

Patrick Cole, M.D.

Plastic Surgeons of Northern Arizona 1020

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Board Certification

Board Certification in Plastic Surgery - November 2016

Society Memberships

American Society of Plastic Surgeons
Arizona Society of Plastic Surgeons
American Society for Surgery of the Hand
American Medical Association

Hospital Affiliations

Flagstaff Medical Center – Flagstaff, Arizona
Chief; Division of Plastic and Ear, Nose and Throat Surgery -January 1, 2019 to present
Member; Quality Improvement Committee -January 1, 2019 to present

Honors and Awards

Top Doctor 2019, Plastic and Reconstructive Surgery, Flagstaff, Arizona

Top Doctor 2018, Plastic and Reconstructive Surgery, Flagstaff, Arizona

Permanent Administrative Fellow, Orthopedic Surgery Hand Fellowship, Baylor College of Medicine Department of Orthopedic Surgery; August 2014-July 2015.

Molecular Surgeon Young Investigator Award, Department of Surgery, Baylor College of Medicine, Houston, Texas, Dec. 2007.

First Place in Surgical Research for *The Hepatic Immune Response to Escherichia Coli Infection*, 16th Annual Surgical Research Forum of the South Florida Chapter of the American College of Surgeons, April 2005.

University of Texas Southwestern Medical Center Representative to the American Medical Association, University of Texas Southwestern Medical School, 2001-2002.

Phi Beta Kappa Honor Society, Baylor University, 1999.

Most Outstanding Neuroscience Graduate (4.0 GPA), Baylor University, 1999.

Most Outstanding Academic Achievement in the Field of Neuroscience (4.0 GPA), Baylor University, 1999.

Dr. Michael E. DeBakey Summer Surgical Internship, Baylor College of Medicine; June-August 1998

Baylor University/ JR Schofield Scholarship: Baylor University Representative to Oxford Medical College, the University of Cambridge School of Clinical Medicine, and the Vienna Medical Academy; June-July 1998.

Education/ Surgical Training

<i>Orthopedic Hand Surgery Fellowship:</i>	2014-2015
Administrative Fellow	August 2014- July 2015
Department of Orthopedic Surgery	
Baylor College of Medicine	
Houston, Texas	
<i>Plastic Surgery Residency:</i>	2008-2014
Chief House Officer	July 2013- July
2014 Division of Plastic Surgery	
Baylor College of Medicine	
Houston, Texas	
<i>Post-doctoral Research Fellowship:</i>	2006-2008
Pediatric Plastic & Craniofacial Surgery	
Texas Children's Hospital	
Baylor College of Medicine	
Houston, Texas	
<i>Post-graduate Year 2:</i>	
General Surgery categorical resident	2005-2006
Jackson Memorial Hospital	
University of Miami	
Medical Center	
Miami, Florida	
<i>Internship:</i>	
General Surgery categorical resident	2004-2005
Jackson Memorial	
Hospital University	

of Miami Medical
Center
Miami, Florida

University of Texas
Southwestern Medical School
Dallas, Texas

MD with Distinction in
Research (2004): Hepatic
Transplant Immunology

Baylor University
Waco, Texas

Bachelor of Science in Neuroscience (1999)
Cum laude

Dissertation: The Hepatic Immune Response to *Escherichia Coli* Infection

Professional Experience

Laboratory Research Assistant: "T Cell and HIV Viral Load Response to Variable Regimens of Anti-Retroviral Medications," Primary Investigator: David Margoulis, MD, PhD., Department of Infectious Disease, The University of Texas Southwestern Medical Center, January- September 2000

Publications

- 1) Contemporary techniques for the correction of temporal hollowing: augmentation temporoplasty with the classic dermal fat graft. McNichols CH, Hatef DA, Cole P, Hollier LH, Thornton JF. J Craniofac Surg. 2012 May;23(3):e234-8.
- 2) A paradigm shift in correcting medial orbital fracture-related enophthalmos: volumetric augmentation through a lateral approach. McNichols CH, Hatef DA, Thornton JF, Cole PD, de Mitchell CA, Hollier LH Jr. J Craniofac Surg. 2012 May; 23(3):762-6.
- 3) Optimizing pediatric interdental fixation by use of a paramedian palatal fixation site. McNichols CH, Hatef DA, Cole PD, Hollier LH Jr. J Craniofac Surg. 2012 Mar;23(2):605-7.
- 4) A comparative, long-term assessment of four soft tissue substitutes. Cole PD, Stal D, Sharabi SE, Hicks J, Hollier LH Jr. Aesthet Surg J. 2011 Aug;31(6):674-81.
- 5) Is primary thinning of the anterolateral thigh flap recommended? Sharabi SE, Hatef DA, Koshy JC, Jain A, Cole PD, Hollier LH Jr. Ann Plast Surg. 2010 Dec;65(6):555-9.
- 6) Keloids: pathogenesis, clinical features, and management. Chike-Obi CJ, Cole PD, Brissett AE. Semin Plast Surg. 2009 Aug;23(3):178-84.
- 7) Laser therapy in ethnic populations. Cole PD, Hatef DA, Kaufman Y, Pozner JN. Semin Plast Surg. 2009 Aug;23(3):173-7.
- 8) Skin care in ethnic populations. Cole PD, Hatef DA, Taylor S, Bullocks JM. Semin

Plast Surg. 2009 Aug;23(3):168-72.

