

**Justin Michael Broyles, M.D.**

CURRICULUM VITAE

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**Home Address:**

104 Manet Rd  
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**Office Address:**

Brigham and Women's Hospital  
Division of Plastic Surgery  
45 Francis St.  
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Faulkner Hospital  
Division of Plastic Surgery  
1153 Centre St.  
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02130

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**Languages:**

English

**Date of Birth:**

March 22, 1985

**Place of Birth:**

Oak Harbor, Washington, USA

## **Education**

- Harvard Business School/Harvard School of Public Health. (8/2019-Current)  
Masters in Healthcare Management
- The Johns Hopkins Hospital (7/2017-7/2018)  
Administrative Chief Plastic Surgery Resident.  
Chairman: Dr. W.P Andy Lee, MD, FACS.  
Baltimore, MD.
- The Johns Hopkins Hospital (7/2014-7/2018)  
Integrated Plastic Surgery Resident.  
Chairman: Dr. W.P Andy Lee, MD, FACS.  
Baltimore, MD.
- The Johns Hopkins Hospital (7/2013-7/2014)  
Post Doctoral Research Fellow.  
Vascularized Composite Tissue Allotransplantation Laboratory.  
PI: Dr. Gerald Brandacher, MD, Dr. W.P. Andy Lee, MD.  
Baltimore, MD.
- The Johns Hopkins Hospital (7/2012-7/2013)  
Integrated Plastic Surgery Resident.  
Chairman: Dr. W.P Andy Lee, MD, FACS.  
Baltimore, MD.
- The Johns Hopkins Hospital (7/2011-7/2012)  
General Surgery Resident.  
Chairman: Julie Freischlag, MD, FACS.  
Baltimore, MD.
- The University of Texas Health Science Center at Houston (8/2007-5/2011)  
Doctor of Medicine.  
Houston, TX.
- The University of Texas at Austin (5/2003-5/2007)  
College of Natural Sciences.  
BS Human Biology, *With Honors Distinction in Research*.  
Research Director: R. Adron Harris PhD.  
Thesis Title: Effects of a Gating Mutation in the TM2-TM3 Linker Region of the Glycine Receptor Alpha-1 Subunit on Allosteric Modulation. Austin, TX.

## **Plastic Surgery Fellowships**

The University of Texas M.D. Anderson Cancer Center (7/2018-7/2019)  
Clinical Specialist/Microsurgery Fellow  
Chairman: Charles Butler, MD, FACS

## **Hospital Affiliations**

Harvard Medical School (9/2019-Current)  
*Assistant Professor of Surgery*

Brigham and Women's Hospital (9/2019-Current)  
*Associate Surgeon*

Brigham and Women's Faulkner Hospital (9/2019-Current)  
*Associate Surgeon*

MD Anderson Cancer Center (7/2018-7/2019)  
*Clinical Specialist*

The Johns Hopkins Hospital (6/2011-7/2018)  
*Resident Physician*

The Johns Hopkins Bayview Hospital (6/2011-7/2018)  
*Resident Physician*

The Johns Hopkins Suburban Hospital (8/2016-7/2018)  
*Resident Physician*

Union Memorial Hospital (6/2011-7/2018)  
*Resident Physician*

Mercy Medical Center (6/2013-7/2018)  
*Staff Physician*

Sinai Hospital of Baltimore (6/2013-7/2018)  
*Staff Physician*

The University of Maryland Medical Center (6/2011-7/2018)  
*Resident Physician*

The University of Maryland Shock Trauma Center (6/2011-7/2018)  
*Resident Physician*

## **Certifications**

American Board of Plastic Surgery: 2021  
Advanced Cardiac Life Support: 2011, 2018  
National Board of Medical Examiners: 2012  
Advanced Trauma Life Support: 2012

## **Licensure**

Massachusetts Medical License: 279649. Expires:3/22/2023  
Texas Medical License: R6354. Issue Date: 3/16/18. Expiration Date: 5/31/2020  
Maryland Medical License: D0075806, Expires 9/1/2014.  
Maryland Controlled Dangerous Substances: M78615, Expires 3/31/15.  
DEA Controlled Substances License: FB3859634, Expires 7/31/2016.  
DEA License: FB7505728. Expiration Date: 7/31/2021  
NPI License: 1295034940.

## **United States Medical Licensing Examinations**

Step 1: Passed. 9/2009. Score: 264.  
Step 2: Clinical Skills. Passed. 5/2011.  
Step 2: Clinical Knowledge. Passed. 5/2011. Score: 251.  
Step 3: Passed. 4/2012. Score: 239.

## **Professional Societies**

Massachusetts Society of Plastic Surgeons. 2019-present.  
Texas Medical Association. 2007-2011.  
American Medical Association. 2007-present.  
American Society of Plastic Surgeons. 2019-present.  
American Society of Aesthetic Plastic Surgery. 2013-present.  
Plastic Surgery Research Council. 2013-present.  
PlastyPAC: 2018-present  
American Council of Academic Plastic Surgeons. 2020-present.

## **Honors and Awards**

The University of Texas at Austin. Austin, TX

Dean's List: 2003-2007.

UT Student Government: Natural Sciences Representative. 2004, 2005.

Who's Who in American Colleges: 2003-2004.

Parlin Foundation Educational Merit Scholarship 2004.

