Vitae

Name: Sharven Taghavi M.D., M.P.H., M.S.
Date of Birth: July 30, 1980
Home Address: 4243 Laclede Ave
St. Louis, MO 63108
Mobile Telephone: 804-245-1122
Email: staghavi@partners.org
SharvenTaghavi@hotmail.com
Citizenship: United States of America

Post-Graduate Medical Education

8/2017-7/2018 **Fellow, Surgical Critical Care**
Brigham and Women's Hospital/Harvard University, Boston, Massachusetts
Chief: Ali Salim, M.D.
Program Director: Reza Askari, M.D.

7/2015-11/2016 **Fellow, Cardiothoracic Surgery**
Barnes-Jewish Hospital/Washington University in St. Louis, St. Louis, Missouri
Chief: Ralph Damiano, M.D.
Program Director: Marc Moon, M.D.

6/2014-6/2015 **Chief Resident, General Surgery**
Temple University Hospital, Philadelphia, Pennsylvania
Chairman: Dr. Amy Goldberg, M.D.
Program Director: Dr. Amy Goldberg, M.D.

6/2012-6/2014 **Senior Resident, General Surgery**
Temple University Hospital, Philadelphia, Pennsylvania
Chairman: Dr. Selwyn Rogers, M.D.
Program Director: Dr. Amy Goldberg, M.D.

6/2010-6/2012 **Post-Doctoral Research Fellow**
Temple University Cardiovascular Research Center
Philadelphia, Pennsylvania
Principal Investigator: Dr. Steven Houser, Ph.D.

6/2008-6/2010 **Intern and Junior Resident, General Surgery**
Temple University Hospital, Philadelphia, Pennsylvania
Chairman: Dr. Daniel Dempsey, M.D.
Program Director: Dr. Amy Goldberg, M.D.

Education

2004-2008 **Tufts University School of Medicine**, Boston, Massachusetts
Medical Doctorate

2004-2008 **Tufts University School of Public Health**, Boston, Massachusetts
Masters of Public Health

2002-2003 **Georgetown University**, Washington, D.C.
M.S. in Physiology and Biophysics, *with distinction*

1999-2002 **University of Virginia**, Charlottesville, Virginia
B.S. in Chemistry with specialization in Biochemistry
Minor in Middle Eastern Studies

Work Experience

3/2017-7/2017 **Trauma Surgeon**
St. Francis Medical Center, Cape Girardeau, Missouri
Worked as a locums tenens surgeon taking trauma call. Cared for trauma surgery patients both in the trauma bay and on the surgical ward and ICU.

1/2017-3/2017 **General Surgeon**
Cox Medical Center Branson, Branson, Missouri
Worked as a locums tenens general surgeon. Cared for general surgery patients in the outpatient and emergency setting.

12/2016-12/2016 **Trauma Surgeon**
Research Medical Center, HCA Midwest, Kansas City, Missouri
Worked as a locums tenens surgeon taking trauma call. Cared for trauma surgery patients both in the trauma bay and on the surgical ward and ICU.

Research Grants and Funding

7/11-7/13 **Principal Investigator**
National Heart, Lung, and Blood Institute (NHLBI), National Institute of Health (NIH)
1F32 HL110687-01
Improving Cardiac Regeneration Using Stem Cells with Enhanced Calcium Influx
The major goal of this project was to increase the regenerative capability of bone marrow and cardiac derived CD117+ stem cells by enhancing calcium influx through genetic modifications that increase calcium influx.
Amount: \$106,084

1/10-1/11 **Principal Investigator**
Temple University SEED Grant for Research
167141-04730-02
Still Making the Case for "Scoop and Run": A Rat Hemorrhagic Shock Model
The goal of this project was to create an animal model that simulates penetrating trauma and to determine if endotracheal intubation provides a survival benefit in this model of hemorrhagic shock.
Amount: \$5,000

2/08-4/08 **Principal Investigator**
Tufts University Alumni Association Public Health Grant
Road Traffic Accidents Along the Maua-Meru Highway in Meru, Kenya
Studied the frequency of road traffic accidents along the Maua-Meru in highway at Kenya Methodist University in Meru, Kenya and identified independent risk factors for road traffic accidents.
Amount: \$1,000

Research Experiences

7/10-7/12 **Post-Doctoral Research Fellow**
Cardiovascular Research Center, Temple University School of Medicine, Philadelphia, PA

Principal Investigator: Dr. Steven Houser, Ph.D.

Investigated the use of bone marrow and cardiac derived stem cells as a potential treatment of heart disease in a murine myocardial infarction model, a porcine ischemia-reperfusion model, and a feline isoproterenol-induced cardiomyopathy model.

1/08-4/08

Public Health Applied Learning Experience

Kenya Methodist University, Meru, Kenya

Preceptor: Dr. John Muchiri Ph.D.

Studied the frequency of road traffic accidents along the Maua-Meru in highway at Kenya Methodist University in Meru, Kenya and identified independent risk factors for road traffic accidents.

5/05-8/05

Public Health Applied Learning Experience

Iranian Hemophilia Treatment Center, Tehran, Iran

Preceptor: Dr. Freydoon Alla, M.D.

Investigated the prevalence of depression in Iranian Hemophiliacs attending the Hepatitis clinic.

6/03-8/04

Research Assistant

Medical College of Virginia, Department of Rheumatology, Allergy, and Immunology,
Richmond, Virginia

Principal Investigator: Christopher Kepley, Ph.D.

Studied the role of mast cell receptors and cell signaling pathways in allergic disease. Isolated and maintained stem cell tissue cultures for differentiation into mast cells.

