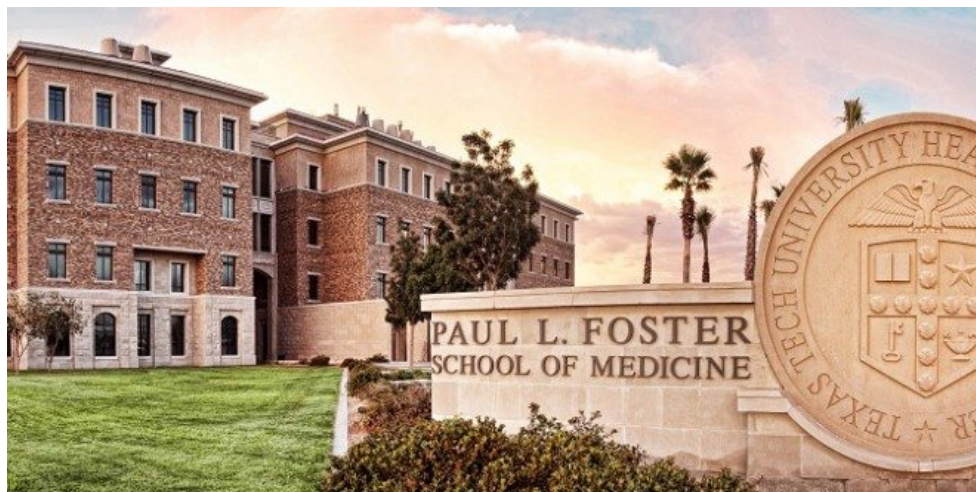


Annual Research Productivity Report



TEXAS TECH UNIVERSITY
HEALTH SCIENCES CENTER™
EL PASO

Paul L. Foster School of Medicine
Department of Internal Medicine



DEPARTMENT OF INTERNAL MEDICINE
DIVISION OF CARDIOVASCULAR MEDICINE

FY 2020

1 September 2019 – 30 June 2020



2019-2020*

PUBMED PEER REVIEW PUBLICATIONS

JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS

1. Bagai J, Bhuiyan AR, White CJ, **Mukherjee D**, Paul TK. Outcomes Following Percutaneous Coronary Intervention Before, During, and After Transition to a Default Transradial Approach at a Veterans Affairs Medical Center. *Angiology*. 2020 Apr 22;3319720920159. PMID: [32319299](#)
2. Cruz Rodriguez JB, Stewart GC, Pamboukian SV, Tallaj JA, Rajapreyar I, Kirklin JK, Holman WL, Hoopes CW, **Mukherjee D**, et al.. Clinical characteristics and outcomes of patients requiring prolonged inotropes after left ventricular assist device implantation. *Artif Organs* 2020 Apr 3. PMID: [32242954](#)
3. He M, Panchangam S, Cruz B, **Mukherjee D**. Underutilization of Cardiac Therapies in Patients with Acute Ischemic Stroke and Elevated Troponin. *Cardiovasc Hematol Agents Med Chem*. 2019;17(2):144-151. PMID: [31629400](#)
4. Taha Y, Bhatt DL, **Mukherjee D**, White CJ, Treece JM, Brilakis ES, Banerjee S, Paul TK. Early post-percutaneous coronary intervention chest pain: A nationwide survey on interventional cardiologists' perspective. *Cardiovasc Revasc Med*. 2020 May 16:S1553-8389(20)30258-X. PMID: [32563712](#).

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1. Cruz Rodriguez JB, **Alkhateeb H**. Beta-Blockers, Calcium Channel Blockers, and Mortality in Stable Coronary Artery Disease. *Curr Cardiol Rep*. 2020 Jan 29;22(3):12. PMID: [31997014](#)
2. Cruz Rodriguez JB, **Kar S**. Management of Angina Post Percutaneous Coronary Intervention. *Curr Cardiol Rep*. 2020 Jan 21;22(2):7. PMID: [31965355](#)
3. Ingles DP, Rodriguez JBC, **Garcia H**. Supplemental vitamins and minerals for cardiovascular disease prevention and treatment. *Curr Cardiol Rep* 2020 Feb 14;22(4):22. PMID: [32067177](#)
4. **Kar S**. Systematic review of alternative access for cardiac catheterization and percutaneous coronary intervention: Dorsal distal radial and ulnar artery catheterization. *Catheter Cardiovasc Interv*. 2019 Nov 1;94(5):706-713. PMID: [31328885](#)
5. **Kar S**. Elevated Lipoprotein A in South Asians and the Associated Risk of Cardiovascular Disease: A Systematic Review. *Curr Probl Cardiol*. 2020;100581. PMID: [32295712](#)
6. **Lehker A, Mukherjee D**. Coronary Calcium Risk Score and Cardiovascular Risk. *Curr Vasc Pharmacol*. April 2020;10.2174/1570161118666200403143518 PMID: [32242784](#)