Parlin Foundation Educational Merit Scholarship 2005.

Texas Cowboys: 2005-2007.

Sigma Xi Scientific Research Society: 2007.

The University of Texas Medical School at Houston. Houston, TX

Outstanding Student Award: Pathology: 2011.

Merek Outstanding Graduate Award: 2011.

The Johns Hopkins Hospital. Baltimore, MD

The Johns Hopkins Hospital Shining Star Excellence Award: 2011.

The Johns Hopkins Hospital Shining Star Excellence Award: 2012.

The Johns Hopkins Hospital Shining Star Excellence Award: 2013.

The Johns Hopkins Hospital Shining Star Excellence Award: 2014.

The Johns Hopkins Research Day. Best Clinical Paper Award: 2014.

American Association of Plastic Surgeons: Best Resident Presentation: 2015.

Operation Smile: Traveling Fellowship Award: 2016.

Administrative Chief Resident: 2017-2018.

**Leadership Positions**

Brigham and Women's Hospital. Boston, MA.

Central Breast Oncology/Plastic Surgery Coordinator.

2022-Current.

Harvard Medical School. Boston, MA.

Medical Student Director, Plastic Surgery Clerkship.

2019-Current.

Harvard Medical School. Boston, MA.

Sub-Internship Director, Plastic Surgery.

2019-Current.

Brigham and Women's Hospital. Boston, MA.

Plastic Surgery Residency Site Director.

2019-Current.

Brigham and Women's Hospital. Boston, MA.

Abdominal Wall Transplant Director.

2020-Current.

## **Current Committee Appointment and Involvement**

### Harvard Medical School. Boston, MA.

Medical Student Mock Interview: Surgical Course Liaison.  
2019-Current.

### Harvard Medical School. Boston, MA.

Executive Committee: Mass General Brigham Plastic Surgery  
2020-Current.

### Harvard Medical School. Boston, MA.

Grand Rounds Content Coordinator: Plastic Surgery  
2020-Current.

### Susan G. Komen Foundation. Boston, MA.

Advocate in Science. Member. 2020-Current.

### ACP Investors. Austin, TX.

Medical Device Consultant: 2014-Current.

### Gerson Lehrman Group. Austin, TX.

Council Member. Medical Devices: 2014-Current.

### Plastic and Reconstructive Surgery Journal

Resident Ambassador: 2017-2019.

### Plastic Surgery Research Council

Member, Technology Committee: 2018-Current.

### Calisto Concierge, PC

Boston, MA, USA

Co-Founder, Chief Medical Officer: 2020-Current.

### American Society of Plastic Surgeons

Member, Legislative Advocacy Committee: 2020-Current.

Member, Annual Meeting Educational Program Committee: 2020-Current.

### Johns Hopkins Hospital Department of Plastic Surgery

Oral Board Examiner: 2021-Current.

### American Council of Academic Plastic Surgeons

Mentorship Committee: 2021-Current.

### Plastic Surgery Foundation

Grant Study Section. 2021-Current.

## **Past Committee Appointment and Involvement**

### The Hospice Cup. Annapolis, MD.

Member, Board of Directors: 2016-2019.

### The University of Texas at Austin. Austin, TX.

Pre-Med Society: Recruitment Affairs: 2004.

Texas Cowboys: Newman President: 2006.

Delta Tau Delta: Social Committee: 2005.

Delta Tau Delta: Philanthropic Committee: 2006.

### The University of Texas Health Science Center at Houston. Houston, TX.

Admissions Committee: 2008.

Surgical Society: Speaker's Committee: 2008.

How to ACE the USMLE: Director: 2010, 2011.

### The Plastic Surgery Research Council

Mentorship Committee: Resident Representative: 2017-2018.

### The Johns Hopkins Hospital. Baltimore, MD.

Johns Hopkins Hospital Plastic Surgery Education Committee: 2011-2018.

Business of Medicine: Event Organizer. 2015.

Plastic Surgery Interview Social Planning Committee: 2012-2018.

## **Civic Organizations**

Hospice Cup: Voting Member. Annapolis, MD.

St. Anne's Church: Member. Annapolis, MD.

Baltimore Museum of Art: Member. Baltimore, MD.

Creative Alliance Baltimore, Society for the Arts: Member. Baltimore, MD.

Young Friends of The Public Garden: Member. Boston, MA.

Susan G. Komen Foundation: Member. Boston, MA.

## **Current Research Grant Support**

### Plastic Surgery Foundation (PSF): National Endowment Grant

Role: PI

Project Title: Value Based Healthcare in Two-Stage Implant Breast Reconstruction

### Agency for Healthcare Research and Quality (AHRQ):

Role: Consultant

Project Title: Breast Reconstruction After Mastectomy

## **Completed Research Grant Support**

### Acellity Educational Grant:

Role: Principal Investigator.

Project Title: The Learning Portfolio: Online Education for Plastic Surgeons.

Amount: \$15,000.

## **Editorial Positions**

### Archives in Breast Surgery

Reviewer. 2020-Current.

### Breast Cancer Research and Treatment

Reviewer. 2020-Current.

### Case Reports in Plastic Surgery and Hand Surgery

Reviewer. 2019-Current.

### Aesthetic Surgery Journal

Reviewer. 2014-Current.

