

CURRICULUM VITAE

Melissa Marie Levack, M.D.

Address:

Vanderbilt Medical Center
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Date and Place of Birth:

Hartford, CT

Citizenship:

United States

Medical Licensure:

Tennessee, September 2017
License # 56241

Certification:

American Board of Surgery- 2015
American Board of Thoracic Surgery- board eligible

Education:

Bachelor of Science, *cum laude*, Presidential Scholar, 2001
Major German Language and Literature with Honors
Dartmouth College, Hanover, NH

Doctor of Medicine, *cum laude*, 2007
Emory University School of Medicine, Atlanta, GA

Postgraduate Training:

Massachusetts General Hospital, Boston, MA
Intern, General Surgery, 2007-2008
Junior Resident, General Surgery, 2008-2010

University of Pennsylvania, Gorman Cardiovascular Research Laboratory, Glenolden, PA
Post Doctoral Research Fellowship, 2010-2012

Massachusetts General Hospital, Boston, MA
Senior Resident, General Surgery, 2012-2013
Chief Resident, General Surgery, 2013-2014

Cleveland Clinic Foundation, Cleveland, OH
Thoracic and Cardiac Surgery Resident, 2014-2016
Chief Cardiac Surgery Resident, 2016-2017

Academic Appointments:

Assistant Professor of Cardiac Surgery
Vanderbilt Medical Center, 2017

Clinical Instructor in Surgery- Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, 2017

Honors and Awards:

Society of Thoracic Surgeons, Scientific Poster Finalist, 2016
Abstract entitled: "Outcomes Of A Less Invasive Approach In Proximal Aortic Surgery"
Phoenix, AZ

F. Merlin Bumpus, PhD, Junior Investigator Award in Clinical Research- Finalist, 2015
Abstract entitled: "Outcomes Of A Less Invasive Approach In Proximal Aortic Surgery"
Cleveland, OH

20th Annual ISMRM Magna Cum Laude Merit Award, 2012
Abstract entitled: "Ischemic Mitral Regurgitation Contributes to Alterations in Left Ventricular Three-Dimensional Intracardiac Flow Patterns"
Melbourne, Australia

Williard M. Daggett Scholarship Award for Cardiothoracic Research, 2011
Massachusetts General Hospital
Boston, MA

Robert Linton Research Fellowship, 2010
Massachusetts General Hospital
Boston, MA

Best Poster Award- Colorectal Congress for Benign Disease, 2010
Abstract entitled: "Functional Outcomes Following Sigmoidectomy for Diverticulitis May Be Worse Than Previously Appreciated"
St. Gallan, Switzerland

Wellsford and Mildred Clark Medical Memorial Scholarship- 2006
Emory University School of Medicine
Atlanta, GA

Werner Hoffmeister Prize: For Most Outstanding German Honors Thesis- 2001
Dartmouth College

Hanover, NH

Pray Modern Language Award: For Highest GPA in the German Department-2001
Dartmouth College
Hanover, NH

Well Balanced Man Scholarship: Honorable Mention Recipient-1999
Dartmouth College
Hanover, NH

Leadership Positions and Committees:

Chief Administrative Resident in Thoracic and Cardiac Surgery, (2016-present)
Cleveland Clinic Foundation

Quality Improvement Leader for Resident Education, (2016-Present)
Cleveland Clinic Foundation

Surgical Education Council, (2009-2010, 2012-2014)
Massachusetts General Hospital

Resident Representative for the Residency Review Committee for Surgery, (2008)
Massachusetts General Hospital

Instructor for Problem Based Learning Course, (2007)
Emory University School of Medicine

Director of Medical Student Volunteer Service Day Project, (2007)
Emory University School of Medicine

Vice President for Women in Surgery Interest Group, (2005)
Emory University School of Medicine

Curriculum Committee, (2004)
Emory University School of Medicine

Class Council Secretary, (2003-2004)
Emory University School of Medicine

SHEBA Dance Group, Treasurer (1998-2000), Director (2001)
Dartmouth College

Rassias Foundation German Language Drill Instructor (1999-2000)
Dartmouth College

