

EDWARD W. SWANSON, MD

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EDUCATION

HARVARD MEDICAL SCHOOL, BOSTON, MA

Doctorate of Medicine (MD), *Cum Laude*, August 2008-May 2012

UNIVERSITY OF PENNSYLVANIA, SCHOOL OF ENGINEERING AND APPLIED SCIENCE, PHILADELPHIA, PA

Bachelor of Applied Science (BAS), *Applied Science in Biomedical Science, Cum Laude*, August 2003-May 2007

EXPERIENCE

Entropy Bio Inc., Blue Bell, PA - Biotechnology Company Developing Therapeutics for Oncology

Founder, Chief Executive Officer, and Director, September 2021-present

- Entropy Bio is a preclinical biotech company dedicated to helping patients defeat cancer by stopping treatment-resistance before it has the chance to develop using the first and only cancer model that predicts resistance
- Advancing lead therapy for lung cancer with a pipeline of resistance-suppressing therapies for other indications

PolarityTE, Inc., Salt Lake City, UT (Nasdaq: PTE, www.PolarityTE.com) - Biotech & Regenerative Medicine Company

Co-Founder, Consultant/Advisor, Medical Monitor - Phase III FDA BLA Clinical Trial COVER DFUS (5/2021-present)

- Consultant/advisor for clinical development and regulatory strategy for autologous skin cell therapy SkinTE due to critical role as Chief Medical Officer of PolarityTE in obtaining IND approval, deep knowledge of SkinTE product as Co-Founder of the company (details below), and expertise in wound care from plastic surgery background/training (details below)
- Medical monitor for enrolling IND-approved Phase 3 FDA Biologics License Application (BLA) Clinical Trial COVER DFUS (NCT05372809) investigating the safety and effectiveness of SkinTE plus standard of care (SOC) compared to SOC alone in the treatment of Wagner 2 diabetic foot ulcers (DFUs)

Healthtech Solutions Inc., New York, NY (OTC: HLTT) - Portfolio Model Life Sciences Company

Chief Executive Officer, May 2021-September 2021

- Successfully executed recruitment goals of short-term leadership role to restructure company, evaluate current business/assets, identify new M&A targets and partnerships, develop business strategy and vision, and prepare company for exchange up-listing and future financings

PolarityTE, Inc., Salt Lake City, UT (Nasdaq: PTE, www.PolarityTE.com) - Biotech & Regenerative Medicine Company

Co-Founder, Chief Medical Officer (1/2020-5/2021), Chief Translational Medicine Officer (4/2019-1/2020), Chief Operating Officer (12/2016-4/2019), Board of Directors (12/2016-8/2018)

- Co-Founder of a biotechnology company utilizing autologous cells and tissue to develop regenerative products capable of forming complex/functional tissues - launched company through a public merger, raised >\$250 million
- Areas of significant experience/leadership: Company formation and financing, Medical Affairs, Regulatory Affairs, R&D, Product Development, Business Development, Commercialization, Manufacturing and Quality, M&A, CEO of subsidiaries
- Brought the first pipeline product to market within 9 months of company launch: SkinTE®, an autologous skin regeneration product that uses a small piece of the patient's own skin to regenerate full-thickness functional skin
- Completed two successful multi-centered randomized controlled trials (mRCTs) in diabetic foot ulcers (DFUs) and venous leg ulcers (VLUs) demonstrating significant improvement in wound closure and percent area reduction in both trials
- Led IND approval and initiated Phase 3 BLA trial investigating SkinTE for treatment of Wagner 2 DFUs (NCT05372809)
- Built commercial team spanning United States to grow adoption of SkinTE with >1,200 patients treated

The Johns Hopkins University School of Medicine, Dept of Plastic and Reconstructive Surgery, Baltimore, MD

Resident in Plastic and Reconstructive Surgery, July 2012-December 2016

- Top tier training program in the most competitive medical specialty with intensive research and clinical program
- >40 peer-reviewed publications, 4 book chapters, and 30 meeting presentations as resident in <5 years
- Demonstrated leadership - one of two elected resident members of two leadership committees within John Hopkins

The Johns Hopkins University School of Medicine, Dept of Plastic and Reconstructive Surgery, Baltimore, MD

Research Fellow in Tissue Engineering, Transplant Immunology, Clinical Outcomes, July 2014-June 2015

- Directed large-animal translational immunotherapy models for hand and facial transplantation under Department of Defense grants, maintained and managed multimillion-dollar grants for ongoing translational research
- One of two residents/research fellows on clinical upper extremity allotransplantation team (hand transplant team)

Massachusetts General Hospital, Harvard Medical School, Transplant Biology Research Center, Boston, MA