7. Murtaza G, **Mukherjee D**, Gharacholou SM, Nanjundappa A, Lavie CJ, Khan AA, Shanmugasundaram M, Paul TK. [An updated review on myocardial bridging.](#) *Cardiovasc Revasc Med.* 2020 Feb 18;S1553-8389(20)30084-1. PMID: [32173330](#)
8. **Nagarajarao HS, Ojha CP**, Mulukutla V, **Ibrahim A**, Mares AC, Paul TK. [Current Use and Trends in Unprotected Left Main Coronary Artery Percutaneous Intervention.](#) *Curr Cardiol Rep.* 2020 Feb 8;22(4):16. PMID: [32036460](#)
9. **Nagarajarao HS, Ojha CP**, Kedar A, **Mukherjee D**. [Patent foramen ovale, role of antiplatelet therapy alone or anticoagulant therapy alone versus device closure for cryptogenic stroke: A review of literature and current recommendations.](#) *Cardiovasc Hematol Agents Med Chem.* 2020;10.2174/1871525718666200203111641. PMID: [32013839](#)
10. **Ojha CP, Ibrahim A**, Paul TK, Mulukutla V, **Nagarajarao HS**. [The Clinical Significance of Physiological Assessment of Residual Ischemia After Percutaneous Coronary Intervention.](#) *Curr Cardiol Rep.* 2020 Feb 8;22(4):17. PMID: [32036467](#)
11. Pratiti R, **Mukherjee D**. [Epidemiology and Adverse Consequences of Hookah/Waterpipe Use: A Systematic Review.](#) *Cardiovasc Hematol Agents Med Chem.* 2019;17(2):82-93. PMID: [31483237](#)
12. Shah R, Khan S, Rashid A, **Siddiqui T**, Nayyar M. [An Updated Meta-analysis of Radial versus Femoral Access for Percutaneous Coronary Intervention in the Context of Aggressive Bleeding Avoidance Strategies.](#) *Cardiovasc Revasc Med.* 2020 Feb;21(2):242-244. PMID: [31492625](#)

EDITORIAL/COMMENTARY

1. Klein LW, Box L, Krishnan S, **Kar S**, et al; Government Relations Committee and the Executive Committee of SCAI. [In defense of the AMA/specialty society RVS update committee \(RUC\).](#) *Catheter Cardiovasc Interv.* 2020 Apr 10. PMID: [32274900](#)
2. **Mukherjee D**. [Tailoring strategies to optimize ischaemic benefit vs. bleeding risk in individuals post-myocardial infarction.](#) *Eur Heart J.* 2020 Feb 14;41(7):844-846. PMID: [31504410](#)
3. **Mukherjee D**. [Coronary Revascularization in the United States-Patient Characteristics and Outcomes in 2020.](#) *JAMA Netw Open.* 2020 Feb 5;3(2):e1921322. PMID: [32058547](#)
4. **Mukherjee D**. [Cardiovascular and Hematological Medicine in 2019 - Advances and Insights.](#) *Cardiovasc Hematol Agents Med Chem.* 2019;17(1):2. PMID: [31556359](#)
5. Porres-Aguilar M, Anaya-Ayala JE, Jiménez D, **Mukherjee D**. [Pulmonary Embolism Response Teams: Pursuing Excellence in the Care for Venous Thromboembolism.](#) *Arch Med Res.* 2019 Jul;50(5):257-258.. PubMed PMID: [31593849](#)
6. Porres-Aguilar M, Jiménez D, Porres-Muñoz M, **Mukherjee D**. [Pulmonary embolism response teams: Purpose, evidence for efficacy, and future research directions.](#) *Res Pract Thromb Haemost.* 2019 Aug 9;3(4):769. PMID: [31624797](#)