Professional Societies:

Society of Thoracic Surgeons- Resident Member (2015)

Massachusetts Medical Society- Member (2013)

American Heart Association- Student/Trainee Member (2012)

ISMRRM – Student Member (2011)

Women in Thoracic Surgery- Resident Member (2009)

American College of Surgeons- Student Member (2004), Resident and Associate Society Member (2007)

Association of Women in Surgery- Student Member (2004), Resident Member (2007)

American Medical Student Association- (2004)

Publications:

1. Wax MK, Reh DD, **Levack MM**. Effect of Celecoxib on Fasciocutaneous Flap Survival and Revascularization. Arch Facial Plastic Surgery. 2007, 9: 120-124.
2. **Levack MM**, Pettitt B, Winston D. Carotid artery thrombosis and delayed stroke associated with the use of a shoulder belt in a teenager. Journal of Pediatric Surgery. 2009, 44; e29-33.
3. **Levack M**, Berger D, Sylla P, Rattner D, Bordeianou L. Laparoscopy decreases anastomotic leak rate in sigmoid colectomy for diverticulitis. Arch Surg. 2011 Feb;146(2):207-10.
4. **Levack MM**, Savitt LR, Berger DL, Shellito PC, Hodin RA, Rattner DW, Goldberg SM, Bordeianou L. Sigmoidectomy syndrome? Patients' perspectives on the functional outcomes following surgery for diverticulitis. Dis Colon Rectum. 2012 Jan;55(1):10-7.
5. **Levack MM**, Vergnat M, Jassar AS, Jackson BM, Acker MA, Woo YJ, Gorman RC, Gorman III JH. The Influence of Saddle-Shaped Annuloplasty on Leaflet Curvature in Patients with Ischemic Mitral Regurgitation. European Journal of Cardiothoracic Surgery. Feb 20, 2012.
6. Xu C, Jassar AS, Nathan DP, Eperjesi TJ, Brinster CJ, **Levack MM**, Vergnat M, Gorman RC, Gorman JH 3rd, Jackson BM. Augmented Mitral Valve Leaflet Area Decreases Leaflet Stress: a Finite Element Simulation. Annals of Thoracic Surgery. 2012, Apr; 93(4): 1141-5.
7. Witschey WRT, Zsido GA, Koomalsingh KJ, Kondo N, Minakawa M, Shuto T, McGarvey JR, **Levack MM**, Contijoch F, Pilla JJ, Gorman II JH, Gorman RC. In Vivo Chronic Myocardial Infarction Characterization by Rotating Frame Magnetic Resonance Imaging. J Cardiovasc Magn Reson. 2012 Jun 15;14(1):37.
8. Jassar AS, Minakawa M, Shuto T, Robb JD, Koomalsingh KJ, **Levack MM**, Vergnat M, Eperjesi TJ, Jackson BM, Gorman III JH, Gorman RC. Posterior Leaflet Augmentation in Ischemic Mitral Regurgitation Increases Leaflet Coaptation and Mobility. Ann Thorac Surg. 2012 Jul 11.
9. **Levack MM**, Jassar AS, Shang EK, Vergnat M, Woo YJ, Acker MA, Jackson BM, Gorman JH 3rd, Gorman RC. Three-dimensional echocardiographic analysis of mitral annular dynamics: implication for annuloplasty selection. Circulation. 2012 Sep 11;126(11 Suppl 1):S183-8.