Research Fellow, Vascularized Composite Allotransplantation and Transplant Tolerance Induction, January 2012-June 2012

Brigham and Women's Hospital, Harvard Medical School, Dept of Surgery, Boston, MA

Research Fellow, Pancreatic Cancer Biology, July 2007-July 2008; Research Intern, Wound Healing, May 2004-August 2004

University of Pennsylvania School of Medicine, Dept of Neurosurgery, Philadelphia, PA

Research Student, Traumatic Brain Injury Basic Science and Clinical Research, June 2005-May 2007

LECTURES & PODIUM PRESENTATIONS

1. PolarityTE, Inc. Corporate Presentation. 13th Annual Wells Fargo Securities Healthcare Conference, September 5-6, 2018.
2. PolarityTE, Inc. Corporate Presentation. 39th Annual Cowen Healthcare Conference, March 11, 2019
3. PolarityTE, Inc. Corporate Presentation. 13th Annual Canaccord Genuity Musculoskeletal Conference, March 12, 2019.
4. PolarityTE, Inc. Corporate Presentation. Oppenheimer 29th Annual Healthcare Conference, March 20, 2019.
5. PolarityTE, Inc. Corporate Presentation. Cantor Fitzgerald Global Healthcare Conference, October 2, 2019.
6. PolarityTE, Inc. Fireside Chat. Piper Jaffray 31st Annual Healthcare Conference, December 4, 2019.
7. "Time Doesn't Heal All Wounds: Wound Care Panel with PTE, MDWD, CellResearch Corp." Evercore ISI 3rd Annual HealthCONx Virtual Conference. December 1, 2020.
8. "From HMS to Hopkins to Industry: An Unexpected Path to Biotech on Wall Street." Harvard Plastic Surgery Grand Rounds, December 2, 2020.

June 10, 2020

PROFESSIONAL ACTIVITIES

1. Wound Healing Society (WHS) - Member, August 2020-present
2. National Pressure Injury Advisory Panel (NPIAP) - Corporate Advisory Committee (CAC) Research Committee Member, June 2020-present
3. American Medical Association (AMA) - Member, May 2018-Present

PATENTS

1. Lough D, **Swanson E**. Package for transport and handling of biological materials. USD894729S1. Expiration: September 01, 2035. (ISSUED)
2. Lough D, **Swanson E**. Advanced specific harvest, containment, and deployment system (ASHCADS). Application Number: 16/109,341. Published: February 2, 2019. (PENDING)

PROFESSIONAL LICENSES & IDENTIFICATION NUMBERS

NPI 1578838959

Active Pennsylvania State Medical License MD470558, Issued

EDITORIAL ACTIVITIES

Annals of Plastic Surgery - Peer Reviewer, September 2020-present

BIBLIOGRAPHY

Current Google Scholar h-index: 22 • Current Google Scholar i10-index: 35 • [Google Scholar Profile Link](#)

Book Chapters

1. **Swanson EW**, Gordon CR. The Role of Surgery and Adjuvant Therapies for Meningeal Sarcoma with Brain Invasion. In: Quinones-Hinojosa, Raza. Controversies in Neurooncology. New York: Thieme Medical Publishers; 2014.
2. Gordon CR, Susarla HK, **Swanson EW**, Susarla SM, Armand M, Grant G, Kaban LB, Yaremchuk MJ. Le Fort-based Maxillofacial Vascularized Transplantation. In: Naini, Gills. Orthognathic Surgery: Principles, Planning, and Practice, First Edition. West Sussex, UK: John Wiley and Sons Ltd; 2017.
3. **Swanson EW**, O'Brien D, Gordon CR. Facial Alloflap for Facial Transplantation. In: Mathes. International Flap Manual. In Press.
4. **Swanson EW**, Rodriguez ED, Dorafshar AH. Facial Allotransplantation. In: Prein J, Ehrenfeld M, Manson PN. Principles of Internal Fixation of the Craniomaxillofacial Skeleton - Trauma and Orthognathic Surgery. In Press.