### Annals of Plastic Surgery

Reviewer. 2013-Current.

### Plastic and Reconstructive Surgery

Reviewer. 2016-Current.

### Journal of Anaplastology

Founding Editorial Board. 2013.

Reviewer. 2013-Current.

### International Journal of Burns and Trauma

Reviewer. 2013-Current.

### Annals of Surgery

Reviewer. 2020-Current.

## **Peer Reviewed Publications**

1. Saldanha IJ, **Broyles JM**, Adam GP, Cao W, Bhuma MR, Mehta S, Pusic AL, Dominici LS, Balk EM. Implant-based breast reconstruction after mastectomy for breast cancer: A systematic review and meta-analysis. *Plastic and Reconstructive Surgery Global Open*. (In press)
2. **Broyles JM**, Balk EM, Adam GP, Cao W, Bhuma MR, Mehta S, Dominici LS, Pusic AL, Saldanha IJ. Implant-Based Breast Reconstruction versus autologous reconstruction after mastectomy for breast cancer: A systematic review and meta-analysis. *Plastic and Reconstructive Surgery Global Open*. (In press)

3. Saldanha IJ, **Broyles JM**, Adam GP, Cao W, Bhuma MR, Mehta S, Pusic AL, Dominici LS, Balk EM. Autologous breast reconstruction after mastectomy for breast cancer: A systematic review. *Plastic and Reconstructive Surgery Global Open*. (In press)
4. Hyland CJ, Irwin TJ, Rinkinen JR, **Broyles JM**. Deep Inferior Epigastric Artery Perforator Flap Breast Reconstruction in the Setting of Cryolipolysis. *Plast Reconstr Surg Glob Open*. 2021 Dec 7;9(12):e3976. PMID: 35070608
5. Saldanha IJ, Cao W, **Broyles JM**, Adam GP, Bhuma MR, Mehta S, Dominici LS, Pusic AL, Balk EM. Breast Reconstruction After Mastectomy: A Systematic Review and Meta-Analysis [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2021 Jul. Report No.: 21-EHC027. PMID: 34383395.
6. Nagra NS, Tsangaris E, Means J, Hassett MJ, Dominici LS, Bellon JR, **Broyles J**, Kaplan RS, Feeley TW, Pusic AL. ASO Visual Abstract: Time-Driven Activity-Based Costing (TDABC) in Breast Cancer Care Delivery. *Ann Surg Oncol*. 2021 Aug 10. PMID: 34378094.
7. Nagra NS, Tsangaris E, Means J, Hassett MJ, Dominici LS, Bellon JR, **Broyles J**, Kaplan RS, Feeley TW, Pusic AL. Time-Driven Activity-Based Costing in Breast Cancer Care Delivery. *Ann Surg Oncol*. 2021 Aug 10. PMID: 34374913.
8. Arnautovic A, Olafsson S, Wong J, Agarwal S, **Broyles JM**. Breast Reconstruction and Post Mastectomy Radiotherapy: A Primer for Members of a Multidisciplinary Team. *Arch Breast Cancer*. 2021 Apr. 15;80-7.
9. **JM Broyles**, EC Liao, J Kim, J Heistein, M Sisco, N Karp, FH Lau, YS Chun. Acellular Dermal Matrix–Associated Complications in Implant-Based Breast Reconstruction: A Multicenter, Prospective, Randomized Controlled Clinical Trial Comparing Two Human Tissues, *Plastic and Reconstructive Surgery*: April 20, 2021
10. Arnautovic A, Olafsson S, Wong JS, Agarwal S, **Broyles JM**. Optimizing Breast Reconstruction through Integration of Plastic Surgery and Radiation Oncology. *Plast Reconstr Surg Glob Open*. 2021 May 6;9(5):e3577.
11. Tsangaris E, Pusic AL, Kaur MN, Voineskos S, Bordeleau L, Zhong T, Vidya R, **Broyles JM**, Klassen AF. Development and Psychometric Validation of the BREAST-Q Sensation Module for Women Undergoing Post-Mastectomy Breast Reconstruction. *Ann Surg Oncol*(2021).
12. Kauke M, Panayi AC, Safi AF, Haug V, Perry B, Kollar B, Nizzi MC, **Broyles JM**, Annino DJ, Marty FM, Sinha I, Lian CG, Murphy GF, Chandraker A, Pomahac B.

(2021), Full Facial Retransplantation in a Female Patient – Technical, Immunologic and Clinical Considerations. *Am J Transplant*.