Abstracts and Presentations

- 1) **Taghavi S.**, Angeles M., Uribe Leitz P., Nehra D., Cooper Z., Havens J., Haider A., Salim A., Askari R. Emergency General Surgery Procedures in the Bone Marrow Transplant Population. Oral Presentation. *American College of Surgeons Annual Clinical Congress*. October 2018.
- 2) **Taghavi S.**, Tandon D., Diamant A., Keith A., Ewald G, Lawrence S., Masood M., Balsara K., Itoh A. Surgical Management of Left Ventricular Assist Device Driveline Infection. Oral Presentation. *International Society of Heart and Lung Transplantation*. April 2016.
- 3) Ambur V., **Taghavi S.**, Jayarajan S., Kadakia S., Shiose A., Wheatley G., Guy T., Toyoda Y. Regional Variation in Lung Transplantation in the Era of Lung Allocation Score. Poster Presentation. *International Society of Heart and Lung Transplantation*. April 2016.
- 4) Ambur V., **Taghavi S.**, Furuya Y., Jayarajan S., Shiose A., Leotta E., Gomez-Abraham J., Toyoda Y. Outcomes After Induction Therapy in Heart Transplant Patients. Oral Presentation. *American Heart Association Annual Scientific Sessions*. November 2015.
- 5) Ambur V., **Taghavi S.**, Jayarajan S., Kadakia S., Zhao H., Shiose A., Wheatley G., Guy T., Toyoda Y. Double Lung Transplantation Can Be Safely Performed Using Diabetic Donors. *American College of Surgeons Annual Clinical Congress*. October 2015.
- 6) Ambur V., **Taghavi S.**, Kadakia S., Jayarajan S., Gaughan J., Sjöholm L., Pathak A., Santora T., Rappold J., Goldberg A. Does Socioeconomic Status Predict Outcomes After Cholecystectomy. Oral Presentation. *American College of Surgeons Annual Clinical Congress*. October 2015.
- 7) **Taghavi S.**, Jayarajan S., Mangi A., Chan E., Dauer E., Sjöholm L., Pathak A., Santora T., Goldberg A., Rappold J. Non-Cardiac Surgical Procedures After Left Ventricular Assist Device Implantation. Poster Presentation. *American Transplant Congress*. May 2015.
- 8) Ambur V., Jayarajan S., **Taghavi S.**, Kadakia S., Lewis C., Furuya Y., Shiose A., Wheatley G., Kaiser L., Guy T., Toyoda Y. Long Term Survival After Single versus Double Lung Transplantation in Patients with Pulmonary Fibrosis in the Modern Era of the Lung Allocation Score. Poster Presentation. *American Transplant Congress*. May 2015.

- 9) Lewis C., Jayarajan S., **Taghavi S.**, Kadakia S., Ambur V., Shiose A., Wheatley G., Kaiser L., Guy T., Toyoda Y. Preservation Fluid Affects Short- and Long-term Survival in Orthotopic Heart Transplants. Oral Presentation. *American Transplant Congress*. May 2015.
- 10) Furuya Y., Jayarajan S., **Taghavi S.**, Ambur V., Cordova F., Patel N., Toyoda Y. The Impact of Alemtuzumab and Basiliximab Induction on Patient and Graft Survival in Single Lung Transplant Recipients. Poster Presentation. *American Transplant Congress*. May 2015.
- 11) Kadakia S., Jayarajan S., **Taghavi S.**, Ambur V., Lewis C., Shiose A., Wheatley G., Kaiser L., Guy T., Toyoda Y. Examining Long-Term Survivors in Combined Heart-Lung Transplantation. Oral Presentation. *American Transplant Congress*. May 2015.
- 12) Ambur V., **Taghavi S.**, Jayarajan S., Kadakia S., Zhao H., Shiose A., Wheatley G., Guy T., Toyoda Y. In the Modern Era, Single Lung Transplantation from Diabetic Donors is Associated with Increased Mortality. Poster Presentation. *American Association of Thoracic Surgeons Annual Meeting*. April 2015.
- 13) **Taghavi S.**, Jayarajan S.N., Ambur V., Gaughan J.P., Dauer E., Sjöholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Post-Operative Outcomes with Cholecystectomy in Lung Transplant Recipients. Oral Presentation. *Annual Academic Surgical Congress*. February 2015.
- 14) **Taghavi S.**, Ambur V., Jayarajan S.N., Gaughan J.P., Dauer E., Sjöholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Comparing Open Gastrostomy Tube to PEG Tube in Lung Transplant Patients. Oral Presentation. *Annual Academic Surgical Congress*. February 2015.
- 15) Ambur V., **Taghavi S.**, Jayarajan S.N., Gaughan J.P., Dauer E., Sjöholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Comparing Open Gastrostomy Tube to Percutaneous Endoscopic Gastrostomy Tube in Heart Transplant Patients. Oral Presentation. *Annual Academic Surgical Congress*. February 2015.
- 16) **Taghavi S.**, Jayarajan S.N., Komaroff E., Mangi A.A. Requirement of Right Ventricular Assist Device Results in Worse Post-Transplant Survival. Oral Presentation. *Eastern Cardiothoracic Surgical Society*. October 2014.
- 17) **Taghavi S.**, Jayarajan S., Mangi A., Hollenbach H., Dauer E., Sjöholm L.O., Pathak A., Santora T., Goldberg A., Rappold J. Examining Non-Cardiac Surgical Procedures in Patients Supported with Extracorporeal Membrane Oxygenation. Poster Presentation. *American College of Surgeons Annual Clinical Congress*. October 2014.
- 18) Powers B.P., Jayarajan S., **Taghavi S.**, Safi C., Willis A.I. Trends in Lymph Node Examination, Positivity, and Outcomes in Gastric Cancer. *American College of Surgeons Annual Clinical Congress*. October 2014.
- 19) Furuya Y., Jayarajan S., **Taghavi S.**, Cordova F., Patel N., Shiose A., Leotta E., Criner G., Guy T., Wheatley G., Kaiser L., Toyoda Y. Impact of Alemtuzumab and Basiliximab Induction on Graft and Recipient Survival in Orthotopic Lung Transplantation. Oral Presentation. *Chest 2014 Annual Conference*. October 2014.
- 20) Vazquez Z., Cordova F., Zhao H., **Taghavi S.**, Jayarajan S., Toyoda Y., Criner G. The Implementation of the Lung Allocation Score Improves Post-Transplant Survival in Patients with Idiopathic Pulmonary Fibrosis. Poster Presentation. *American Thoracic Society*. May 2014.
- 21) **Taghavi S.**, Jayarajan S., Komaroff E., Shiose A., Schwartz D., Hamad H., Alvarez R., Wheatley G., Guy T., Toyoda Y. Use of Heavy Drinking Donors in Heart Transplantation is Not Associated with Worse Short- and Medium-Term Mortality. Poster Presentation. *International Society of Heart and Lung Transplantation*. April 2014.
- 22) Jayarajan S., **Taghavi S.**, Komaroff E., Shiose A., Schwartz D., Hamad H., Alvarez R., Wheatley G., Guy T., Toyoda Y. Examining Long-Term Outcomes in Heart Transplantation Using Donors with a History of Past and Present Cocaine Use. Oral Presentation. *International Society of Heart and Lung Transplantation*. April 2014.