Peer-Reviewed Publications

1. Abramson MA, **Swanson EW**, Whang EE. Surgical resection versus palliative chemoradiotherapy for the management of pancreatic cancer with local venous invasion: A decision analysis. J Gastrointest Surg. 2009; 13(1): 26-34. PMID: 18946644
2. Stein SC, Ganguly K, Belfied CM, Xu X, **Swanson EW**, Chen XH, Browne KD, Johnson VE, Smith DH, LeBold DG, Cines DB, Muzykhantov V. Erythrocyte-bound tissue plasminogen activator (tPA) is neuroprotective in experimental traumatic brain injury. J Neurotrauma. 2009; 26: 1585-1592. PMID: 19331516
3. Matros E, **Swanson EW**, Pribaz JJ. A modification of the FAMM flap for palatal reconstruction in patients with intact dentition. Plast Reconstr Surg. 2010; 125(2): 645-647. PMID: 20124849
4. Ito H, Abramson M, Ito K, **Swanson E**, Cho N, Ruan DT, Swanson RS, Whang EE. Surgery and staging of pancreatic neuroendocrine tumors: A 14-year experience. J Gastrointest Surg. 2010; 14(5): 891-898. PMID: 20224984
5. **Swanson EW**, Mascitelli J, Steifel M, Macmurtrie E, Levine J, Kofke A, Yang W, LeRoux P. Patient transport and brain oxygen in comatose patients. Neurosurg. 2010; 66(5): 925-931. PMID: 20404697
6. **Swanson EW**, Matros E, Perez-Atayde A, Mulliken JB. Nasomaxillary dermoid. J Craniofac Surg. 2010; 21(3): 866- 869. PMID: 20485071
7. **Swanson EW**, Sullivan SR, Ridgway EB, Marrinan EM, Mulliken JB. Speech outcomes following pharyngeal flap in patients with velocardiofacial syndrome. Plast Reconstr Surg. 2011; 125(5): 2045-53. PMID: 21532431
8. Pryor L, Gordon CR, **Swanson EW**, Reish RG, Horton K, Cohen SR. Dermaplaning, topical oxygen, and photodynamic therapy: A