13. Tsangaris E, Pusic AL, Kaur MN, Voineskos S, Bordeleau L, Zhong T, Vidya R, **Broyles JM**, Klassen AF. Development and Psychometric Validation of the Breast-Q Animation Deformity Scale for Women Undergoing Implant-Based Breast Reconstruction After Mastectomy. *Annals of Surg Onc*. 2021. 1-11.
14. Serebrakian AT, Ortiz R, Christensen JM, Pickrell BB, Irwin TJ, Karinja SJ, **Broyles JM**, Liao EC, Eberlin KR, Helliwell LA. Webinar during COVID-19 Improves Knowledge of Changes to the Plastic Surgery Residency Application Process. *Plast Reconstr Surg Glob Open*. 2020 Sep 29;8(10):e3247. PMID: 33173711; PMCID: PMC7647617.
15. **Broyles JM**, Smith JM, Schaverien M. Response to comment on "The effect of sarcopenia on perioperative complications in abdominally based free-flap breast reconstruction. *J Surg Oncol*. 2020 Dec;122(8):1829. doi: 10.1002/jso.26231. Epub 2020 Sep 21. PMID: 32959383.
16. **Broyles JM**, Smith JM, Phillips BT, Mericli AF, Selber JC, Largo RD, Baumann DP, Liu J, Schaverien MV. The effect of sarcopenia on perioperative complications in abdominally based free-flap breast reconstruction. *J Surg Oncol*. 2020 Jul 16. doi: 10.1002/jso.26120. Epub ahead of print.
17. **Broyles JM**, Smith JM, Phillips BT, Mericli AF, Selber JC, Largo RD, Baumann DP, Liu J, Schaverien MV. The effect of sarcopenia on perioperative complications in abdominally based free-flap breast reconstruction. *J Surg Oncol*. 2020 Jul 16. doi: 10.1002/jso.26120. Epub ahead of print. PMID: 32673425. PMID: 32673425.
18. Sarhane KA, Tuffaha SH, Ibrahim Z, Cashman CR, Krick K, Martin R, **Broyles JM**, Cooney DS, Lee WPA, Mi R, Mao HQ, Hoke A, Brandacher G. Glial Cell Line-Derived Neurotrophic Factor and Chondroitinase Promote Axonal Regeneration in a Chronic Denervation Model. *Neurotherapeutics*. 2019 May 30. PMID: 31148054
19. Sarhane KA, Ibrahim Z, Martin R, Krick K, Cashman CR, Tuffaha SH, **Broyles JM**, Prasad N, Yao ZC, Cooney DS, Mi R, Lee WA, Hopk A, Mao HQ, Brandacher G. Macroporous nanofiber wraps promote axonal regeneration and functional recovery in nerve repair by limiting fibrosis. *Acta Biomater*. 2019 Feb 23 1742-7061(19) PMID: 30807875
20. **Broyles JM**, Khavanin N, Walia GS, Ostrander BT, Bello R, Carl HM, Pederira RA, Sacks JM. Increased incidence of Symptomatic Venous Thromboembolism Following Pedicled Lower Extremity Flap Harvest for Abdominal and Perineal

Reconstruction in Patients Receiving Mechanical and Chemoprophylaxis: A Case for Heightened Awareness. *Plast Reconstr Surg.* 2019. Apr;143(4):840-47. PMID:30921148

21. Tuffaha SH, Quan A, Hashemi S, Parikh P, O'Brien-Coon DM, **Broyles JM**, Dellon AL, Lifchez SL Selective Thumb Carpometacarpal Joint Denervation for Painful Arthritis: Clinical Outcomes and Cadaveric Study. *J Hand Surg. Am.* 2018 June 19. PMID: 29934083
22. Smith JM, **Broyles JM**, Guo Y, Tuffaha SH, Mathes D, Sacks JM. Human Acellular Dermal Matrix Increases Complication Profile in Implant Based Breast Reconstruction When Compared with Submuscular Along: Updated Meta-Analysis Incorporating New Products. *J Plast Reconstr Aesth Surg.* 2018. Nov;71(11):1547-1556. PMID: 30093286
23. **Broyles JM**, Schuenke M, Patel S, Vail C, Broyles HV, Dellon AL. Defining the Anatomy of the Tendinous Intersections of the Rectus Abdominis Muscle and Their Clinical Implications in Functional Muscle Neurotization. *Ann Plast Surg.* 2018. Jan;80(1): 50-53. PMID: 28671887
24. Devulapalli C, **Broyles JM**, Bello R, Elgendy T, Yalanis G, Redett R, Rosson GD, Sacks JM. Soft Tissue Reconstruction of Large Spine Defects: A 12-year Institutional Experience. *Plast Reconstr Surg.* 2017 Oct;140(4):806-814. PMID: 28617741
25. **Broyles JM**, Smith M, Coon D, Bonawitz SC. Assessment of Nursing Deficiencies in the Postoperative Care of Microsurgical Patients. *J Reconstr Microsurg.* 2016 Oct;32(8):615-24. PMID: 27351935
26. Coon D, Calotta NA, **Broyles JM**, Sacks JM. Use of Biological Tissue Matrix in Postneurosurgical Posterior Trunk Reconstruction is Associated with Higher Wound Complication Rates. *Plast Reconstr Surg.* 2016 Jul;138(1):104e-10e. PMID: 27348672
27. **Broyles JM**, Tuffaha SH, Williams EH, Glickman L, George TA, Dellon AL. Pain after breast surgery: Etiology, diagnosis, and definitive management. *Microsurgery.* 2016 Oct;36(7):535-538. PMID: 27043853
28. **Broyles JM**, Tuffaha SH, Dellon AL, Brandacher G, Lee WP, Sacks JM. Response to Commentary on "Reconstruction of Large Abdominal Wall Defects Using Neurotized Vascular Composite Allografts." *Plast Reconstr Surg.* 2016

Jul;138(1):159e-61e.