10. **Levack MM**, Vergnat M, Cheung AT, Acker MA, Gorman RC, Gorman JH 3rd. Annuloplasty ring dehiscence in ischemic mitral regurgitation. *Ann Thorac Surg.* 2012 Dec;94(6):2132.
11. **Levack MM**, Vergnat M, Jackson BM, Bavaria JE, Hermann H, Cheung AT, Weiss SJ, Gorman JH III, Gorman RC. The Effect of Standard and Transcatheter Aortic Valve Replacement on Mitral Annular Anatomy. *Ann Thorac Surg.* 2013 Feb;95(2):614-9.
12. **Levack MM**, Bavaria JE, Gorman RC, Gorman JH III, Ryan LP. Rapid aortic arch debranching using the Gore hybrid vascular graft. *Ann Thorac Surg.* 2013 Jun;95(6):e163-5.
13. Ryan LP, **Levack MM**, Gorman JH 3rd, Gorman RC, Milewski RC, Bavaria JE. Quantitative analysis of 3-dimensional aortic annular geometry: implication for aortic root reimplantation. *J Thorac Cardiovasc Surg.* 2014 Mar;147(3):1103-5.
14. Jassar AS, **Levack MM**, Solorzano RD, Pouch AM, Ferrari G, Cheung AT, Ferrari VA, Gorman JH 3rd, Gorman RC, Jackson BM. Feasibility of in vivo human aortic valve modeling using real-time three-dimensional echocardiography. *Ann Thorac Surg.* 2014 Apr;97(4):1255-8.
15. Witschey WR, Pouch AM, McGarvey JR, Ikeuchi K, Contijoch F, **Levack MM**, Yushkevich PA, Sehgal CM, Jackson BM, Gorman RC, Gorman JH 3rd. Three-dimensional ultrasound-derived physical mitral valve modeling. *Ann Thorac Surg.* 2014 Aug;98(2):691-4.
16. **Levack MM**, Madariaga ML, Kaafarani HM. Non-operative successful management of a perforated small bowel diverticulum. *World J Gastroenterol.* 2014 Dec 28;20(48):18477-9.
17. **Levack MM**, King, DR. Left-Sided Paraduodenal Hernia. *Progressive Science.* 2014. Dec;1(7): e:10.
18. Bouma W, Lai EK, **Levack MM**, Shang EK, Pouch AM, Eperjesi TJ, Plappert TJ, Yushkevich PA, Mariani MA, Khabbaz KR, Gleason TG, Feroze M, Acker MA, Woo YJ, Cheung AT, Jackson BM, Gorman JH 3rd, Gorman RC. Preoperative Three-Dimensional Valve Analysis Predicts Recurrent Ischemic Mitral Regurgitation after Mitral Annuloplasty. *Ann Thorac Surg.* 2016 Feb;101(2):567-75; discussion 575.
19. Wijdh-den Hamer IJ, Bouma W, Lai EK, **Levack MM**, Shang EK, Pouch AM, Eperjesi TJ, Plappert TJ, Yushkevich PA, Hung J, Mariani MA, Khabbaz KR, Gleason TG, Mahmood F, Acker MA, Woo YJ, Cheung AT, Gillespie MJ, Jackson BM, Gorman JH 3rd, Gorman RC. The value of preoperative 3-dimensional over 2-dimensional valve analysis in predicting recurrent ischemic mitral regurgitation after mitral annuloplasty. *J Thorac Cardiovasc Surg.* 2016 Sep;152(3):847-59.
20. **Levack MM**, Aftab M, Roselli EE, Johnston DR, Soltész EG, Gillinov AM, Pettersson GB, Griffin B, Grimm R, Hammer DF, Al Kindi AH, Albacker TB, Sepulveda E, Thuita L, Blackstone EH, Sabik III JF, Svensson LG. Outcomes of a Less-Invasive Approach for Proximal Aortic Operations. *Ann Thorac Surg.* 2016 Oct 24. pii: S0003-4975(16)30686-5. doi: 10.1016/j.athoracsur.2016.06.008. [Epub ahead of print]
21. **Levack MM**, Keshavamurthy S, Schoenhagen P, Johnston DR. Management of a duplicated inferior vena cava in thoracoabdominal aortic aneurysm repair. *J Thorac Cardiovasc Surg.* 2016 Nov 3. pii: S0022-5223(16)31431-3.