- 23) **Taghavi S.**, Beyer C., Vora H., Jayarajan S., Toyoda Y., Dujon J., Sjöholm L.O., Pathak A., Santora T., Goldberg A.J., Rappold J. Noncardiac Surgical Procedures in Patients on Mechanical Circulatory Support. Oral Presentation. *Annual Academic Surgical Congress*. February 2014.
- 24) **Taghavi S.**, Jayarajan S.N., Komaroff E., Shiose A., Leotta E., Hisamoto K., Patel N., Cordova F., Criner G., Guy T.S., Toyoda Y. Examining ABO Compatible Donors in Double Lung Transplantation During the Era of Lung Allocation Score. Oral Presentation. *Society of Thoracic Surgeons*. January 2014.
- 25) **Taghavi S.**, Ferrer L., Jayarajan S.N., Vora H., McKee C., Milner R.E., Gaughan J.P., Rappold J., Dujon J., Sjöholm L.O., Pathak A., Rappold J., Santora T.A., Houser S.R., Goldberg A.J. "Permissive Hypoventilation" in a Swine Model of Hemorrhagic Shock. Oral Presentation. *Eastern Association for the Surgery of Trauma Scientific Assembly*. January 2014.
- 26) **Taghavi S.**, Jayarajan S.N., Komaroff E., Mangi A.A. Continuous Flow LVAD Technology Has Influenced Wait Times and Donor Allocation in Cardiac Transplantation. Oral Presentation. *American Heart Association Annual Scientific Sessions*. November 2013.
- 27) Jayarajan S.N., **Taghavi S.**, Komaroff E., Mangi A.A. PCI Prior to CABG During the Same Admission is Associated with Increased In-Hospital Mortality and Increased Cost: A propensity Adjusted Analysis of the National Inpatient Sample. Poster Presentation. *American Heart Association Annual Scientific Sessions*. November 2013.
- 28) **Taghavi S.**, Jayarajan S.N., Komaroff E., Shiose A., Leotta E., Hisamoto K., Patel N., Cordova F., Criner G., Guy T.S., Toyoda Y. Single Lung Transplantation with ABO Compatible Donors Results in Excellent Outcomes. Oral Presentation. *Eastern Cardiothoracic Surgical Society*. October 2013.
- 29) **Taghavi S.**, Ward C., Jayarajan S.N., Gaughan J., Wilson L., Mangi A.A. Surgical Technique Influences Heartmate-2 Left Ventricular Assist Device Thrombosis. Poster Presentation. *American Transplant Congress*. May 2013.
- 30) **Taghavi S.**, Jayarajan S.N., Komaroff E., Horai T., Brann S., Cordova F., Criner G., Guy T.S., Toyoda Y. Single Lung Transplantation Can Be Safely Performed Using Donors With Heavy Smoking History. Poster Presentation. *International Society of Heart and Lung Transplantation*. April 2013.
- 31) **Taghavi S.**, Sharp T.A., Duran J.M., Makarewich C.A., Khoche S., Berretta R.M., Starosta T., Kubo H., Houser S.R. Autologous CD117+ Mesenchymal Stem Cell Injections Provide Superior Therapeutic Benefit As Compared to CD117+ Cardiac-Derived Stem Cells in a Feline Model of Isoproterenol Induced Cardiomyopathy. Oral Presentation. *Annual Academic Surgical Congress*. February 2013.
- 32) **Taghavi S.**, Jayarajan S.N., Wilson L., Komaroff E., Mangi A.A. Cardiac Transplantation Can Be Safely Performed Using Diabetic Donors. Oral Presentation. *Annual Academic Surgical Congress*. February 2013.
- 33) **Taghavi S.**, Jayarajan S.N., Wilson L., Komaroff E., Mangi A.A. Cardiac Transplantation With ABO Compatible Donors Has Equivalent Long-Term Survival. Oral Presentation. *Annual Academic Surgical Congress*. February 2013.
- 34) Jayarajan S.N., **Taghavi S.**, Wilson L., Komaroff E., Mangi A.A. Cardiac Transplantation Can Be Safely Performed Using Low Donor to Recipient Body Weight Ratios: An Analysis of UNOS. Oral Presentation. *Annual Academic Surgical Congress*. February 2013.
- 35) Jayarajan S.N., **Taghavi S.**, Komaroff E., Brann S., Horai T., Guy S., Toyoda Y. Impact of Extra-Corporeal Membrane Oxygenation or Mechanical Ventilation as Bridge to Combined Heart-Lung Transplantation on Short- and Long-Term Survival. Oral Presentation. *Annual Academic Surgical Congress*. February 2013.
- 36) Jayarajan S.N., **Taghavi S.**, Davey A., Powers B., Willis A. Evaluating the Prognostic Value of Extensive Lymph Node Examinations in Gastric Adenocarcinoma: An Analysis of the Surveillance, Epidemiology, and End Results (SEER) Database. Oral Presentation. *Annual Academic Surgical Congress*. February 2013.