PMID: 27002563

29. Tuffaha SH, Budihardjo JD, Sarhane KA, Kusheim M, Song D, **Broyles JM**, Salvatori R, Means KR Jr, Higgins JP, Shores J, Cooney D, Hoke A, Lee WP, Brandacher G. Growth Hormone Therapy Accelerates Axonal Regeneration, Promotes Motor Reinnervation, and Reduces Muscle Atrophy Following Peripheral Nerve Injury. *Plast Reconstr Surg*. 2016 Jun;137(6):1771-80. PMID: 26890510
30. Zelken JA, Hong JP, **Broyles JM**, Hsiao YC. Preventing Elevated Radix Deformity in Asian Rhinoplasty with a Chimeric Dorsal-Glabellar Construct. *Aesthet Surg J*. 2016 Mar 36(3):287-96. PMID: 26879296
31. **Broyles JM**, Sarhane KA, Tuffaha SH, Cooney DS, Lee WP, Brandacher G, Sacks JM. Reconstruction of Large Abdominal Wall Defects Using Neurotized Vascular Composite Allografts. *Plast Reconstr Surg*. 2015 Oct;136(4):728-737. PMID: 26397250
32. **Broyles JM**, Jones D, Bellamy J, Elgendy T, Sebai M, Susarla SM, Vaca EE, Tuffaha SH, Manson PN, Dorafshar AH. Pediatric Orbital Floor Fractures: Outcome analysis of 72 Children with Orbital Floor Fractures. *Plast Reconstr Surg*. 2015 Oct;136(4):822-8. PMID: 26397254
33. Derrick CD, Shridharani SM, **Broyles JM**. The Safety and Efficacy of Cryolipolysis: A Systematic Review of Available Literature. *Aesthetic Surg J*. 2015 Sep;35(7):830-6. PMID: 26038367
34. Azoury SC, Grimm JC, Tuffaha SH, **Broyles JM**, Fischer AC, Yang SC, Tufaro AP. Chest Wall Reconstruction: Evolution Over a Decade and Experience With a Novel Technique for Complex Defects. *Ann Plast Surg*. 2015 Feb;76(2):231-7. PMID: 25992971
35. Tuffaha SH, Sarhane KA, Munding GS, **Broyles JM**, Reddy SK, Azoury SC, Seal S, Cooney DS, Bonawitz SC. Pyoderma Gangrenosum After Breast Surgery: Diagnostic Pearls and Treatment Recommendations Based on a Systematic Literature Review. *Ann Plast Surg*. 2016 Aug;77(2):e39-44. PMID: 25003456
36. Pang J, **Broyles JM**, Berli J, Buretta K, Shridharani SM, Rochlin DH, Efron JE, Sacks JM. Abdominal versus Thigh Based Reconstruction of Perineal Defects in Cancer Patients. *Dis Colon Rectum*. 2014 Jun;57(6):725-32. PMID: 24807597

37. **Broyles JM**, Berli J, Tuffaha SH, Sarhane KA, Cooney DS, Eckhauser FE, Lee WPA, Brandacher G, Singh DP, Sacks JM. Functional Abdominal Wall Reconstruction Using an Innervated Abdominal Wall Vascularized Composite Tissue Allograft: A Cadaveric Study and Review of the Literature. *J Reconstr Microsurg*. 2015 Jan;31(1):39-44.
38. R Ohkuma, R Mohan, **JM Broyles**, M Yamazaki, E Schneider, GD Rosson. Abdominal Based Free Flap Planning in Breast Reconstruction with CT Angiography-Systematic Review and Meta-Analysis. *Plast Reconstr Surg*. 2014 Mar;133(3):483-94.  
PMID: 24572842
39. Shridharani SM, Manson PN, Magarakis M, **Broyles JM**, Whitaker IS, Rodriguez ED. The Safety and Efficacy of Epinephrine in Hand Surgery-A Systematic Review of the Literature and International Surgey. *Eur J Plast Surg*. 2014 37:183  
PMID: N/A
40. Shridharani SM, **Broyles JM**, Matarasso A. Liposuction Devices: Technology Update. *Med Devices*. 2014 Jul 21;7:241-51.  
PMID: 25093000
41. **Broyles JM**, Abt NB, Sacks JM, Butler CE. Bioprosthetic Tissue Matrices in Complex Abdominal Wall Reconstruction. *Plast Reconstr Surg Glob Open*. 2014 1(9),91e-96e.  
PMID: 25289285
42. Kahalifian S, **Broyles JM**, Tuffaha SH, Alakren M, Ibrahim I, Sarhane K. Immune Mechanisms of Ischemia-Reprofusion Injury in Transplantation. *J Immun*. 2013 3:158-64.  
PMID: N/A
43. **Broyles JM**, Alrakan M, Ensor CR, Khalifian S, Kotton CN, Avery RK, Brandacher G, Lee WP, Gordon CR. Characterization, Prophylaxis, and Treatment of Infectious Complications in Craniomaxillofacial and Upper Extremity Allotransplantation: A multicenter perspective. *Plast Reconstr Surg*. 2014 133(4),543e-551e.  
PMID: 24675206
44. **Broyles JM**, Abt NB, Shridharani SM, Bojovic BB, Rodriguez ED, Dorafshar AH. The Fusion of Craniofacial and Microsurgery: A Functional and Aesthetic Approach. *Plast Reconstr Surg*. 2014 134(4),760-769  
PMID:25357035
45. Sarhane KA, Tuffaha SH, **Broyles JM**, Ibrahim AE, Khalifian S, Baltodano P, Santiago GF, Alrakan M, Ibrahim Z. A Critical Analysis of Rejection in

Vascularized Composite Allotransplantation: Clinical, cellular and molecular aspects, Current Challenges, and Novel Concepts. *Front Immunol.* 2013 Nov 25;4:406.

