

Abhishek Desai, MD

(Abhi)

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Clinical Training & Education

Categorical Resident, General Surgery Rutgers Robert Wood Johnson Medical School	2019-2025
Clinical Research Fellow University of Pennsylvania, Div. of Plastic Surgery & Center for Human Appearance	2021-2022
Boston University Seven-Year Liberal Arts/Medical Education (SMED) Program MD, School of Medicine	2015-2019
BA, College of Arts & Sciences Medical Science, Linguistics	2012-2016

Research

Published Book Chapters

1. Butler CE, Fischer JP, Desai AA. Anterior Component Separation Technique and Its Modifications for Ventral Hernia Repair. In: Baig SJ, Bhandarkar D, Priya P, eds. *Newer Concepts and Procedures in Hernia Surgery - An Atlas*. Springer Nature; 2022:35-44. doi:10.1007/978-981-19-5248-7_4

Published Journal Articles

1. Talwar A, Perry NJ, Desai A, et al. Minimizing the Mesh Footprint: 5-year Follow Up After Hernia Repair Using Poly-4-hydroxybutyrate Mesh. *Journal of the American College of Surgeons*. 2023;236(5):S41. doi:10.1097/01.XCS.0000932628.35596.3c
2. Talwar AA, Desai AA, McAuliffe PB, Broach RB, Percec I. Plastic Surgery Resident Training and Interest in Reconstruction for Female Genital Mutilation/Cutting. *Plastic and Reconstructive Surgery*. 2023;151(5):888e. doi:10.1097/PRS.0000000000010057
3. McAuliffe PB, Winter EE, Talwar AA, Desai AA, Broach RB, Fischer JP. Pressure Ulcer Trends in the United States: A Cross-Sectional Assessment from 2008-2019. *The American Surgeon™*. Published online February 24, 2023:00031348231158691. doi:10.1177/00031348231158691
4. McAuliffe PB, Muss TEL, Desai AA, Talwar AA, Broach RB, Fischer JP. Complications of Aesthetic Surgical Tourism Treated in the USA: A Systematic Review. *Aesth Plast Surg*. 2023;47(1):455-464. doi:10.1007/s00266-022-03041-z
5. Amro C, Desai A, Dattatri P, et al. Leveraging Natural Language Processing And Artificial Intelligence To Label Unstructured Data For Risk Prediction. *British Journal of Surgery*. 2023;110(Supplement_2):znad080.026. doi:10.1093/bjs/znad080.026
6. Talwar AA, Perry NJ, McAuliffe PB, et al. Shifting the Goalpost in Ventral Hernia Care: 5-year Outcomes after Ventral Hernia Repair with Poly-4-hydroxybutyrate Mesh. *Hernia*. 2022;26(6):1635-1643. doi:10.1007/s10029-022-02674-y
7. Talwar AA, Perry NJ, Barrero C, et al. Patient-reported and clinical outcomes of skin graft-based digital Mohs reconstructions. *Orthoplastic Surgery*. 2022;9:56-60. doi:10.1016/j.orthop.2022.06.004
8. Talwar AA, Shulkin JM, Hitchner M, et al. Use of Cosmetic Facial Injectables After Facial Aesthetic Surgery. *Aesthetic Surgery Journal*. 2022;42(10):1194-1204. doi:10.1093/asj/sjac171
9. McAuliffe PB, Kozak G, Bascone C, et al. Botulinum Toxin Use for Abdominal Wall Reconstruction. *Journal of the American College of Surgeons*. 2022;235(5):S201. doi:10.1097/01.XCS.0000894548.92795.e8

10. McAuliffe PB, Desai AA, Talwar AA, et al. Preoperative Computed Tomography Morphological Features Indicative of Incisional Hernia Formation After Abdominal Surgery. *Annals of Surgery*. 2022;276(4):616. doi:10.1097/SLA.0000000000005583
11. Malphrus EL, Desai A, Weiss ES, Couto JA, Broach R, Butler PD. Understanding public perception of bra size. *Journal of Plastic, Reconstructive & Aesthetic Surgery*. 2022;75(11):4197-4201. doi:10.1016/j.bjps.2022.08.038
12. Elfanagely O, Desai A, Arias F, Azzolini A, Agag RL, Sinkin JC. Evaluation of the credibility and credentials of social media reconstructive plastic surgery influencers on Twitter. *Journal of Plastic, Reconstructive & Aesthetic Surgery*. 2022;75(7):2387-2440. doi:10.1016/j.bjps.2022.04.068