Presentations and Abstracts:

1. Wertheim J, **Levack M**, Farrell ML, Moore S, Ko D. Prior Cardiac History of MI, Cardiac Surgery or Percutaneous Revascularization and Echocardiography Measurements Do Not Predict Kidney Allograft Failure or Mortality in the Advanced Age Patient. ASTS 8th Annual State of the Art Winter Symposium, January 2008, Marco Island, FL
2. **Levack MM**, Savitt LR, Berger DL, Shellito PC, Hodin RA, Rattner DW, Goldberg SM, Bordeianou L. Functional Outcomes Following Sigmoidectomy For Diverticulitis May Be Worse Than Previously Appreciated. ASCRS Annual Meeting, May 2009, Hollywood, FL
3. **Levack M**, Berger D, Sylla P, Rattner D, Bordeianou L. Laparoscopic surgery decreases anastomotic leak rate in sigmoid colectomy for diverticulitis. Digestive Disease Weekly, June 2009, Chicago, IL
4. **Levack M**, Berger D, Sylla P, Rattner D, Bordeianou L. Laparoscopic surgery decreases anastomotic leak rate in sigmoid colectomy for diverticulitis. Massachusetts Chapter of the ACS, December 2009, Boston, MA
5. **Levack MM**, Savitt LR, Berger DL, Shellito PC, Hodin RA, Rattner DW, Goldberg SM, Bordeianou L. Functional Outcomes Following Sigmoidectomy For Diverticulitis May Be Worse Than Previously Appreciated. Massachusetts Chapter of the ACS, December 2009, Boston, MA
6. **Levack MM**, Savitt LR, Berger DL, Shellito PC, Hodin RA, Rattner DW, Goldberg SM, Bordeianou L. Functional Outcomes Following Sigmoidectomy For Diverticulitis May Be Worse Than Previously Appreciated. Colorectal Congress for Benign Disease, December 2009, St Gallen, Switzerland
7. **Levack MM**, Savitt LR, Berger DL, Shellito PC, Hodin RA, Rattner DW, Goldberg SM, Bordeianou L. Functional Outcomes Following Sigmoidectomy For Diverticulitis May Be Worse Than Previously Appreciated. International Society University Colorectal Surgeons, March 2010, Seoul, Korea
8. **Levack M**, Berger D, Sylla P, Rattner D, Bordeianou L. Laparoscopic surgery decreases anastomotic leak rate in sigmoid colectomy for diverticulitis. New England Society of Colon and Rectal Surgeons, June 2010, Westbrook, CT
9. Jassar AS, Ryan LP, Jackson BM, Nathan DP, **Levack M**, Eperjesi TE, St. John-Sutton MG, Ferrari VA, Cheung AT, Weiss SJ, Bavaria JE, Gorman III JH, Gorman RC. Quantitative Aortic Root Modeling: Towards 3D assessment of the Aortic Valve. Society of Heart Valve Disease, June 2011, Barcelona, Spain
10. Vergnat M, **Levack MM**, Jassar AS, Jackson BM, Acker MA, Woo YJ, Gorman RC, Gorman III JH. The Influence of Saddle-Shaped Annuloplasty on Leaflet Curvature in Patients with Ischemic Mitral Regurgitation. European Association for Cardiothoracic Surgery, October 2011, Lisbon, Portugal
11. **Levack MM**, Ryan LP, Nathan DP, Jassar AS, Cheung AT, Weiss SJ, Gorman JH III, Gorman RC, Jackson BM. Age Related Decrease in Ascending Aortic Strain Using a Novel Application of Speckle-Tracking Algorithms Pennsylvania Association of Thoracic Surgeons, October 2011, Washington, DC