PMID: 24324470

46. **Broyles JM**, Wallner C, Borsuk DE, Dorafshar AD. The Role of Computer Assisted Design and Modeling in an Edentulous Mandibular Malunion Reconstruction. *The Journal of Craniofacial Surgery.* 2013 24(5);1835-1838.  
PMID: 24036792
47. Berli J, **Broyles JM**, Lough D, Shridharani S, Brandacher G, Sacks JM. Systematic Literature Review and Current Concepts of Vascularized Composite Allograft Transplantation of the Abdominal Wall. *Clin Transplant.* 2013 27(6), 781-789.  
PMID: 24102820
48. **Broyles JM**, Howell LK, Rosson GD. Successful DIEP Breast Reconstruction in a Patient with Prior Abdominoplasty. *Plast Reconstr Surg.* 2012 May;129(5):874e-5e.  
PMID: 22544140
49. Sacks JM, **Broyles JM**, Baumann DP. Considerations in Abdominal Wall Reconstruction. *Semin Plast Surg.* 2012 26(1):5-7.  
PMID: 23372451
50. Sacks JM, **Broyles JM**, Baumann DP. Flap Coverage of Anterior Abdominal Wall Defects. *Semin Plast Surg.* 2012 26:036-039.  
PMID: 23372457
51. Clemens MW, **Broyles JM**, Attinger CE. Update on Biological Basis of Diabetic Foot Wounds. 2010. *Surg Technol Int.* 2010 20:61-71.  
PMID: 21082550
52. George EM, Cabreriza SE, Quinn TA, Rusanov A, Gerrah R, **Broyles JM**, Weinberg AD, Spotnitz HM. Validation of Automated Monitoring of Cardiac Output for Biventricular Pacing Optimization. *J Am Soc Artif Org.* 2010 Mar 22; 56(3):265-9.  
PMID: 20335801
52. Dupre ML, **Broyles JM**, Mihic SJ. Effects of a Gating Mutation in the TM2-TM3 Linker Region of the Glycine Receptor Alpha-1 Subunit on Gating and Allosteric Modulation. *Brain Res.* 2007 Jun 4; 1152:1-9.  
PMID: 17434460

### **Invited Publications**

1. Phillips B, **Broyles JM**, Dayan E, Rajiv P, Salibian AA, Sanniec K, Steward C, Gosain AK. Spotlight in plastic surgery. *Plast Reconstr Surg.* 2018;142:291-

294.

2. Singh DP, Mavrophilipos VD, Zapora JA, Berli J, **Broyles J**, Chopra K, Sabino J, Matthews J, Buckingham EB, Maddox JS, Bluebond-Langer R, Silverman RP. Novel technique for innervated abdominal wall vascularized composite allotransplantation: a separation of components approach. *Eplasty*. 2014 Sep 19;14-34.  
PMID: 25328567
3. Pang J, **Broyles JM**, Redett R. Cleft lip and palate. *Eplasty*. 2013;13-25.  
PMID: 23409216
4. Follmar KE, **Broyles JM**, Shores JT Rheumatoid arthritis. *Eplasty*. 2013;13-29.  
PMID: 23457655
5. Kim JE, **Broyles JM**, Shridharani SM, Sacks JM. Breast reconstruction. *Eplasty*. 2013;13-22.  
PMID: 23409213
6. Kim JE, **Broyles JM**, Sacks JM. Mandible reconstruction. *Eplasty*. 2013;13-19.  
PMID: 23409210
7. Sacks JM, Nguyen AT, **Broyles JM**, Yu P, Valerio IL, Baumann DP. Nearinfrared laser-assisted indocyanine green imaging for optimizing the design of the anterolateral thigh flap. *Eplasty*. 2012;12:e30.  
PMID: 22876337

### **Book Chapters**

1. **Broyles JM**, Shecker C, Offodile AC. "Value Based Healthcare." *Plastic Surgery*. 2022. Editors: Nelligan, Pusic.
2. Silva J, Jackson A, **Broyles JM**. "Plastic Surgery and Flap Graft Management of Radial Forearm, VRAM, and TRAM flaps in Critically Ill Cancer Patients." *Oncologic Critical Care*. 2020. 1719-1726.
3. Arnatovic A, **Broyles JM**. "Mastopexy and Mastopexy Augmentation." *Plastic Surgery*. 2019. Editors: Orgill, Dennis.
4. Smith JM, **Broyles JM**. "Revision Breast Augmentation." *Plastic Surgery*. 2019. Editors: Orgill, Dennis.
5. Smith, JM. **Broyles JM**. "Poland Syndrome Reconstruction." *Plastic Surgery*. 2019. Editors: Orgill, Dennis.
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8. **Broyles JM**, Sacks JM. "Non-Healing Perineal Wound." Gastrointestinal Surgery: Management of Complex Perioperative Complications. 2014. Editors: Pawlik, Merchant, Maithel.
9. Sacks JM, **Broyles JM**. "Techniques in Spinal Wound Coverage." AO Spine Master Series. 2014. Editors: Vialle, Gokaslan, Boriani, and Fisher.
10. **Broyles JM**, Gordon CR. "Infections in Integument, Limbs, and Face Transplantation" Principals and Practice of Transplant Infectious Diseases. 2012. Editor: Amar Safdar.
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### **Media Appearances**