7. Porres-Aguilar M, Ayala A, **Mukherjee D**, Tapson VF. Pulmonary embolism response teams in the challenging era of venous thromboembolism associated with COVID-19. *J Vasc Surg Venous Lymphat Disord*. 2020 Jun 1:S2213-333X(20)30320-6. PMID: [32497628](#).
8. Szerlip M, Feldman DN, Aronow HD, Blankenship JC, **Mukherjee D**, et al. SCAI publications committee manual of standard operating procedures. *Catheter Cardiovasc Interv*. 2020 Feb 14. PMID: [32061033](#)
9. Shanker A, **Siddiqui T**, Bashashati M. An invited commentary on "Liu Z, Ding Z, Guan X, Zhag Y, Wang X, Khan JS. Optimizing response in surgical systems during and after COVID-19 pandemic: Lessons from China and the UK - Perspective. *Int J Surg* 2020 May 4;78:156-159.". *Int J Surg*. 2020 May 19;79:60-61. PMID: 32442686

BOOKS/BOOK CHAPTERS

1. **Lange RA and Mukherjee D**. Acute Coronary Syndrome: Unstable Angina and Non-ST Elevation Myocardial Infarction. In Goldman L, Schaefer AI (eds). "Goldman-Cecil Medicine, 26th edition." Philadelphia: Elsevier; 2020. Chapter 63, 379-388.

MULTIMEDIA/Online Publications

1. **Mukherjee D**. El Paso Physicians TV Show - Advancements in Cardiac Care at UMC, Aired February 28th, 2020, <https://www.pbs.org/video/advancements-in-cardiac-care-at-umc-jxf6h1/>
2. **Mukherjee D**. Optimizing risk factors and management of chronic coronary artery disease in patients with type 2 diabetes. Available in: *American Heart Association Professional Heart Daily*. https://professional.heart.org/professional/ScienceNews/UCM_505892_Optimizing-Risk-Factors-and-Management-of-Chronic-CAD-in-Patients-with-T2DM.jsp Posted April 13, 2020

COVID – 19 related PUBLICATIONS/Perspectives

1. Porres-Aguilar M, Ayala A, **Mukherjee D**, Tapson VF. Pulmonary embolism response teams in the challenging era of venous thromboembolism associated with COVID-19. *J Vasc Surg Venous Lymphat Disord*. 2020 Jun 1:S2213-333X(20)30320-6. PMID: [32497628](#).
2. **Mukherjee D**: Association between Universal Masking and SARS-CoV-2 Positivity. <https://www.acc.org/latest-in-cardiology/journal-scans/2020/07/15/11/23/association-between-universal-masking-in-a-health>
3. **Mukherjee D**: Use of N95, Surgical, Cloth Masks to Prevent COVID-19 <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/30/13/03/use-of-n95-surgical-and-cloth>
4. **Mukherjee D**: Temperature, Humidity, Latitude, and Seasonality of COVID-19 <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/16/13/23/temperature-humidity-and-latitude-analysis>

5. **Mukherjee D:** Cardiac Manifestations in COVID-19: Echocardiographic Study <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/09/13/19/the-spectrum-of-cardiac-manifestations>
6. **Mukherjee D:** COVID-19 and Thrombotic or Thromboembolic Disease <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2020/06/08/15/31/covid-19-and-thrombotic-or-thromboembolic>
7. **Mukherjee D:** Black Patients and White Patients With COVID-19 <https://www.acc.org/latest-in-cardiology/journal-scans/2020/06/01/12/37/hospitalization-and-mortality-among-black-patients>
8. **Mukherjee D:** Ventilation Techniques and Risk for Transmission of COVID-19 <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2020/05/29/11/32/ventilation-techniques-and-risk-for-transmission>
9. **Mukherjee D:** Outcomes of Patients Hospitalized for COVID-19 and Cardiac Disease <https://www.acc.org/latest-in-cardiology/journal-scans/2020/05/15/12/34/characteristics-and-outcomes-of-patients-hospitalized>
10. **Mukherjee D:** Controversy in Managing Acute MI in the COVID-19 Era <https://www.acc.org/latest-in-cardiology/ten-points-to-remember/2020/04/06/11/32/recommendations-from-the-peking-union-medical>