- 37) **Taghavi S.**, Jayarajan S.N, Komaroff E., Horai T., Brann S., Cordova F., Criner G., Guy T.S., Toyoda Y. Double Lung Transplantation Can Be Safely Performed Using Donors With Heavy Smoking History. Oral Presentation. *Society of Thoracic Surgeons*. January 2013.
- 38) Powers B.P., Daly M.P., Davey A., **Taghavi S.**, Jayarajan S.N., Willis A.I. The Impact of Race on Gastric Cancer Outcomes In the United States. Poster Presentation. *American Society of Clinical Oncology Gastrointestinal Annual Symposium*. January 2013.
- 39) **Taghavi S.**, Jayarajan S.N., Khoche S., Duran J.M., Cruz-Schiavone G.E., Milner R.E., Holt-Bright L., Gaughan J.P., Rappold J., Sjöholm L.O., Dujon J., Pathak A., Santora T.A., Houser S.R., Goldberg A.J. Intubation Does Not Result in a Survival Advantage in a Swine Hemorrhagic Shock Model Simulating Penetrating Trauma. Oral Presentation. *American Heart Association Annual Scientific Sessions*. November 2012.
- 40) Khoche S., Barr L., Zhang H., Makarewich C.A., **Taghavi S.**, Houser S.R. T-type Calcium Channel Overexpression in Mice Attenuates Recovery from Bupivacaine Induced Cardiac Arrest. Oral Presentation. *American Heart Association Annual Scientific Sessions*. November 2012.
- 41) **Taghavi S.**, Clark R., Jayarajan S.N., Gaughan J., Brann S.H., Mangi A.A. Surgical Management of Tricuspid Endocarditis in Systemically Infected Patients. Poster Presentation. *Chest 2012 Annual Conference*. October 2012.
- 42) **Taghavi S.**, Vora H., Jayarajan S.N., Gaughan J.P., Pathak A., Santora T.A., Goldberg A.J. Pre-hospital Intubation Does Not Decrease Complications in the Penetrating Trauma Patient. Poster Presentation. *American College of Surgeons Annual Clinical Congress*. October 2012.
- 43) Jayarajan S.N., **Taghavi S.**, Komaroff E., Pathak A., Santora T.A., Goldberg A.J. Pre-hospital Intubation Associated with Adult Trauma Mortality: Effect of Rural Locations and Trauma Center Level. Poster Presentation. *American College of Surgeons Annual Clinical Congress*. October 2012.
- 44) **Taghavi S.**, Jenkins M., Wilson L., Clark R., Benish L.A., Gaughan J., Mangi A.A. “Bridging Strategies” Allow Successful Management of INTERMACS Profile 1 and 2 Patients. Poster Presentation. *Heart Failure Society of America*. September 2012.
- 45) Duran J.M., Sharp T.E., **Taghavi S.**, Beretta R.M., Gaughan J., Rabinowitz J.E., Kubo H., Houser S.R. Increasing Expression of Connexin-43 in Bone Marrow Stem Cells Enhances their Protective Effects on the Infarcted Heart. Poster Presentation. *American Heart Association Basic Cardiovascular Sciences (BCVS) Annual Meeting*. July 2012.
- 46) Jayarajan S.N., **Taghavi S.**, O’Shaughnessy G., Reynolds A., Milner R., Gaughan J., Nathan H., Goldberg A.J. Improved Communication of Brain Death Increases Donor Conversion Rates. Poster Presentation. *American Transplant Congress Annual Meeting*. June 2012.
- 47) **Taghavi S.**, Hamad E., Wilson L., Clark R., Jayarajan S.N., Uriel N., Goldstein D., Takayama H., Naka Y., Mangi A.A. Addition of Mitral Valve Repair to Left Ventricular Assist Device Implantation. Poster Presentation. *Annual Meeting and Scientific Sessions of the International Society of Heart and Lung Transplantation*. April 2012.
- 48) Kumar S., Ward C., **Taghavi S.**, Wilson L.M., Mangi, A.A. Outcomes of LVAD Insertion in Ischemic vs. Non-Ischemic Cardiomyopathy Patients. Oral Presentation. *Annual Meeting of the Scandinavian Society of Research in Cardiothoracic Surgery*. February 2012.
- 49) **Taghavi S.**, Wilson L.M., Brann S.H., Gaughan J.P., Mangi A.A. Cardiac Transplantation Can Be Safely Performed Using Low Donor to Recipient Body Weight Ratios. Poster Presentation. *Society of Thoracic Surgeons Annual Meeting*. January 2012.
- 50) **Taghavi S.**, Jayarajan S.N., Davey A., Willis A.I. Signet Ring Cell Gastric Cancer: Harbinger of Doom? Poster Presentation. *Society of Surgical Oncology Annual Cancer Symposium*. March 2012.

- 51) **Taghavi S.**, Jayarajan S.N., Duran J.M., Gaughan J.P., Pathak A., Santora T.A., Willis A.I., Goldberg A.J. Does Payer Status Matter in Penetrating Trauma? Oral Presentation. *Annual Academic Surgical Congress*. February 2012.
- 52) **Taghavi S.**, Jayarajan S.N., Gaughan J.P., Willis A.I. Epidemiology of Rectal and Small Intestinal Carcinoids: Two Distinct Tumors? Poster Presentation. *American Society of Clinical Oncology Gastrointestinal Annual Symposium*. January 2012.
- 53) **Taghavi S.**, Jayarajan S.N., Duran J.M., Cruz-Schiavone G.E., Milner R.E., Gaughan J.P., Sjolholm L.O., Pathak A., Santora T.A., Houser S.R., Goldberg A.J. Oral Presentation. Still Making the Case for “Scoop and Run”: A Rat Hemorrhagic Shock Model. *Eastern Association for the Surgery of Trauma Scientific Assembly*. January 2012.
- 54) Duran, J.M., **Taghavi, S.**, Husain, S., Starosta, T., Kubo, H., Berretta, R. M., Houser, S.R. Ischemic Injury in a Mouse Myocardial Infarction Model Induces Endogenous Myocyte Proliferation First in the Border Zone and Later in Viable Myocardium from the Site of Injury. Poster Presentation. *Keystone Symposia*. January 2012.
- 55) **Taghavi S.**, Duran J.M., Berretta R., Makarewich C., Udeshi F., Sharp T., Kubo H., Houser S.R., George J. Validation of the NOGA 3D Left Ventricular Electromechanical Mapping System for Assessment of Cardiac Function and Localized Transendocardial Stem Cell Injection in a Porcine Ischemia-Reperfusion Model. Oral Presentation. *American Heart Association Annual Scientific Sessions*. November 2011.
- 56) **Taghavi S.**, Jayarajan S.N., Benish L., Wilson L.M., Mangi A.A. Choice of Left Ventricular Assist Device and Addition of Mitral Valve Do Not Influence Reduction in Pulmonary Vascular Resistance. Poster Presentation. *CHEST 2011 Annual Conference*. October 2011.
- 57) Willis A.I., **Taghavi S.**, Nick D., Dempsey D.T. Rectal Carcinoids in the Era of Screening Colonoscopy. Poster Presentation. *Society of Black Academic Surgeons Annual Conference*. April 2011.