- 9) Facial clefting and oroauditory pathway manifestations in ankyloblepharon-ectodermal defects-cleft lip/palate (AEC) syndrome. Cole P, Hatef DA, Kaufman Y, Magruder A, Bree A, Friedman E, Sindwani R, Hollier LH Jr. *Am J Med Genet A*. 2009 Sep;149A(9):1910-5.
- 10) Refinements of the unilateral Millard technique: the Texas Children's Hospital Approach. Kaufman Y, Cole P, Hatef DA, Bruner TW, Hollier LH Jr, Stal S. *Plast Reconstr Surg*. 2009 Aug;124(2):612-4.
- 11) Treatment of prominent and constricted ear anomalies. Janz BA, Cole P, Hollier LH Jr, Stal S. *Plast Reconstr Surg*. 2009 Jul;124(1 Suppl):27e-37e.
- 12) Peripheral nerve injuries of the pediatric hand: issues in diagnosis and management. Kaufman Y, Cole P, Hollier L. *J Craniofac Surg*. 2009 Jul;20(4):1011-5.
- 13) Embryology of the hand and upper extremity. Cole P, Kaufman Y, Hatef DA, Hollier LH Jr. *J Craniofac Surg*. 2009 Jul;20(4):992-5.
- 14) Contemporary management of pediatric facial trauma. Hatef DA, Cole PD, Hollier LH Jr. *Curr Opin Otolaryngol Head Neck Surg*. 2009 Aug;17(4):308-14.
- 15) Popliteal pterygium: report of an anatomic variant. Cole P, Hatef DA, Kaufman Y, Hollier L. *Ann Plast Surg*. 2009 Jun;62(6):676-8.
- 16) Techniques in frontal sinus fracture repair. Cole P, Kaufman Y, Momoh A, Janz B, Hatef DA, Bullocks J, Hollier L. *Plast Reconstr Surg*. 2009 May;123(5):1578-9.
- 17) Facial gunshot wounds: trends in management. Kaufman Y, Cole P, Hollier LH Jr. *Craniofac Trauma Reconstr*. 2009 May;2(2):85-90.
- 18) Managing the pediatric facial fracture. Cole P, Kaufman Y, Hollier LH Jr. *Craniofac Trauma Reconstr*. 2009 May;2(2):77-83.
- 19) A novel occlusographic analysis for assessment of mandibular narrowing. Madjidi A, Cole P, Taylor TD. *J Craniofac Surg*. 2009 Mar;20(2):509-11.
- 20) Principles of pediatric mandibular fracture management. Cole P, Kaufman Y, Izaddoost S, Hatef DA, Hollier L. *Plast Reconstr Surg*. 2009 Mar;123(3):1022-4.
- 21) Fine-Lubinsky syndrome: managing the rare syndromic synostosis. Cole P, Hatef DA, Kaufman Y, Hollier LH Jr. *J Plast Reconstr Aesthet Surg*. 2010 Jan;63(1):e70-2.
- 22) A comparative, long term assessment of soft tissue substitutes: AlloDerm, Enduragen, and Dermamatrix. Gordley K, Cole P, Hicks J, Hollier L. *J Plast Reconstr Aesthet Surg*. 2009 Jun;62(6):849-50.
- 23) Non-involuting congenital hemangioma associated with high-output cardiomyopathy.

Cole P, Kaufman Y, Metry D, Hollier L. J Plast Reconstr Aesthet Surg. 2009 Oct;62(10):e379-82.

24) Optimizing miniplate fixation for simple mandibular fractures. Cole PD, Kaufman Y, Hatef DA, Hollier LH. Plast Reconstr Surg. 2009 Feb;123(2):691-3.

25) Principles of facial trauma: orbital fracture management. Cole P, Kaufman Y, Hollier L. J Craniofac Surg. 2009 Jan;20(1):101-4.

26) Pedicled TRAM flap unaffected by clindamycin hypersensitivity reaction. Hatef DA, Cole P, Heller L. J Plast Reconstr Aesthet Surg. 2009 Jul;62(7):e238-9.