Abstracts

1. **Agrawal H, Mahadevan V, Sievert H, Shunk K, Dwivedi A, Mallawaarachchi I, Siddiqui T, Mukherjee D.** Patient Foramen Ovale Closure Versus Anti-thrombotic Therapy For Patients With Cryptogenic Stroke: An Updated Meta-analysis Of Randomized Clinical Trials *Circulation*. 2019;140:A15232
2. Bkhuopathi V, **Ibrahim A, Ojha C, Nagarajaro H.** The Incidental Unmasking of Brugada Syndrome. *J Am Coll Cardiol*. 2020 Mar, 75 (11 Supplement 1) 2600.
3. Cruz B, Gosh A, Zaidi A, Mares A, **Alkhateeb H, Nagarajaro H, Ojha C.** Therapeutic conundrum: paradoxical systemic, cerebral and pulmonary emboli with an acute bleed. *J Am Coll Cardiol*. 2020 March;75(11) suppl. 1: 2996.
4. Cruz B, Infante T, **Alkhateeb H.** Actinomyces Odontolyticus: a rare cause of a common problem. *J Am Coll Cardiol*. 2020 March;75(11) suppl. 1: 2731.
5. Cruz Rodriguez JB, Mares A, Ayyappan A, **Alkhateeb H, Garcia H.** The art behind lines, opacities, adenopathy and edema: pulmonary veno-occlusive disease. *J Am Coll Cardiol*. 2020 March;75(11) suppl. 1: 3168.
6. Cruz Rodriguez JB, Stewart GC, Pamboukian SV, Tallaj JA, Rajapreyar I, Kirklin JK, Holman WW, Hoopes CW, **Mukherjee D,** et al. **Clinical Characteristics and Outcomes of Patients**

- Requiring Prolonged Inotropes after Left Ventricular Assist Device Implantation. *J Heart Lung Transplant* 39(4), Supplement, April 2020, S445-S446
7. **Kar S**, Shah A. Midterm Outcomes of Ulnar vs. Radial Percutaneous Coronary Intervention in Acute Myocardial Infarction Using Ultrasound Access. *Catheter Cardiovasc Interv.* 2020 May 14; 95 (S2_S32).
 8. **Kar S**, Espinoza C. Outcomes of Minimal Dose versus Standard Dose Radiation in Peripheral Endovascular Intervention for Limb Ischemia. *Catheter Cardiovasc Interv.* 2020 May 14; 95 (S2_S91).
 9. **Kar S**, Shah A. One Year Outcomes of Ulnar, Dorsal Distal Radial, and Radial Artery Ultrasound Guided Cardiac Catheterization and Percutaneous Coronary Intervention. *Catheter Cardiovasc Interv.* 2020 May 14; 95 (S2_S33).
 10. **Kar S, Syed S.** Midterm Gender Outcomes and Gender Disparity of Ulnar Versus Radial Cardiac Catheterization and Percutaneous Coronary Intervention Using Ultrasound Guidance. *JACC Cardiovasc Interv.* February 24, 2020, 13 (4 Supplement) S4.
 11. **Kar S, Syed S.** One Year Outcomes of Ultrasound Guided Ulnar vs. Radial Percutaneous Coronary Intervention. *JACC Cardiovasc Interv.* February 24, 2020, 13 (4 Supplement) S12.
 12. Panchangam S, He M, **Ibrahim A, Alkhateeb H.** Late bioprosthetic valve thrombosis: is there more to it? *J Am Coll Cardiol.* 2020 March;75(11) suppl. 1: 3422.
 13. Patel D, **Siddiqui T, Ibrahim A, Ojha C,** Cruz JB, Dahal R, Hussain S, Patel S, Patel R. Uncustomary metastasis: Lung cancer extension to Left atrium through Pulmonary veins. *JASE Online*, June 2020, Volume 33, Issue 6.
 14. Woods K, **Sarosiek I,** Espino K, Ramirez M, **Siddiqui T, McCallum R.** Cardiac Safety and Clinical Efficacy of High Dose Domperidone for Long-Term Treatment of Gastroparesis. *Am J Gastroenterol* 114:S685, October 2019.
 15. Woods K, Espino K, **Sarosiek I,** Waterhouse N, **Siddiqui T, McCallum RW.** Cardiac Safety And Clinical Efficacy Of High Dose Domperidone For Long-Term Treatment Of Gastroparesis Symptoms. *Gastroenterology*, 158(6) S-622. May 2020