Peer Reviewed Original Research Publications

- 1) Kadakia A., **Taghavi S.**, Jayarajan S., Ambur V., Wheatley G., Kaiser L., Toyoda Y. Examining Mortality and Rejection in Heart-Lung Transplantations. *The Thoracic and Cardiovascular Surgeon*. Accepted for Publication.
- 2) Ambur V., **Taghavi S.**, Kadakia S., Jayarajan S.N., Gaughan J.P., Dauer E., Sjolholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Does Socioeconomic Status Predict Outcomes After Cholecystectomy? *American Journal of Surgery*. 2017; 213; 102(4): 100-104.
- 3) Ambur V., **Taghavi S.**, Jayarajan S., Kadakia S., Zhao H., Gomez-Abraham J., Toyoda Y. The Impact of Diabetic Donors in Lung Transplantation. *European Journal of Cardio-Thoracic Surgery*. 2017;1;51(2): 285-290.
- 4) Furuya Y., Jayarajan S., **Taghavi S.**, Cordova F., Patel N., Shiose A., Leotta E., Criner G., Guy T., Wheatley G., Kaiser L., Toyoda Y. Impact of Alemtuzumab and Basiliximab Induction on Graft and Recipient Survival in Orthotopic Lung Transplantation. *American Journal of Transplantation*. 2016; 16(8): 2334-2341.
- 5) Ambur V., Kadakia S., **Taghavi S.**, Jayarajan S., Kashem M., McCarthy J., Shiose A., Wheatley G., Toyoda Y., Guy T. Axillary Artery Access for Combined Endo-Aortic Balloon Occlusion and Perfusion During Robotic Mitral Valve Surgery. *Innovations*. 2016; 11(3): 217-218.
- 6) Kachroo P., Rove J., Bribriescio A., **Taghavi S.**, Pasque C. Pasque M. Cardiothoracic Organ Procurement for Transplantation: How I Teach it. *Annals of Thoracic Surgery*. 2016; 102(4):1042-1045.
- 7) **Taghavi S.**, Jayarajan S., Mangi A., Chan E., Dauer E., Sjolholm L., Pathak A., Santora T., Goldberg A., Rappold J. Non-Cardiac Surgical Procedures After Left Ventricular Assist Device Implantation. *ASAIO Journal*. 2016; 62(4): 370-374.
- 8) **Taghavi S.**, Jayarajan S.N., Komaroff E., Mangi A.A. Right Ventricular Assist Device Results in Worse Post-Transplant Survival. *Journal of Heart and Lung Transplantation*. 2016;35(2): 236-241.