- systematic review of the literature. *Aesthetic Plast Surg*. 2011. PMID: 21533984
9. Susarla S, **Swanson E**, Gordon CR. Craniomaxillofacial reconstruction using allotransplantation and tissue engineering: challenges, opportunities, and potential synergy. *Ann Plast Surg*; 2011; 67(6): 655-61. PMID: 21825966
 10. Gordon CR, **Swanson EW**, Westvik T, Yaremchuk MJ. Bipolar duraplasty: A new technique for transient correction of cerebral herniation during definitive cranioplasty. *J Neurosurg*. 2011; 115(5): 1025-8. PMID: 21854117
 11. Salvador-Morales C, Thakkar A, **Swanson EW**, Langer RL, Farokhzad O. Recent discoveries in multifunctional hybrid nanoparticles: Opportunities and challenges in cancer therapy. *Front Biosci*. 2012; 4: 529-45. PMID: 22201893
 12. **Swanson EW**, Swanson SJ, Swanson RS. Endoscopic pyloric balloon dilatation obviates the need for pyloroplasty at esophagectomy. *Surg Endosc*. 2012; 26(7): 2023-8. PMID: 22398960
 13. **Swanson E**, Vercler C, Yaremchuk MJ, Gordon CR. Modified Gillies approach for zygomatic arch fracture reduction in the setting of a bicoronal exposure. *J Craniofac Surg*. 2012; 23(3): 859-62. PMID: 22565912
 14. Gordon CR, **Swanson EW**, Susarla SM, Coon D, Rada E, Rakan MA, Santiago GF, Shores J, Bonawitz SC, Fishman EK, Murphy R, Armand M, Liacouras P, Grant GT, Brandacher G, Lee WPA. Overcoming crossgender differences and challenges in Le Fort-based, maxillofacial transplantation with enhanced computer-assisted technology. *Ann Plast Surg*. 2013; 71(4): 421-8. PMID: 24025655.
 15. Gordon CR, Murphy R, Coon D, Basafa E, Otake Y, Al Rakan M, Rada E, Susarla S, **Swanson E**, Fishman E, Santiago G, Brandacher G, Liacouras P, Grant G, Armand M. Preliminary development of a workstation for craniomaxillofacial surgical procedures - Introducing a Computer-Assisted Planning and Execution (CAPE) System. *J Craniofac Surg*. 2014; 25(1): 273-8. PMID: 24406592
 17. **Swanson EW**, Brandacher G, Gordon CR. Discussion: Lessons learned from the first quadruple extremity transplant in the world. *Ann Plast Surg*. 2014; 73(3): 343-5. PMID: 25003409.
 18. Zhong S, Huang GJ, Susarla SM, **Swanson EW**, Huang J, Gordon CR. Craniofacial reconstruction with polymethylmethacrylate (PMMA) customized cranial implants. *J Craniofac Surg*. 2015; 26(1): 64-70. PMID: 25376145.
 19. Susarla SM, **Swanson EW**, Peacock ZS. Bilateral mandibular fractures. *EPlasty*. 2014; 14. PMID: 25525485.
 20. Hausein O, **Swanson EW**, Abraham JA, Higgins JP, Lee WPA, Shores JT, Brandacher G. Surgical and logistical aspects of donor limb procurement in hand and upper extremity transplantation. *Vascularized Composite Allotransplantation*. 2014; 1(1-2): 31-41.
 21. **Swanson EW**, Hsu YC, Cheng HT. CTA and contrast-enhanced MRA are equally accurate for localizing deep inferior epigastric perforator flap arteries - a systematic review. *J Plast Reconstr Aesthet Surg*. 2015; 68(4): 500- 501. PMID: 25476523.
 22. **Swanson EW**, Susarla SM, Cheng HT, Yalanis GC, Lough DM, Johnson O, Tufaro AP, Manson PN, Sacks JM. Vasopressor-dependent recipient vessel blood flow in head and neck free tissue transfer: A report of two cases. *J Reconstr Microsurg*. 2015; 31(6): 477-80. PMID: 25826440.
 23. Zhong S, Huang GJ, Susarla SM, **Swanson EW**, Huang J, Gordon CR. Quantitative analysis of dual purpose, patient specific craniofacial implants for correction of temporal deformity. *Neurosurg*. 2015; Suppl 220-9. PMID: 25710104.
 24. **Swanson EW**, Susarla SM, Ghasemzadeh A, Munding GS, Redett RJ, Tufaro AP, Manson PN, Dorafshar AH. Application of the mandible injury severity score (MISS) to pediatric mandibular fractures. *JOMS*. 73(7):1341-9. PMID: 25936782
 25. Galdyn I, **Swanson E**, Gordon C, Kwicien G, Bena J, Siemionow M, Zins J. Microcirculatory effect of topical vapocoolants. *Plast Surg (Oakv)*. 2015; 23(2): 71-76. PMID: 26090345
 26. Susarla SM, **Swanson EW**, Lopez J, Peacock ZS. Do quantitative measures of research productivity correlate with academic rank in oral and maxillofacial surgery? *J Dental Education*. 2015; 79(8): 907-13. PMID: 26246528
 27. Susarla SM, Lopez J, **Swanson EW**, Miller D, Coon D, Zins JE, Serletti JM, Yaremchuk MJ, Manson PN, Gordon CR. Do quantitative measures of academic productivity predict academic rank in plastic surgery? A national study. *Plast Reconstr Surg*. 2015; 136(3): 613-21. PMID: 26313830
 28. Susarla SM, Munding GS, **Swanson EW**, Basile L, Dodson TB, Redett RJ. What is the quality of the evidence in the craniomaxillofacial surgery literature? *JOMS*. 2015; 73(10): 2017-23. PMID: 25869980.
 29. Susarla SM, **Swanson EW**, Lopez J, Peacock ZS, Dodson TB. Does self-citation influence quantitative measures of research productivity among academic oral and maxillofacial surgeons? *JOMS*. 2015; 73(10): 1981e1-7. PMID: 26044606
 30. Susarla SM, Andrews R, Hilal N, **Swanson EW**, Susarla HK, Martin BS, Kumar A. Is canine eruption velocity affected by the presence of allograft within a repaired alveolar cleft? *JOMS*. 2015; 73(10): 1888-1893. PMID: 26120066
 31. Lopez J, Susarla SM, **Swanson EW**, Calotta N, Lifchez SL. The association of the h-index and academic rank among full-time academic hand surgeons affiliated with fellowship programs. *J Hand Surg*. 2015; 40(7): 1434-41. PMID: 26026351
 32. Ghasemzadeh A, Munding GS, **Swanson EW**, Utria A, Dorafshar AH. Treatment of pediatric condylar fractures: A 20 year experience. *Plast Reconstr Surg*. 2015; 136(6): 1279-88. PMID: 26595021
 33. **Swanson EW**, Cheng HT, Lough DM, Lee WPA, Shores JT, Brandacher G. Lower extremity allotransplantation: Are we ready for prime time? *Vascularized Composite Allotransplantation*. 2015; 2(2): 37-46
 34. Lopez J, Zhong SS, Sankey EW, **Swanson EW**, Susarla H, Jusue-Yorres I, Huang J, Brem H, Auwaerter PG, Gordon CR. Time interval reduction for delayed implant-based cranioplasty reconstruction in the setting of previous bone flap osteomyelitis. *Plast Reconstr Surg*. 2016; 137(2): 394e-404e. PMID: 26818330
 35. Lopez J, Susarla SM, **Swanson EW**, Luck JD, Tuffaha S, Lifchez SD. The effect of self-citations on the Hirsch index among full-time academic hand surgeons. *J Surg Educ*. 2016; 73(2): 317-22. PMID: 26868316
 36. **Swanson EW**, Miller DT, Susarla SM, Lopez J, May JW Jr., Redett RJ. What effect does self-citation have on bibliometric measures in academic plastic surgery? *Ann Plast Surg*. Epub ahead of print. PMID: 26101989
 37. **Swanson EW**, Cheng HT, Susarla SM, Yalanis GC, Lough DM, Johnson O, Tufaro AP, Manson PN, Sacks JM.
 38. Intraoperative use of vasopressors is safe in head and neck free tissue transfer. *J Recon Microsurg*. Epub ahead of print. PMID: 26340760
 39. Chopra K, **Swanson EW**, Susarla SM, Chang S, Stevens WG, Singh DP. A comparison of research productivity across plastic surgery fellowship directors. *Aesthet Surg J*. Epub ahead of print. PMID: 26530481
 40. **Swanson EW**, Cheng HT, Susarla SM, Lough DM, Kumar AR. Does negative pressure wound therapy applied to closed incisions following ventral hernia repair prevent wound complications and hernia recurrence? A systematic review and meta-analysis. *Plast Surg (Oakv)*. 2016; 24(2):113-8. PMID 27441196
 41. Susarla SM, Munding GS, Chang C, **Swanson EW**, Lough D, Rottgers SA, Redett RJ, Kumar AR. Gastrostomy placement rates in infants with