1. Plastic and Reconstructive Surgery Keynotes Podcast: "Importance of Radiation Therapy After Mastectomy." **Broyles JM**. 2020.
2. Dana Farber Videocast: "Breast Reconstruction after Inflammatory Breast Reconstruction." **Broyles JM**. 2021.
3. HealthCentral "How to Pick a Breast Reconstructive Surgeon." **Broyles JM**. 2022.

### **Abstracts**

1. **Broyles JM**, Walia GS, Bellow R, Carl HM, Pedriera RA, Sacks JM. Symptomatic deep venous thrombosis following lower extremity flap harvest: lessons learned from a single institution experience. American Association of Plastic Surgery. Austin, TX. 2017.
2. **Broyles JM**, Walia GS, Bellow R, Carl HM, Pedriera RA, Sacks JM. Symptomatic deep venous thrombosis following lower extremity flap harvest: lessons learned from a single institution experience. American Society for Reconstructive Microsurgery. Kona, HI. 2017.
3. **Broyles JM**, Devulapalli C, Walia GS, Bellow R, Sacks JM. Soft Tissue Reconstruction of Large Spinal Defects: A 12-year Institutional Experience. Plastic Surgery Research Council. New York, NY. 2016.

4. **Broyles JM**, Sarhane K, Tuffaha S, Cooney D, Lee WPA, Brandacher G, Sacks J. Functional abdominal wall reconstruction using an innervated abdominal wall vascularized composite allografts. American Association of Plastic Surgery. Scottsdale, AZ. 2015.
5. Sarhane KA, Ibrahim Z, Krick K, Martin R, Tuffaha SH, **Broyles JM**, Tehrani S, Mao H, Lee WP, Brandacher G. Selectively Permeable Nanofiber Constructs To Prevent Inflammatory Scarring And Enhance Nerve Regeneration in Peripheral Nerve Injury. American Society of Plastic Surgery. Chicago, Ill. 2014.
6. **Broyles JM**, Jones D, Bellamy J, Manson PM, Dorafshar AH. Surgical Intervention of Pediatric Orbital Floor Fracture Improves Enophthalmos but Does Not Affect Visual Outcomes: An Analysis of 72 Children with Isolated Orbital Floor Fractures. American Society of Plastic Surgery. Chicago, Ill. 2014.
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12. **Broyles JM**, Sacks JM, Butler CE. Abdominal Wall Reconstruction Using Human Acellular Dermal Matrix in Cancer Patients. The Johns Hopkins Hospital Research Symposium. Baltimore, MD. 2013.
13. Berli J, **Broyles JM**, Lough D, Sacks JM. Systematic Literature Review and Current Concepts of Vascularized Composite Allograft Transplantation of the Abdominal Wall. The Johns Hopkins Research Symposium. Baltimore, MD.

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14. Berli J, **Broyles JM**, Lough D, Sacks JM. Systematic Literature Review and Current Concepts of Vascularized Composite Allograft Transplantation of the Abdominal Wall. Georgetown Abdominal Wall Symposium. Washington, DC. 2013.
15. Basdag B, Bailey CR, Lacayo Baez M, Tong AR, Xie L, Seal S, Melendez M, **Broyles JM**, Williams EH, Rosson GD. The Effect of Neurolysis on Diabetic Patients with Compressed Nerves of the Lower Extremities: A Systematic Review and Meta-Analysis. The Plastic Surgery Research Council. Ann Arbor, MI. 2013.
16. Ohkuma R, Mohan R, **Broyles JM**, Yamazaki M, Schneider E, Rosson GD. Abdominal Based Free Flap Planning in Breast Reconstruction with CT angiography – Systematic Review and Meta-Analysis. The Plastic Surgery Research Council. Ann Arbor, MI. 2012.
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18. **Broyles JM**, Wagenheim G, Sartaj A, Ambrose C, Sen M. A High Ratio of Fresh Frozen Plasma to Packed Red Blood Cells Significantly Decreases Mortality in Femur Fracture Patients Requiring Massive Transfusion. Orthopaedic Trauma Association. Baltimore, MD. 2010.
19. George EM, Cabreriza S, Quinn TA, Gerrah R, **Broyles JM**, Weinberg AD, Spotnitz HM. Validation of Automated Monitoring of Biventricular Pacemaking Optimization. American Society for Artificial Internal Organs. New York, NY. 2009.
20. **Broyles JM**, Dupre ML, Mihic JS. Covalent Binding of PMTS Changes Alcohol Cutoff in the Glycine Receptor. International Society for Biomedical Research on Alcoholism. Boston, MA. 2007
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22. Dupre ML, **Broyles JM**, Klimt A, and Mihic SJ. Modulation of the Glycine  $\alpha$ 1 Receptor by Volatile Anesthetics is Influenced by a Mutation that Affects Gating. Society for Neuroscience. San Francisco, CA. 2006.
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Mutation on Alcohol Modulation of the Glycine  $\alpha$ 1 Receptor.  
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### **Oral Presentations**