- 9) Ambur V., **Taghavi S.**, Jayarajan S.N., Gaughan J.P., Dauer E., Sjöholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Comparing Open Gastrostomy Tube to Percutaneous Endoscopic Gastrostomy Tube in Heart Transplant Patients. *Annals of Medicine and Surgery*. 2016;7: 71-74.
- 10) **Taghavi S.**, Jayarajan S.N., Ambur V., Gaughan J.P., Dauer E., Sjöholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Comparison of Open Gastrostomy Tube to Percutaneous Endoscopic Gastrostomy Tube in Lung Transplant Patients. *Annals of Medicine and Surgery*. 2015;23(5): 76-80.
- 11) **Taghavi S.**, Sharp T.A., Duran J.M., Makarewich C.A., Berretta R.M., Starosta T., Kubo H., Houser S.R. Autologous CD117+ Mesenchymal Stem Cell Injections Provide Superior Therapeutic Benefit As Compared to CD117+ Cardiac-Derived Stem Cells in a Feline Model of Isoproterenol Induced Cardiomyopathy. *Clinical and Translational Science*. 2015;8(5): 425-431.
- 12) **Taghavi S.**, Jayarajan S., Mangi A., Chan E., Dauer E., Sjöholm L., Pathak A., Santora T., Goldberg A., Rappold J. Examining Non-Cardiac Surgical Procedures in Patients Supported with Extracorporeal Membrane Oxygenation. *ASAIO Journal*. 2015;61(5): 520-525.
- 13) **Taghavi S.**, Ambur V., Jayarajan S.N., Gaughan J.P., Dauer E., Sjöholm L.O., Pathak A., Santora T.A., Rappold J., Goldberg A.J. Post-Operative Outcomes with Cholecystectomy in Lung Transplant Recipients. *Surgery*. 2015;158(2): 373-378.
- 14) **Taghavi S.**, Jayarajan S., Komaroff E., Shiose A., Schwartz D., Hamad H., Alvarez R., Wheatley G., Guy T., Toyoda Y. Use of Heavy Drinking Donors in Heart Transplantation is Not Associated with Worse Mortality. *Transplantation*. 2015;99(6): 1226-1230.
- 15) Jayarajan S., **Taghavi S.**, Komaroff E., Shiose A., Schwartz D., Hamad H., Alvarez R., Wheatley G., Guy T., Toyoda Y. Examining Long-Term Outcomes in Heart Transplantation Using Donors with a History of Past and Present Cocaine Use. In Press. *European Journal of Cardio-Thoracic Surgery*. 2015;47(4): 146-150.
- 16) **Taghavi S.**, Beyer C., Vora H., Jayarajan S., Toyoda Y., Dujon J., Sjöholm L.O., Pathak A., Santora T., Goldberg A.J., Rappold J. Noncardiac Surgical Procedures in Patients on Mechanical Circulatory Support. *ASAIO Journal*. 2014;60(6): 670-674.
- 17) **Taghavi S.**, Jayarajan S.N., Komaroff E., Shiose A., Leotta E., Hisamoto K., Patel N., Cordova F., Criner G., Guy T.S., Toyoda Y. Examining ABO Compatible Donors in Double Lung Transplantation During the Era of Lung Allocation Score. *Annals of Thoracic Surgery*. 2014;98(4): 1167-1174.
- 18) **Taghavi S.**, Jayarajan S.N., Komaroff E., Mangi A.A. Continuous Flow LVAD Technology Has Influenced Wait Times and Donor Allocation in Cardiac Transplantation. *Journal of Thoracic and Cardiovascular Surgery*. 2014;147(6): 1966-1971.
- 19) **Taghavi S.**, Jayarajan S.N., Furuya Y., Komaroff E., Shiose A., Leotta E., Hisamoto K., Patel N., Cordova F., Criner G., Guy T.S., Toyoda Y. Single Lung Transplantation with ABO Compatible Donors Results in Excellent Outcomes. *Journal of Heart and Lung Transplantation*. 2014;33(8): 822-828.
- 20) **Taghavi S.**, Jayarajan S.N., Ferrer L., Vora H., McKee C., Milner R.E., Gaughan J.P., Rappold J., Dujon J., Sjöholm L.O., Pathak A., Rappold J., Santora T.A., Houser S.R., Goldberg A.J. "Permissive Hypoventilation" in a Swine Model of Hemorrhagic Shock. Oral Presentation. *Journal of Trauma and Acute Care Surgery*. 2014;77(1): 14-19.
- 21) **Taghavi S.**, Vora H., Jayarajan S.N., Gaughan J.P., Pathak A., Santora T.A., Goldberg A.J. Pre-hospital Intubation Does Not Decrease Complications in the Penetrating Trauma Patient. *The American Surgeon*. 2014; 80(1): 9-14.
- 22) Jayarajan S.N., **Taghavi S.**, Komaroff E., Brann S., Horai T., Cordova F., Patel N., Guy S., Toyoda Y. Impact of Extra-Corporeal Membrane Oxygenation or Mechanical Ventilation as Bridge to Combined Heart-Lung Transplantation on Short- and Long-Term Survival. *Transplantation*. 2014; 97(1): 111-115.

- 23) **Taghavi S.**, Ward C., Jayarajan S.N., Gaughan J., Wilson L., Mangi A.A. Surgical Technique Influences Heartmate-2 Left Ventricular Assist Device Thrombosis. *Annals of Thoracic Surgery*. 2013; 96(4): 1259-1265.
- 24) **Taghavi S.**, Jayarajan S.N., Komaroff E., Horai T., Brann S., Patel N., Cordova F., Criner G., Guy T.S., Toyoda Y. Single Lung Transplantation Can Be Safely Performed Using Donors With Heavy Smoking History. *Journal of Heart and Lung Transplantation*. 2013; 32(10): 1005-1012.
- 25) **Taghavi S.**, Jayarajan S.N., Wilson L.M., Komaroff E., Testani J.M., Mangi A.A. Cardiac Transplantation Can Be Safely Performed Using Selected Diabetic Donors. *Journal of Thoracic and Cardiovascular Surgery*. 2013; 146(2): 442-447.
- 26) Jayarajan S.N., **Taghavi S.**, Wilson L., Komaroff E., Mangi A.A. Impact of Low Donor to Recipient Weight Ratios on Cardiac Transplantation. *Journal of Thoracic and Cardiovascular Surgery*. 2013; 146(6): 1583-1543.
- 27) **Taghavi S.**, Jayarajan S.N., Komaroff E., Horai T., Brann S., Cordova F., Criner G., Guy T.S., Toyoda Y. Double Lung Transplantation Can Be Safely Performed Using Donors With Heavy Smoking History. *Annals of Thoracic Surgery*. 2013; 95(6): 1912-1918.
- 28) **Taghavi S.**, Jayarajan S.N., Wilson L., Komaroff E., Mangi A.A. Cardiac Transplantation With ABO Compatible Donors Has Equivalent Long-Term Survival. *Surgery*. 2013; 154(2): 274-281.
- 29) **Taghavi S.**, Hamad E., Wilson L., Clark R., Jayarajan S.N., Uriel N., Goldstein D., Takayama H., Naka Y., Mangi A.A. Addition of Mitral Valve Repair to Left Ventricular Assist Device Implantation. *ASAIO Journal*. 2013; 59(5): 469-473.
- 30) **Taghavi S.**, Clark R., Jayarajan S.N., Gaughan J., Brann S.H., Mangi A.A. Surgical Management of Tricuspid Endocarditis in Systemically Infected Patients. *The Journal of Heart Valve Disease*. 2013; 22(4):578-583.
- 31) **Taghavi S.**, Jayarajan S.N., Powers B.P., Davey A., Willis A.I. Examining Rectal Carcinoids in the Era of Screening Colonoscopy. *Diseases of the Colon and Rectum*. 2013; 56(8): 952-959.
- 32) **Taghavi S.**, Jayarajan S.N., Khoche S., Duran J.M., Cruz-Schiavone G.E., Milner R.E., Holt-Bright L., Gaughan J.P., Rappold J., Sjöholm L.O., Dujon J., Pathak A., Santora T.A., Houser S.R., Goldberg A.J. Examining Prehospital Intubation for Penetrating Trauma in a Swine Hemorrhagic Shock Model. *Journal of Trauma and Acute Care Surgery*. 2013; 74(5), 1246-1251.
- 33) Duran J.M., **Taghavi S.**, Berretta R.M., Makarewich C., Sharp T., Starosta T., Udeshi F., George J.C., Kubo H., Houser S.R. Characterization and Targeting of the Infarct Border Zone in a Swine Model of Myocardial Infarction. *Clinical and Translational Science*. 2012; 5(5): 416-421.
- 34) **Taghavi S.**, Jayarajan S.N., Davey A., Willis A.I. Prognostic Significance of Signet Ring Gastric Cancer. *Journal of Clinical Oncology*. 2012; 30(28): 3486-3492.
- 35) **Taghavi S.**, Wilson L.M., Brann S.H., Gaughan J.P., Mangi A.A. Cardiac Transplantation Can Be Safely Performed Using Low Donor to Recipient Body Weight Ratios. *Journal of Cardiac Failure*. 2012; 18(9):688-693.
- 36) **Taghavi S.**, Duran J.M., Jayarajan S.N., Cruz-Schiavone G.E., Milner R.E., Gaughan J.P., Sjöholm L.O., Pathak A., Santora T.A., Houser S.R., Goldberg A.J. Still Making the Case Against Pre-Hospital Intubation: A Rat Hemorrhagic Shock Model. *Journal of Trauma and Acute Care Surgery*. 2012; 73(2):332-337.
- 37) **Taghavi S.**, Jayarajan S.N., Duran J.M., Gaughan J.P., Pathak A., Santora T.A., Willis, A.I., Goldberg, A.J. Does Payer Status Matter in Penetrating Trauma? *Surgery*. 2012; 152(2):227-231.
- 38) **Taghavi S.**, Duran J.M., Berretta R., Makarewich C., Udeshi F., Sharp T., Kubo H., Houser S.R., George J.C. Validation of Transcatheter Left Ventricular Electromechanical Mapping for Assessment of Cardiac Function and