Podium Presentations

1. *Characterizing morbidity and mortality after aesthetic abdominal surgery: a US nationwide analysis*
Abhishek A. Desai, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Jesse Y. Hsu, PhD, Robyn B. Broach, PhD, Joseph M. Serletti, MD, John P. Fischer, MD, MPH. 32nd Meeting of the European Association of Plastic Surgeons, 2022
2. *Artificially Intelligent Facial Feature Quantification after Facial Filler Injection*
Abhishek A. Desai, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Martin P. Morris, MBE, Adrienne N. Christopher, MD, Viren Patel, MD, Robyn B. Broach, PhD, Joseph M. Serletti, MD, Ivona Percec, MD. The Aesthetic Society Meeting, 2022
3. *Characterizing morbidity and mortality after aesthetic abdominal surgery: a US nationwide analysis*
Abhishek A. Desai, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Jesse Y. Hsu, PhD, Robyn B. Broach, PhD, Joseph M. Serletti, MD, John P. Fischer, MD, MPH. Plastic Surgery Research Council Meeting, 2022
4. *Breast Flap Neurotization Following Autologous Breast Reconstruction: A Prospective Trial*
Abhishek A. Desai, MD, Michael G. Tecce, DO, Adrienne Christopher, MD, Jessica Cunning, MD, Martin P. Morris, MBE, Arturo J. Rios-Diaz, MD, Shelby L. Nathan, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Robyn B. Broach, PhD, Joseph M. Serletti, MD. Plastic Surgery Research Council Meeting, 2022
5. *Artificially Intelligent Facial Feature Quantification after Facial Filler Injection*
Abhishek A. Desai, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Martin P. Morris, MBE, Adrienne N. Christopher, MD, Viren Patel, MD, Robyn B. Broach, PhD, Joseph M. Serletti, MD, Ivona Percec, MD. 68th Meeting of the Robert H Ivy Society of Plastic Surgeons, 2022
6. *Characterizing morbidity and mortality after aesthetic abdominal surgery: a US nationwide analysis*
Abhishek A. Desai, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Jesse Y. Hsu, PhD, Robyn B. Broach, PhD, Joseph M. Serletti, MD, John P. Fischer, MD, MPH. 68th Meeting of the Robert H Ivy Society of Plastic Surgeons, 2022
7. *Breast Flap Neurotization Following Autologous Breast Reconstruction: A Prospective Trial*
Abhishek A. Desai, MD, Michael G. Tecce, DO, Adrienne Christopher, MD, Jessica Cunning, MD, Martin P. Morris, MBE, Arturo J. Rios-Diaz, MD, Shelby L. Nathan, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Robyn B. Broach, PhD, Joseph M. Serletti, MD. 68th Meeting of the Robert H Ivy Society of Plastic Surgeons, 2022
8. *What's in a cup? Understanding Public Perception of Breast Size*
Abhishek A. Desai, MD, Elizabeth L. Malphrus, MD, Eric S Weiss, MD, Javier A Couto, MD, Robyn B. Broach, PhD, Paris D. Butler, MD. 68th Meeting of the Robert H Ivy Society of Plastic Surgeons, 2022

Poster Presentations

1. *Breast Flap Neurotization Following Autologous Breast Reconstruction: A Prospective Trial*

Abhishek A. Desai, MD, Michael G. Tecce, DO, Adrienne Christopher, MD, Jessica Cunning, MD, Martin P. Morris, MBE, Arturo J. Rios-Diaz, MD, Shelby L. Nathan, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Robyn B. Broach, PhD, Joseph M. Serletti, MD. American Association of Plastic Surgeons Centennial Meeting, 2022

2. *Artificially Intelligent Facial Feature Quantification after Facial Filler Injection*

Abhishek A. Desai, MD, Ankoor A. Talwar, MBA, Phoebe B. McAuliffe, BS, Martin P. Morris, MBE, Adrienne N. Christopher, MD, Viren Patel, MD, Robyn B. Broach, PhD, Joseph M. Serletti, MD, Ivona Percec, MD. American Association of Plastic Surgeons Centennial Meeting, 2022

3. *Revisional Bariatric Surgery for Failure to Lose Weight/Weight Regain and Refractory Complications at a Single MBSAQIP Accredited Center over Three Years.*

Abhishek A. Desai, MD, Jacob Nudel, MD, Hassan Beesley, BS, Donald Hess, MD. 34th Annual Meeting of the American Society for Metabolic and Bariatric Surgery, 2019

Other Research Experience

University of Pennsylvania Division of Plastic Surgery 2021-2022

- Outcomes assessment after aesthetic facial surgery using volumetric imaging and AI models

Boston University School of Medicine Machine Learning Group 2018-2020

- Identification and classification problems in CT interpretation
- Potential applications of deep learning AI in the management of acute appendicitis

Eskandar Lab, Massachusetts General Hospital 2016

- Used rapid-sampling EEG to investigate neural activity during decision making
- Overhauled design of the OpBox, an open-source operant conditioning and experimental environment for small rodents in use at 5+ MGH labs and internationally
 - Prototyped design and built 12 functional units
 - Reduced per-unit cost by 35%, now <10% cost compared to commercial solutions
- Developed diagnostic software to debug EEG signal anomalies
- Performed rudimentary EEG signal analysis using industry-standard tools

Professional Experience

- AMA-MSS Region 7 Community Service Chair & Governing Council Member 2016-2017
- Represented medical students from NY, CT, RI, MA, VT, NH, ME
 - Established the Regional Service Project
 - 2016-2017 RSP focused on naloxone training and homeless health initiatives; over 500 students from 40+ medical schools nationwide participated
 - Co-author of Resolution 68 of the AMA-MSS Annual Meeting 2017
 - “Disaggregation of Data Concerning the Status of Asian-Americans in Medicine.”
 - Organized a fundraising competition at the 2016 AMA interim meeting raising several thousand dollars for the AMA Foundation
 - Began the process of collecting comprehensive data on the community service activities and interests of the chapters within our Region
- BUSM Brain Enrichment Program Leader 2016-2017
- BEP provides 1) weekly interactive educational programming for assisted living home residents and 2) a platform for medical students to hone their communication and public speaking skills
 - Expanded operations to a second site, doubled the frequency of presentations
 - Developed a web-based "start-up package" for new satellite chapters at other medical schools
- Firefighter-Cadet & EMT-B, Cabin John Park Volunteer Fire Department 2010-2014
- Began training 1 week after reaching the minimum age requirement; received EMT license at 15

Awards & Honors

- Dean's Scholarship, BU School of Medicine 2015-2019
- Sam & Evelyn Margolis Scholarship 2014-2015
- Dean's List, BU College of Arts & Sciences 2012-2015