- Pierre Robin Sequence: A comparison of tongue-lip adhesion to mandibular distraction osteogenesis. *Plast Reconstr Surg*. Accepted for Publication June 14, 2016. 2017; 139(9): 149-54. PMID: 28027240
42. Susarla SM, **Swanson EW**, Slezak S, Lifchez S, Redett RJ. The perception and costs of the interview process for plastic surgery residency programs: Can the process be streamlined? *Plast Reconstr Surg*. 2017; 139(1): 302e-309e. PMID: 27632394
 43. Susarla SM, Rada EM, Lopez J, **Swanson EW**, Miller D, Redett RJ, Kumar AR. Does the H index correlate with academic rank among full-time academic craniofacial surgeons? *J Surg Educ*. 2017; 74(2):222-227. PMID: 27717705
 44. Lough DM, Sopko NA, Matsui H, Miller D, **Swanson EW**, Bluebond-Langner R, Brandacher G, Burnett AL, Bivalacqua TJ, Redett RJ. The Urogenital Epithelium and Corporal Tissues Are the Primary Targets of Rejection in Penile Vascularized Composite Allotransplantation: A New Real-Time Tissue-Based Monitoring System, *Plastic Reconstr Surg*. 2019; 143(3): 534e-544e. PMID: 30817651
 45. Johnson O, Nelson M, Estabrooke I, Sopko NA, **Swanson EW**. Successful treatment of war zone traumatic lower extremity wound with exposed tendons using an autologous homologous skin construct (AHSC). *Cureus*. 2020; 12(5): e7592. PMID: 32399374
 46. Munding GS, Armstrong DG, Smith D, Sillon AM, Chatterjee A, Tamagnini G, Partridge J, Milner SM, Baetz N, Labroo P, **Swanson EW**, Sopko NA, Granick MS. Autologous homologous skin constructs allow safe closure of wounds: A retrospective, non-controlled, multi-centered case series. *Plast Reconstr Surg Glob Open*. 2020; doi: 10.1097/GOX.0000000000002840
 47. Labroo P, Baetz N, Ifediba M, Stauffer K, Sieverts M, Johnson J, Chan E, Robinson I, Miess J, Irvin J, Lambert L, Garrett C, **Swanson EW**, Sopko NA. Cortical and cancellous bone regeneration in cranioplasty and spinal arthrodesis models using autologous homologous bone construct (AHBC). *J Regen Med*. 2020; 9(2): doi: 10.37532/jrgm.2020.9(2).159
 48. Munding GS, Stalder MW, Lee J, Patterson CW, Harma S, Womac DJ, Sopko NA, Swanson EW. Autologous heterogeneous skin constructs close traumatic lower extremity wounds in pediatric patients: A Retrospective Case Series. *Int J Lower Extremity Wounds*. 2021; doi: 10.52198/21.STI.38.WH1403
 49. Milner S, **Swanson E**, Granick M, Sopko N. Addressing full-thickness wound defects: A review of clinically available autologous skin replacements. *Surg Technol Int*. 2021; doi: 10.52198/21.STI.38.WH1403

Submissions

1. Baetz N, Labroo P, Ifediba M, Johnson J, Chan E, Robinson I, Miess J, Roth S, Smith D, Laun J, Munding GS, Granick MS, Milner S, Garrett C, **Swanson EW**, Sopko NA. Pre-clinical evaluation and clinical translation of an autologous heterogeneous skin construct to close wounds. *Stem Cell Int*