Targeted Transendocardial Injection in a Porcine Ischemia-Reperfusion Model. *American Journal of Translational Research*. 2012; 4(2): 240-246.

- 39) Kepley C., **Taghavi S.**, Mackay G., Zhu D., Morel P., Zhang K., Ryan J., Satin L., Zhang M., Pandolfi P., Saxon A. Co-aggregation of FcRII with FcRI on Human Mast Cells Inhibits Antigen-induced Secretion and Involves SHIP-Grb2-Dok Complexes. *Journal of Biological Chemistry*. 2004; 279(34): 35139-35149.

Invited Lectureships

- 1) Non-Cardiac Surgical Procedures in Thoracic Transplant and Mechanical Circulatory Support Patients. Temple University Hospital. Department of Surgery Grand Rounds. June 3, 2015.

Review Articles

- 1) **Taghavi S.**, Askari R. *Trauma, Mediastinum*. StatPearls Publishing. 2018. Accepted for Publication
- 2) **Taghavi S.**, Askari R. *Shock, Hypovolemic*. StatPearls Publishing. 2018. PubMed ID:30020608
- 3) **Taghavi S.**, Askari R. *Trauma, Liver*. StatPearls Publishing. 2018. PubMed ID: 30020669.
- 4) **Taghavi S.**, George J.C. Homing of Stem Cells To Ischemic Myocardium. *American Journal of Translational Research*. 2013; 5(4): 404-411.
- 5) Duran J.M., **Taghavi S.**, George J.C. The Need for Standardized Protocols for Future Clinical Trials of Cell Therapy. *Translational Research: The Journal of Laboratory and Clinical Medicine*. 2012; 160 (6):399-410.
- 6) **Taghavi S.**, Duran J.M., George J.C. Stem Cell Therapy for Refractory Angina. *Stem Cell Studies*. 2011; Volume 1;e8: 57-64.
- 7) **Taghavi S.**, Duran J.M., George J.C. Stem Cell Therapy for Peripheral Arterial Disease: A Review of Clinical Trials. *Stem Cell Studies*. 2011; Volume 1;e17: 104-114.

Book Chapters

- 1) **Taghavi S.**, Salim A. Brain Failure and Brain Death. In Ashley S. (Ed.) *Scientific American Surgery*. Toronto, ON: Decker. In Press.
- 2) **Taghavi S.**, Askari R., Rogers S. How Do We Manage HBP Injuries in the Perioperative Period? In Chu D. et al. (Eds.) *Hepato-Pancreato-Biliary and Transplant Surgery: Practical Management of Dilemmas (1e)*. Louisiana: Beaux Books. In Press.
- 3) Hirji S., **Taghavi S.**, Askari R. Necrotizing Soft Tissue Infection. In Brown C. et al (Eds.) *Emergency General Surgery: A Practical Approach (1e)*. New York, NY: Springer. In Press.
- 4) Coleman M., **Taghavi S.**, Seshadri A., Aubry R., Askari R. Surgical and Interventional Radiology Techniques for Obtaining Enteral Access. In Robinson M. (Ed.) *Scientific American Nutrition*. Toronto, ON: Decker. In Press.
- 5) Hirji S., **Taghavi S.**, Askari R. Fungal, Viral, and Other Oddball Infections and the Immunosuppressed Patient. In Salim. et al (Eds.) *Surgical Critical Care Therapy (1e)*. New York, NY: Springer. ISBN 978-3-319-71712-8.
- 6) **Taghavi S.**, Mangi A., Agnihotri A. Post-Infarction Ventricular Septal Defect Repair. In Selk F., Ruel M. (Eds.), *Atlas of Cardiac Surgical Techniques, (2e)*. Waltham, MA: Elsevier. ISBN 978-0-323-46294-5.
- 7) Kadakia S., Ambur V., **Taghavi S.**, Shiose A., Toyoda Y. Mechanical Circulatory Support Devices. In *Organ Transplantation*. Rijeka, Croatia: InTech. ISBN 978-953-51-4677-3

- 8) **Taghavi S.,** Mangi A.A. (2015). Postinfarction Ventricular Septal Defect and Ventricular Rupture. In: Sellke F.W. (Eds.), *Sabiston and Spencer's Surgery of the Chest (9e)*. Waltham, MA: Elsevier. ISBN 978-0-323-24126-7.
- 9) **Taghavi S.,** Mangi A.A. (2015). Patient Selection. In Eisen H. (Eds.), *Heart Failure: A Comprehensive Guide to Pathophysiology and Clinical Care (1e)*. New York, NY: Springer. ISBN 978-1-4471-4219-5.