12. **Levack MM**, Jassar AS, Jackson BM, Eperjesi TJ, Weiss SJ, Cheung AT, Kukafka JD, Gorman III JH, Gorman RC. Decreased Annular Dynamic Motion in Ischemic Mitral Regurgitation: Implication for Annuloplasty Selection. Pennsylvania Association of Thoracic Surgeons, October 2011, Washington, DC
13. Jassar AS, Minakawa M, Shuto T, Robb JD, Koomalsingh KJ, **Levack MM**, Eperjesi TJ, Jackson BM, Gorman III JH, Gorman RC. A Technique to Increase Leaflet Coaptation without Undersized Annuloplasty in Ischemic Mitral Regurgitation. Southern Thoracic Surgical Association , November 2011, San Antonio, TX
14. Jassar AS, **Levack MM**, Jackson BM, Eperjesi TJ, Pouch AM, Xu C, Nathan DP, Cheung AT, Weiss SJ, Vernick WJ, Acker MA, Gorman III JH, Gorman RC. Echocardiographic Analysis of Degenerative Mitral Valve: Annular Dynamics are Deranged in Myxomatous Degeneration. American Heart Association, November, 2011, Orlando, FL
15. **Levack MM**, Jassar AS, Jackson BM, Eperjesi TJ, Weiss SJ, Cheung AT, Kukafka JD, Gorman III JH, Gorman RC. Decreased Annular Dynamic Motion in Ischemic Mitral Regurgitation: Implication for Annuloplasty Selection. American Heart Association, November, 2011, Orlando, FL
16. **Levack MM**, Witschey WR, McGarvey JR, Kondo N, Zsido II GA, Gorman III JH, Pilla JJ, Gorman RC. Mitral Leaflet Dynamics in Ischemic Mitral Regurgitation Using High Resolution MRI. SCMR/ISMRM Workshop, February 2012, Orlando, FL
17. Witschey WR, Contijoch F, Pilla JJ, Dougherty LH, Song HK, **Levack M**, McGarvey J, Kondo N, Zsido II GA, Gorman III JH, Gorman RC. Real Time Measurement of Cardiac Pressure Volume Relationships. SCMR/ISMRM Workshop, February 2012, Orlando, FL
18. Jassar AS, **Levack MM**, Eperjesi TJ, Weiss SJ, Cheung AT, Vernick WJ, Gorman III JH, Gorman RC, Jackson BM. Valve Morphology from 3D-Echocardiography. American College of Cardiology, March 2012, Chicago, IL
19. Jassar AS, **Levack MM**, Eperjesi TJ, Weiss SJ, Cheung AT, Vernick WJ, Gorman III JH, Jackson BM, Gorman RC. Manual vs. Automated Quantitative Assessment of Mitral Valve Morphology from 3D-Echocardiography. American College of Cardiology, March 2012, Chicago, IL
20. **Levack MM**, Jassar AS, Ryan LP, Jackson BM, Keane MG, St. John-Sutton MG, Gorman III JH, Gorman RC. Quantitative Three-Dimensional Analysis of Bicuspid Aortic Valves: A Single Modality Approach for Characterization of Valvular and Proximal Aortic Pathology. 4th Annual Joint Scientific Session of the Heart Valve Society of America and Society for Heart Valve Disease, April 2012, New York, NY.
21. **Levack MM**, Witschey WR, McGarvey JR, Kondo N, Zsido III GA, Barker A, Markl M, Gorman III JH, Pilla JJ, Gorman RC. Ischemic Mitral Regurgitation Contributes to Alterations in Three-Dimensional Intracardiac Flow Patterns. 4th Annual Joint Scientific Session of the Heart Valve Society of America and Society for Heart Valve Disease, April 2012, New York, NY.
22. Jassar AS, **Levack MM**, Eperjesi TJ, Weiss SJ, Cheung AT, Vernick WJ, Gorman III JH, Jackson BM, Gorman RC. Manual vs. Automated Quantitative Assessment of Mitral Valve Morphology from 3D-Echocardiography. American College of Cardiology, April 2012, Chicago, IL