Presentations

Oral Presentations

1. Abramson MA, **Swanson EW**, Whang EE. Glucose deprivation promotes chemoresistance to gemcitabine through an akt-dependent mechanism. American College of Surgeons 94th Clinical Congress, October 15, 2008, San Francisco, CA. *presented by Abramson MA
2. **Swanson EW**, Sullivan SR, Ridgway EB, Marrinan EM, Mulliken JB. Speech outcomes following palatoplasty and pharyngeal flap in patients with velocardiofacial syndrome. The Velo-Cardio-Facial Syndrome Educational Foundation, Inc. 16th Annual International Scientific Meeting, July 3, 2009, Rome, Italy. *presented by Marinan EM
3. **Swanson EW**, Swanson SJ, Swanson RS. Endoscopic pyloric balloon dilatation obviates the need for pyloroplasty at esophagectomy. New England Surgical Society 91st Annual Meeting, October 2010, Saratoga Springs, NY.
4. **Swanson EW**, Santiago GF, Susarla SM, Bonawitz SC, Sacks JM, Shores J, Cooney DS, Cooney CM, Byrne PO, Fishman EK, Grant GT, Brandacher G, Lee WPA, Gordon CR. Should transgender facial skeletal donation be considered for craniomaxillofacial allotransplantation? A cadaver study. American Society for Reconstructive Transplantation 3rd Biennial Meeting, October 2012, Chicago, IL.
5. **Swanson EW**, Susarla SM, Santiago GF, Bonawitz SC, Sacks JM, Shores J, Cooney DS, Cooney CM, Byrne PO, Fishman EK, Grant GT, Brandacher G, Lee WPA, Gordon CR. Overcoming cross-gender differences in Le-Fort based facial transplantation: computer aided surgery and custom guide fabrication. The Johns Hopkins/University of Maryland Annual Resident Research Day Symposium, June 2013, Baltimore, MD.
6. **Swanson EW**, Susarla SM, Santiago GF, Bonawitz SC, Shores J, Sacks JM, Cooney DS, Al Rakan M, Fishman EK, Murphy R, Armand M, Liacouras P, Grant GT, Brandacher G, Lee WPA, Gordon CR. Should transgender facial skeletal donation be considered for craniomaxillofacial allotransplantation? A cadaver study. International Society of Craniofacial Surgery 15th International Congress, September 2013, Jackson Hole, WY. *presented by Santiago GF
7. Shridharani SM, **Swanson EW**, Broyles JB, Manson PN, Singh NK, Rodriguez ED. Evidence based medicine versus experience based medicine in plastic surgery: The role of ketorolac in plastic surgery - an international survey and systematic review of the literature. American Society of Aesthetic Plastic Surgeons Annual Meeting, April 2014, San Francisco, CA. *presented by Shridharani SM
8. **Swanson EW**, Ghasemzadeh A, Munding GS, Susarla SM, Broyles JM, Reddy SK, Utria AF, Dorafshar AH. Pediatric mandibular fracture treatment algorithm. The Johns Hopkins/University of Maryland Annual Resident Research Day Symposium, June 2014, Baltimore, MD.
9. **Swanson EW**. Craniofacial vascular malformations: Applying core principles to unique problems. Johns Hopkins/University of Maryland Plastic and Reconstructive Surgery Grand Rounds, September 2014, Baltimore, MD.
10. **Swanson EW**. Moberg syndrome. Johns Hopkins/University of Maryland Plastic and Reconstructive Surgery Grand Rounds, March 2015, Baltimore, MD.
11. **Swanson EW**, Furtmüller G, Cheng HT, Khusheim M, Lough DM, Oh B, Yalanis GC, Miller D, Fryer M, Kern B, Madsen C, Garrett C, Moats C, Sacks JM, Bonawitz SC, Shores JT, Cooney DS, Lee WPA, Brandacher G. Long-term high-dose tacrolimus monotherapy is associated with significant infectious complications in a large animal vascularized composite allotransplantation model. 12th Congress of the International Hand and Composite Tissue Allotransplantation Society, April 2015, Philadelphia, PA.
12. Lough DM, **Swanson EW**, Miller DT, Madsen C, Furtmüller G, Oh BC, Cheng HT, Fryer M, Kern B, Cooney DS, Raimondi G, Lee WPA, Brandacher G. A new modality for a new VCA model: Defining the MLR based kinetics of immune modulation in bone marrow derived MSCs using live imaging. 12th Congress of the International Hand and Composite Tissue Allotransplantation Society, April 2015, Philadelphia, PA. *presented by Lough DM
13. Furtmüller G, Crane NJ, Luthra R, **Swanson EW**, Cheng HT, Oh BC, Otovic P, Garrett C, Elster E, Lee WPA, Brandacher G. Non-invasive imaging modalities for immune monitoring of vascularized composite allografts in a swine heterotopic hind limb transplantation model. 12th Congress of