Educational Media

- 1) **Taghavi S.,** Gaughan C. Tracheal-Esophageal Fistula Learning Objectives. *Surgical Council on Resident Education (SCORE) Online Module*. <https://portal.surgicalcore.org>. June 2012.
- 2) **Taghavi S.,** Gaughan C. Tracheal-Inominate Fistula Learning Objectives. *Surgical Council on Resident Education (SCORE) Online Module*. <https://portal.surgicalcore.org>. June 2012.

Journal Reviewer

American Journal of Respiratory and Critical Care Medicine (The Blue Journal), Ad hoc reviewer

Annals of Thoracic Surgery, Ad hoc reviewer

International Journal of Surgery, Ad hoc reviewer

Global Health Experiences

- 3/13-5/13 **Mahaveer Jain Hospital,** Bangalore, India
 Cardiovascular and Thoracic Surgery Rotation
 Preceptor: Dr. Ganesh Nayak, M.D.
 Provided pre- and post-operative clinical care to patients undergoing cardiovascular and thoracic surgical procedures. Participated in the operative treatment of patients undergoing cardiac and thoracic surgery.
- 1/08-4/08 **Kenya Methodist Hospital,** Maua, Kenya
 General and Trauma Surgery Rotation
 Preceptor: Dr. John Muchiri, Ph.D.
 Participated in the clinical care of patients with general surgical, traumatic, and urological problems. Delivered care to patients in the outpatient clinic, inpatient hospital ward, and operating room.
- 5/05-8/05 **Iranian Hemophilia Treatment Center,** Tehran, Iran
 Hematology Rotation
 Preceptor: Freydoon Alla, M.D.
 Participated in the care of patients with hemophilia and other bleeding disorders.

Volunteer Experiences

- 3/02-5/08 **Co-Founder, Foundation for Health and Education Development**
 Richmond, Virginia
 Co-founded a non-governmental, non-profit organization that provides aid to developing countries. Organized fundraisers for victims of Hurricane Katrina, Iranian earthquake survivors, and Tsunami victims.
- 1/00-5/02 **Emergency Medical Technician, Western Albemarle Volunteer Rescue Squad**
 Crozet, Virginia
 Provided basic life support to patients during ambulatory transport to the hospital. Performed such skills as oxygen administration, CPR, monitoring vital signs, and wound management.

Lay Press Appearances

Heavy Smokers Can Be Successful Lung Donor Candidates. **CNN News**. January 29, 2013. Reporter: Nadia Kounang. Found at: <http://thechart.blogs.cnn.com/2013/01/29/heavy-smokers-can-be-successful-lung-donor-candidates/#comments>

Societal Memberships

2018-present	Surgical Infection Society
2017-present	Eastern Association for the Surgery of Trauma (EAST)
2017-present	Society of Critical Care Medicine (SCCM)
2017-present	American College of Chest Physicians (CHEST)
2017-present	American Thoracic Society
2016-present	American Trauma Society
2016-present	The Shock Society
2012-present	Association for Academic Surgery
2012-2015	Philadelphia Academy of Surgery
2011-present	American Heart Association
2011-present	American Society of Clinical Oncology
2008-present	American College of Surgeons
2004-2008	American Medical Student Association

Professional Committees and Leadership Positions

2014-2015	Administrative Chief Resident, Temple University Hospital, Department of Surgery
2014-2015	Peer Review Committee, Temple University Hospital
2013-2014	Operating Room Committee, Temple University Hospital
2013-2014	Cholecystectomy Redesign Initiative Committee, Temple University Hospital
2013-2014	Education Committee, Department of Surgery, Temple University Hospital
2007-2008	Treasurer, American Medical Student Association, Tufts University Chapter

Honors and Awards

2015	Award Winner, American College of Surgeons (ACS) Leadership Conference and Advocacy Summit Scholarship
2015	Winner, Robert D. Harwick Resident Research Symposium, Temple University Hospital Department of Surgery

2011-2013 Award Winner, Ruth L. Kirschstein National Research Service Award, National Institute of Health (NIH)

2013 First Place, Best Cardiac Surgery Paper, Eastern Cardiothoracic Surgical Society Annual Scientific Assembly

2013 Second Place, Basic Science Paper, American College of Surgeons Region 3 Committee on Trauma, Annual Resident Paper Competition

2013 First Place, Basic Science Paper, Pennsylvania Committee on Trauma, Annual Resident Paper Competition

2013 Honorable, Eastern Association for the Surgery of Trauma, Raymond H. Alexander Resident Paper Competition

2013 Third Place, Robert D. Harwick Resident Research Symposium, Temple University Hospital Department of Surgery

2013 Finalist, Philadelphia Academy of Surgery, Resident Paper Competition

2012 Selection, Medical Student Poster Awards Judge at the American College of Surgeons (ACS) 98th Annual Clinical Congress

2012 Finalist, American Heart Association, Cournand and Comroe Young Investigator Award

2011 Finalist, Eastern Association for the Surgery of Trauma, Raymond H. Alexander Resident Paper Competition

2010 Award Winner, Society of Thoracic Surgeons (STS), Looking to the Future Scholarship Award

2008 Winner, Dr. Ernest Grable Prize for the Outstanding Graduating Medical Student who excelled in the study of surgery

2001 Alpha Epsilon Delta, National Premedical Honor Society