23. **Levack MM**, Eperjesi TJ, Weiss SJ, Gorman III JH, Bavaria JE, Gorman RC, Ryan LP. Three-Dimensional Echocardiography as a Predictive Instrument for Repairability of Regurgitant Bileaflet Aortic Valves. AATS Aortic Symposium, April 2012, San Francisco, CA.
24. **Levack MM**, Savitt LR, Berger DL, Shellito PC, Hodin RA, Rattner DW, Goldberg SM, Bordeianou L. Sigmoidectomy syndrome? Patients' perspectives on the functional outcomes following surgery for diverticulitis. Harvard Resident Research Day, May 2012, Boston, MA
25. Mc Garvey J, Witschey WR, Koomalsingh K, Kondo N, Takebe M, Zsido III GA, **Levack M**, Dillard C, Lau K, Xu C, Contijoch F, Barker A, Markl M, Gorman III JH, Gorman RC, Pilla JJ. In Vivo Four-Dimensional Flow Analysis of Mechanically Assisted Ischemic Cardiomyopathy. ISMRM Annual Meeting, May 2012, Melbourne Australia.
26. Contijoch F, Witschey WR, **Levack M**, McGarvey JM, Zsido III GA, Takebe M, Kondo N, Dillard C, Lau K, Song HK, Dougherty L, Gorman III JH, Gorman RC, Pilla JJ. Estimation of Cardiac Elastance and Compliance from Pressure-Volume Tracing During Inflow Occlusion Using Real Time Cardiac Imaging Technique. ISMRM Annual Meeting, May 2012, Melbourne Australia.
27. **Levack MM**, Witschey WR, McGarvey JR, Koomalsingh KK, Zsido III GA, Kondo N, Takebe M, Xu C, Contijoch F, Barker A, Markl M, Gorman III JH, Pilla JJ, Gorman RC. Ischemic Mitral Regurgitation Contributes to Alterations in Left Ventricular Three-Dimensional Intracardiac Flow Patterns. ISMRM Annual Meeting, May 2012, Melbourne Australia.
28. **Levack MM**, Witschey WR, McGarvey JR, Koomalsingh KK, Zsido III GA, Kondo N, Takebe M, Xu C, Contijoch F, Barker A, Markl M, Gorman III JH, Pilla JJ, Gorman RC. Ischemic Mitral Regurgitation Contributes to Alterations in Left Ventricular Three-Dimensional Intracardiac Flow Patterns. ITMAT Biomedical Imaging Retreat, June 2012, Philadelphia, PA
29. Shang EK, Pouch AM, Xu C, **Levack MM**, Gorman RC, Barker CF, Sehgal CM, Jackson BM. Carotid Artery Segmentation and Wall Thickness Measurement Using Computed Tomography Angiography. SVS, June 2012, Washington DC
30. Govindarajan V, Udaykumar HS, Vigmostad SC, **Levack MM**, Gorman III JH, Jackson BM, Chandran KB, Gorman RC. Fluid Structural Interaction of A Patient Specific Congenital Bicuspid Aortic Valve. American Society of Mechanical Engineers Summer Bioengineering Conference, June 2012, Fajardo, PR
31. **Levack MM**, Jassar AS, Ryan LP, Jackson BM, Keane MG, St. John-Sutton MG, Gorman III JH, Gorman RC. Quantitative Three-Dimensional Analysis of Bicuspid Aortic Valves: A Single Modality Approach for Characterization of Valvular and Proximal Aortic Pathology. American College of Surgeons, Surgical Forum, September 2012, Chicago IL
32. **Levack MM**, Witschey WR, McGarvey JR, Kondo N, Zsido III GA, Barker A, Markl M, Gorman III JH, Pilla JJ, Gorman RC. Alterations in Intracardiac Flow Patterns Affect Mitral Leaflet Dynamics in Ischemic Mitral Regurgitation. American College of Surgeons, Surgical Forum, September 2012, Chicago IL
33. Contijoch F, Witschey WR, **Levack MM**, McGarvey JR, Ferrari VA, Kondo N, Takebe M, Zsido GA, Dillard C, Lau K, Pilla JJ, Gorman III JH, Gorman RC. Measurement of Load Independent Indices of Cardiac Function Using Real Time MRI During Inflow Occlusion. BMES, October 2012, Atlanta GA