1. **Broyles JM.** Breast reconstruction in Inflammatory Breast Cancer Patients. Albany University Medical Center. Albany, NY. February 2022.
2. **Broyles JM.** Abdominal Wall Transplantation: Indications and Future Directions. London Abdominal Wall Meeting. London, UK. January 2022.
3. **Broyles JM.** Breast Reconstruction in the Inflammatory Breast Cancer Patient: When and How. Dana Farber Cancer Center Oncology Summit. Boston, MA. November 2021.
4. **Broyles JM.** Free Flap Monitoring in Breast Reconstruction. Plastic Surgery Nursing Summit. Atlanta, GA. October 2021.
5. **Broyles JM.** Surgical Options for Breast Reconstruction and Vascularized Lymph Node Transfer. Plastic Surgery Nursing Summit. Atlanta, GA. October 2021.
6. **Broyles JM.** Simultaneous Breast Reconstruction and Vascularized Lymph Node Transfer in Breast Cancer Patients. Universidad de Buenos Aires Department of Surgery. Buenos Aires, Argentina. May 2021.
7. **Broyles JM.** Simultaneous Breast Reconstruction and Vascularized Lymph Node Transfer in Inflammatory Breast Cancer Patients. Dana Farber Inflammatory Breast Cancer Summit. Boston, MA. April 2021.
8. **Broyles JM.** Oncoplastic Breast Surgery: Volume Displacement versus Volume Replacement. Dana Farber Multidisciplinary Breast Cancer Conference. Boston, MA. April 2021.
9. **Broyles JM.** Establishing Value in Reconstructive Surgery. Brigham and Women's Research Conference. Boston, MA. March 2021.
10. **Broyles JM.** Vascularized Lymph Node Transfer for the Treatment of Breast Cancer Related Lymphedema. Tufts Medical Center. Department of Oncology Grand Rounds. Boston, MA. February 2021.

11. **Broyles JM.** Plastic Surgery and Insurance Negotiation. Brigham and Women's Hospital. Boston, MA. January 2021.
12. **Broyles JM.** Ballistic Facial Trauma Injuries. Brigham and Women's Hospital. Boston, MA. July 2020.
13. **Broyles JM.** Reconstruction after Breast Cancer. Brigham and Women's and Evergrande Healthcare. Boao, China. April 2020.
14. **Broyles JM.** Grand Rounds: Microsurgery as a career. Harvard Medical School. October 2019.
15. **Broyles JM.** Breast Reconstruction with AeroForm Tissue Expanders. Plastic Surgery the Meeting. Orlando. October 2018.
16. **Broyles JM.** Evolving Trends and Controversies in Breast Reconstruction. The Johns Hopkins Hospital. April 2017.
17. **Broyles JM.** Functional Abdominal Wall Reconstruction. University of Ghent. Ghent, Belgium. November 2016.
18. **Broyles JM.** A Peripheral Nerve Surgical Solution for Migraine Headaches. The Johns Hopkins Hospital. Baltimore, MD. January 2016.
19. **Broyles JM.** A Plastic Surgical Solution for Migraine Headaches. The Johns Hopkins Hospital. Baltimore, MD. October 2015.
20. **Broyles JM.** Surgical Intervention of Pediatric Orbital Floor Fracture Improves Enophthalmos but Does Not Affect Visual Outcomes: An Analysis of 72 Children with Isolated Orbital Floor Fractures. The Northeastern Society for Plastic Surgery. Providence, RI. 2014.
21. **Broyles JM.** Distal Radius Fractures: Evolving Concepts. The Johns Hopkins Hospital. Baltimore, MD. July 2014.
22. **Broyles JM.** Functional abdominal wall defects using an innervated abdominal wall vascularized composite allograft. The Johns Hopkins Hospital Resident Research Symposium. Baltimore, MD. June 2014.
23. **Broyles JM.** Abdominoplasty: Current Concepts and Future Directions. The Johns Hopkins Hospital. Baltimore, MD. September 2013.
24. **Broyles JM.** Functional Abdominal Wall Reconstruction. The Johns Hopkins Hospital. Baltimore, MD. August 2013.

25. **Broyles JM**, Sacks JM, Butler CE. Abdominal Wall Reconstruction Using Human Acellular Dermal Matrix in Cancer Patients. The Johns Hopkins Hospital Resident Research Symposium. Baltimore, MD. June 2013.
26. **Broyles JM**. Orthopaedic Upper Extremity Indications Conference. The Johns Hopkins Hospital. Baltimore, MD. March 2013.
27. **Broyles JM**. Upper Extremity Morbidity and Mortality. The Johns Hopkins Bayview Medical Center. Baltimore, MD. February 2013.
28. **Broyles JM**. Dysautonomia in Children with Mitochondrial Disorders. Pediatric Neurology Grand Rounds. Houston, TX. The University of Texas Medical School at Houston. 2010.
29. Dupre ML, **Broyles JM**, Mihic JS. The Effects of a Gating Mutation on Alcohol Modulation of the Glycine Alpha-1 Receptor. International Society for Biomedical Research on Alcoholism. San Francisco, CA. 2007.
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