- the International Hand and Composite Tissue Allotransplantation Society, April 2015, Philadelphia, PA. *presented by Furtmüller G
14. Zhong S, **Swanson EW**, Gordon CR. Facial skeletal augmentation using porous polyethylene implants for improved aesthetics in the setting of traumatic and congenital facial asymmetry. American Society of Plastic Surgeons Aesthetica Super Symposium, April 2015, Las Vegas, NV. *presented by Zhong S
 15. Lough DM, Madsen C, **Swanson EW**, Miller DT, Brandacher G, Kumar A. Utilization of Muscle Derived Stem Cells in Combination with hBMP-2 Seeded Scaffolding Augments Proliferation, Migration and Osteogenic Induction: A Novel Method for the Repair of Critically Sized Bone Defects. Plastic Surgery Research Council 60th Annual Meeting, May 2015, Seattle, WA. *presented by Lough DM
 16. **Swanson EW**, Cheng HT, Susarla SM, Yalanis GC, Lough DM, Johnson O, Tufaro AP, Manson PN, Sacks JM. Intraoperative use of vasopressors is safe in head and neck free tissue transfer. 7th European Plastic Surgery Research Council, August 2015, Hamburg, Germany. *presented by Sacks JM
 17. Lopez J, Zhong S, Sankey EW, **Swanson EW**, Susarla H, Torres I, Huang J, Brem H, Auwaerter P, Gordon C. Time Interval Reduction for Delayed Implant-Based Cranial Reconstruction in the Setting of Previous Bone Flap Osteomyelitis. The 95th Annual Northeastern Society of Plastic Surgery (NESPS) Annual Meeting. September 18- 20, 2015, Philadelphia, PA. *presented by Lopez J
 18. **Swanson EW**, Cheng HT, Susarla SM, Yalanis GC, Lough DM, Johnson O, Tufaro AP, Manson PN, Sacks JM. Intraoperative use of vasopressors is safe in head and neck free tissue transfer. The 95th Annual Northeastern Society of Plastic Surgery (NESPS) Annual Meeting. September 18- 20, 2015, Philadelphia, PA.
 19. **Swanson EW**, Susarla SM, Lough DM, Cheng HT, Kumar A. Incisional Negative Pressure Wound Therapy Following Ventral Hernia Repair Reduces Wound Complications and Hernia Recurrence: A Meta-Analysis. American Society of Plastic Surgeons, Plastic Surgery The Meeting 2015, October 17, 2015, Boston, MA.
 20. Lough DM, Madsen C, Miller D **Swanson E**, Sopko N, Wang H, Guo Q, Lee WP, Brandacher G, Kumar A. A Novel Method for the Repair of Critically Sized Bone Defects: Utilization of a Muscle Derived Stem Cell-Seeded Scaffold Augments Proliferation, Migration and Osteogenic Induction. American Society of Plastic Surgeons, Plastic Surgery The Meeting 2015, October 17, 2015, Boston, MA. *presented by Lough DM
 21. Madsen C, Lough D, Guo Q, **Swanson E**, Sopko N, Miller D, Brandacher G, Kumar A. Optimal murine cranial defect reconstruction utilizing a novel collagen scaffold and rhBMP2 with analysis utilizing confocal microscopy. American Society of Plastic Surgeons, Plastic Surgery The Meeting 2015, October 19, 2015, Boston, MA.
 22. *presented by Madsen C
 23. **Swanson EW**. Orthognathic surgery: Diagnosis and planning. Johns Hopkins/University of Maryland Plastic and Reconstructive Surgery Grand Rounds, December 2015, Baltimore, MD.
 24. **Swanson EW**, Cheng HT, Susarla SM, Yalanis GC, Lough DM, Johnson O, Tufaro AP, Manson PN, Sacks JM. Intraoperative use of vasopressors is safe in head and neck free tissue transfer. 2016 American Society for Reconstructive Microsurgery Annual Meeting, January 19, 2016, Scottsdale, AZ.
 25. Wang HD, **Swanson EW**, Cheng HT, et al. Vascularized composite allograft tolerance with costimulatory blockade and transient tacrolimus in a large animal model. Plastic Surgery Research Council 61st Annual Meeting, May 2016, New York, NY. *presented by Wang HD
 26. Wang HD, **Swanson EW**, Cheng HT, et al. Vascularized composite allograft tolerance with transient high dose tacrolimus across a full MHC mismatch in a large animal model. American Transplant Congress 2016, June 2016, Boston, MA. *presented by Wang HD
 27. Sopko NA, Baetz N, Mathis R, Labroo P, Garrett C, **Swanson E**, Nahabedian M, Milner S, Granick MS. Regeneration of Full Thickness Hair-Bearing Skin in Chronic Refractory Wounds with an Autologous Homologous Skin Construct: Preclinical and Clinical Experience. American Professional Wound Care Association, September 8, 2018, Baltimore, MD. *presented by Sopko NA Winner of Best Podium Presentation Award
 28. Sopko NA, Mathis RK, Nahabedian M, Neumeister M, **Swanson E**, Granick MS. From Bench to Bedside: Full-Thickness Skin and Associated Dermal Appendages Regenerated in Complex Cutaneous Wounds Treated with an Autologous Homologous Skin Construct. 41st Annual Boswick Burn and Wound Symposium, February 6, 2019, Maui, HI. *presented by Sopko NA
 29. Munding GS, Sharma S, Patterson CW, Neumeister M, Nahabedian M, **Swanson E**, Sopko NA. Soft Tissue Reconstruction of Complex Lower Extremity Wounds Within Exposed Deep Structures Utilizing an Autologous Homologous Skin Construct in Pediatric Cases. 41st Annual Boswick Burn and Wound Symposium, February 7, 2019, Maui, HI. *presented by Munding GS
 30. Abouhassan W, Sopko NA, Mathis RK, Nahabedian M, Neumeister M, **Swanson E**, Granick MS, Partridge JL, Milner SM. Autologous Homologous Skin Construct Effectively Used as Novel Therapy to Completely Close Lower Extremity Chronic Wounds. Annual Meeting Mountain West Society of Plastic Surgeons, March 8, 2019, Squaw Valley, CA. *presented by Abouhassan W
 31. **Swanson EW**, Kumar K, Abdo JM, Sopko NA, Munding GS. Clinical case series: complex lower Extremity traumatic injuries closed with a novel autologous homologous skin construct. Rocky Mountain Trauma Society 63rd Annual Meeting, January 17, 2020, Snowmass Village, CO.