34. Contijoch F, Witschey WR, **Levack MM**, McGarvey JR, Ferrari VA, Kondo N, Takebe M, Zsido GA, Dillard C, Lau K, Pilla JJ, Gorman III JH, Gorman RC. Regional Cardiac Strain Estimates via CMR During Transient Preload Reduction. BMES, October 2012, Atlanta GA
35. **Levack MM**, McCarthy FH, Takebe M, Cheung AC, Acker MA, Gorman JH III, Gorman RC, Jackson BM. Preoperative Three-Dimensional Echocardiography Predicts Repair Failure In Ischemic Mitral Regurgitation. American Heart Association. November 2012, Los Angeles CA.
36. Sprinkle SR, **Levack MM**, Chao J, Keane MG, Sutton M St. J, Gorman JH, Gorman RC, Jackson, BM. Significant Decrease in Ascending Aortic Strain In Patients With Bicuspid Aortic Valve Patients As Detected by Speckle-Tracking Algorithms. American Heart Association. November 2012, Los Angeles, CA.
37. **Levack MM**, McCarthy FH, Takebe M, Cheung AC, Acker MA, Gorman JH III, Gorman RC, Jackson BM. Preoperative Three-Dimensional Echocardiography Predicts Repair Failure In Ischemic Mitral Regurgitation. AATS Mitral Conclave. May 2013, New York, NY.
38. **Levack MM**, Soltesz EH. Heart and Vascular Institute Tall Rounds. Peri-operative Management of Patients With Severe Heart Failure, Low EF, and Severe Valvular Heart Disease. August 2015. Cleveland, OH
39. **Levack MM**, Aftab M, Roselli, EE, Johnston DJ, Soltesz EH, Gillinov AM, Pettersson G, Griffin B, Grimm R, Hammer D, Blackstone EG, Svensson LG. Outcomes of a Less Invasive Approach in Proximal Aortic Surgery. Cleveland Clinic Research Day. September 2015, Cleveland, OH.
40. **Levack MM**, Aftab M, Roselli, EE, Johnston DJ, Soltesz EH, Gillinov AM, Pettersson G, Griffin B, Grimm R, Hammer D, Blackstone EG, Svensson LG. Outcomes of a Less Invasive Approach in Proximal Aortic Surgery. Society of Thoracic Surgeons. January 2016, Phoenix, AZ.
41. **Levack MM**, Idrees JJ, Zhu Y, Roselli, EE. Adjunctive Balloon Fracture Fenestration Plus TEVAR for Chronic Aortic Dissection. AATS Aortic Symposium. May 2016, New York, NY.
42. **Levack MM**, Idrees JJ, Zhu Y, Roselli, EE. Adjunctive Balloon Fracture Fenestration Plus TEVAR for Chronic Aortic Dissection. Cleveland Clinic Research Day. September 2016, Cleveland, OH.
43. **Levack MM**, Roselli EE. Ruptured Post Coarctation Aneurysm with Hypoplastic Arch. STS TEVAR Symposium. December 2016, Chicago, IL.
44. Svensson LG, **Levack, MM**. Difficult Access Cases: TAVR plus TEVAR. STS TEVAR Symposium. December 2016, Chicago, IL.
45. **Levack MM**, Pettersson G. Heart and Vascular Institute Tall Rounds. Interdepartmental Valve Conference Case Presentation. April 2017. Cleveland, OH.

Computer and Video Contributions:

Thoracic Surgery Residents Association (TSRA), Adult Cardiac Surgery Podcast, Aortic Root Aneurysms, Interview with Dr. Lars Svensson, 2016

Thoracic Surgery Residents Association (TSRA), Adult Cardiac Surgery Podcast, Aortic Arch Aneurysms, Interview with Dr. Eric Roselli, 2016

Educational Courses:

TSRA Boot Camp, September 2014

Edwards Lifesciences Cardiac Fellows Program, November 2014

CryoLife Aortic Valve and Root Boot Camp IV, October 2016