Resident & Fellow Research (PGY 1-6)
Internal Medicine, Med/Psychiatry, and Preliminary (Neurology) Residents
Fellows Gastroenterology and Cardiology
Residents/Fellows (PGY 1-6) – Faculty Mentor

JOURNAL ARTICLES, ORIGINAL INVESTIGATIONS

1. Cruz Rodriguez JB, Stewart GC, Pamboukian SV, Tallaj JA, Rajapreyar I, Kirklin JK, Holman WL, Hoopes CW, Mukherjee D, et al.. Clinical characteristics and outcomes of patients requiring prolonged inotropes after left ventricular assist device implantation. *Artif Organs* 2020 Apr 3. PMID: [32242954](#)
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REVIEW - META ANALYSIS

1. Bhupathi V, Mazariegos M, Cruz Rodriguez JB, Deoker A. Dairy Intake and Risk of Cardiovascular Disease. *Curr Cardiol Rep.* 2020 Jan 29;22(3):11. PMID: [31997094](#)
2. Cruz Rodriguez JB, Alkhateeb H. Beta-Blockers, Calcium Channel Blockers, and Mortality in Stable Coronary Artery Disease. *Curr Cardiol Rep.* 2020 Jan 29;22(3):12. PMID: [31997014](#)
3. Cruz Rodriguez JB, Kar S. Management of Angina Post Percutaneous Coronary Intervention. *Curr Cardiol Rep.* 2020 Jan 21;22(2):7. PMID: [31965355](#)

LETTER TO THE EDITOR/EDITORIALS/COMMENT

1. Shanker A, Siddiqui T, Bashashati M. An invited commentary on "Liu Z, Ding Z, Guan X, Zhag Y, Wang X, Khan JS. Optimizing response in surgical systems during and after COVID-19 pandemic: Lessons from China and the UK - Perspective. *Int J Surg* 2020 May 4;78:156-159.". *Int J Surg.* 2020 May 19;79:60-61. PMID: [32442686](#)

Abstracts

1. Bkhupathi V, Ibrahim A, Ojha C, Nagarajarao H. The Incidental Unmasking of Brugada Syndrome. *J Am Coll Cardiol.* 2020 Mar, 75 (11 Supplement 1) 2600.
2. Bright T, Sarosiek I, Shanker A, Davis BR, Padilla O, Diaz JR, Espino K, McCallum RM. Gastric Electrical Neurostimulation Combined with Pyloroplasty for Refractory Diabetic Gastroparesis Improves Subjective and Objective Outcomes. *Diabetes* 2020 Jun; 69 (Suppl 1):557-P.
3. Cruz B, Gosh A, Zaidi A, Mares A, Alkhateeb H, Nagarajarao H, Ojha C. Therapeutic conundrum: paradoxical systemic, cerebral and pulmonary emboli with an acute bleed. *J Am Coll Cardiol.* 2020 March;75(11) suppl. 1: 2996.
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8. Mishra K, Cu C, Albolbashari M, Guerra J, Didia S, Ojha C, Alkhateeb H. "Slither Into the Heart: Salmonella Endocarditis Following Rattlesnake Meat Ingestion" *J Am Coll Cardiol*. 2020 Mar, 75 (11 Supplement 1) 2968
9. Panchangam S, He M, Ibrahim A, Alkhateeb H. Late bioprosthetic valve thrombosis: is there more to it? *J Am Coll Cardiol*. 2020 March;75(11) suppl. 1: 3422.
- Patel D, Siddiqui T, Ibrahim A, Ojha C, Cruz JB, Dahal R, Hussain S, Patel S, Patel R. Uncustomary metastasis: Lung cancer extension to Left atrium through Pulmonary veins. *JASE Online*, June 2020, Volume 33, Issue 6.