Posters

1. **Swanson EW**, Mascitelli J, Steifel M, Macmurtrie, E, Levine J, Kofke A, Yang W, LeRoux P. The effect of patient transport on brain oxygen in comatose patients. Congress of Neurological Surgeons Annual Meeting, September 2007, San Diego, CA.
2. Abramson MA, **Swanson EW**, Whang EE. Pancreatic adenocarcinoma with isolated local venous invasion: Does surgical resection confer a survival benefit? Digestive Disease Week, Society for Surgery of the Alimentary Tract Section 49th Annual Meeting, May 2008, San Diego, CA.
3. **Swanson EW**, Al Rakan M, Susarla SM, Rada E, Coon D, Santiago GF, Murphy R, Armand M, Liacouras P, Grant GT, Brandacher G, Lee WPA, Gordon CR. Complex surgical cutting guides for Le Fort-based, maxillofacial transplantation developed through preclinical, orthotopic swine transplants and human cadaver surgeries: An academic scholar update. American Association of Plastic Surgeons Annual Meeting, April 2014, Miami, FL.
4. Furtmüller G, Crane NJ, Luthra R, **Swanson EW**, Cheng HT, Oh BC, Otovic P, Garrett C, Elster E, Lee WPA, Brandacher G. Non-invasive imaging modalities for immune monitoring of vascularized composite allografts using a translational large animal model. The 2015 American Transplant Congress, May 2015, Philadelphia, PA. *presented by Furtmüller G
5. Munding GS, Sailon A, Tamagnini G, Nahabedian M, Neumeister M, Granick MS, **Swanson E**, Sopko NA. Full Closure of Complex Cutaneous Defects Using an Autologous Homologous Skin Construct in Acute Burns, Burn Reconstruction, Acute Trauma, and Chronic Wound Cases. 41st Annual Boswick Burn and Wound Symposium, February 2019, Maui, HI. *presented by Munding GS
6. Sopko N, Mathis R, Baetz N, Labroo P, Roth S, **Swanson E**, Nahabedian M, Milner S, Partridge JL. Neogenesis of full-thickness skin and

concomitant dermal appendages in acute wounds using novel autologous homologous skin construct therapy in preclinical and clinical settings. The Symposium on Advanced Wound Care Spring, May 2019, San Antonio, TX.
(http://www.eplasty.com/images/poster/bigposter/SAWC_preclinical%20clinical_Sopko_et_al_POSTER.pdf)