- 27) External distraction osteogenesis in the pediatric mandible. Kaufman Y, Cole PD, McKnight A, Hatef DA, Hollier LH. *Plast Reconstr Surg.* 2009 Jan;123(1):339-41.
- 28) Bifid nose with cleft hand deformity: syndromic association or undescribed anomaly? Cole P, Kaufman Y, Hollier L. *J Craniofac Surg.* 2008 Nov;19(6):1594-6.
- 29) A modified keyhole technique for correction of macroglossia. Kaufman Y, Cole P, McKnight A, Hatef DA, Hollier L, Edmonds J. *Plast Reconstr Surg.* 2008 Dec;122(6):1867-9.
- 30) Distraction rate and latency: factors in the outcome of pediatric maxillary distraction. Higuera S, Cole P, Stephenson JB, Hollier L. *J Plast Reconstr Aesthet Surg.* 2009 Dec;62(12):1564-7.
- 31) Cheek reconstruction: current concepts in managing facial soft tissue loss. Heller L, Cole P, Kaufman Y. *Semin Plast Surg.* 2008 Nov;22(4):294-305.
- 32) Giant, congenital folliculosebaceous cystic hamartoma: a case against a pathogenetic relationship with trichofolliculoma. Cole P, Kaufman Y, Dishop M, Hatef DA, Hollier L. *Am J Dermatopathol.* 2008 Oct;30(5):500-3.
- 33) Craniosynostotic variations in syndromic, identical twins. Sher S, Cole P, Kaufman Y, Hatef DA, Hollier L. *Ann Plast Surg.* 2008 Sep;61(3):290-3
- 34) Nonoperative management of complex burn injuries. Stal D, Cole P, Hollier L. *J Craniofac Surg.* 2008 Jul;19(4):1016-9.
- 35) Ethical considerations in burn management. Cole P, Stal D, Hollier L. *J Craniofac Surg.* 2008 Jul;19(4):895-8.
- 36) Digital acrometastasis: a rare initial sign of occult pulmonary squamous cell carcinoma. Madjidi A, Cole P, Laucirica R. *J Plast Reconstr Aesthet Surg.* 2009 Oct;62(10):e365-7.
- 37) Phthiriasis palpebrarum: a common culprit with uncommon presentation. Pinckney J 2nd, Cole P, Vadapalli SP, Rosen T. *Dermatol Online J.* 2008 Apr 15;14(4):7.
- 38) The composite costochondral-iliac crest bone graft: a novel technique for temporomandibular joint reconstruction. Cole P, Crawford MH, Hollier LH, Taylor T. *J Oral Maxillofac Surg.* 2008 Jun;66(6):1299-301.
- 39) Improving the minimally invasive approach to mandible angle repair. Cole P, Rottgers SA, Cameron H, Hollier LH Jr. *J Craniofac Surg.* 2008 Mar;19(2):525-7.

- 40) Contemporary issues in facial gunshot wound management. Kaufman Y, Cole P, Hollier L. *J Craniofac Surg*. 2008 Mar;19(2):421-7.
- 41) Two hundred twenty-two consecutive pharyngeal flaps: an analysis of postoperative complications. Cole P, Banerji S, Hollier L, Stal S. *J Oral Maxillofac Surg*. 2008 Apr;66(4):745-8.
- 42) Orbitozygomatic fracture management. Kaufman Y, Stal D, Cole P, Hollier L Jr. *Plast Reconstr Surg*. 2008 Apr;121(4):1370-4.
- 43) The plight of children. Cole P, Hollier L. *J Craniofac Surg*. 2008 Jan;19(1):292-3.
- 44) Nasal trauma and the deviated nose. Higuera S, Lee EI, Cole P, Hollier LH Jr, Stal S. *Plast Reconstr Surg*. 2007 Dec;120(7 Suppl 2):64S-75S.
- 45) Comprehensive management of orbital fractures. Cole P, Boyd V, Banerji S, Hollier LH Jr.
- 46) Mental training in surgical education: a randomized, controlled trial. Cole P, Hollier L. *J Craniofac Surg*. 2007 Nov;18(6):1504-5.
- 47) Intraorbital arteriovenous malformation: issues in surgical management. Kaufman Y, Cole P, Dauser R, Hollier L Jr. *J Craniofac Surg*. 2007 Sep;18(5):1091-3.
- 48) Ensuring success in alveolar bone grafting: a three-dimensional approach. Craven C, Cole P, Hollier L Jr, Stal S. *J Craniofac Surg*. 2007 Jul;18(4):855-9.
- 49) Cole P, Sonabend M, Levy M. Laser Treatment of Pediatric Vascular Lesions. *Seminars in Plastic Surgery*. 2007 Oct; 21(3): 159-167.
- 50) Cole P, Hollier L. Literature Scan: Successful separation of craniopagus parasiticus. *Journal of Craniofacial Surgery*. 2007 May;18(3):711.
- 51) Cole P, Armenta A, Hollier L. Simplifying Soft Tissue Closure of the Large Meningomyelocele Defect: A Technical Note. *Journal of Plastic, Reconstructive, and Aesthetic Surgery*. 2007 Aug;54(6):592-596.
- 52) Banerji S, Bullocks J, Cole P, Hollier L. Irreducible distal interphalangeal joint dislocation: a case report and literature review. *Annals of Plastic Surgery*. 2007 Jun;58(6):683-5.
- 53) Stevens P, Downey C, Boyd V, Cole P, Stal S, Edmond J, Hollier L. Deformational plagiocephaly associated with ocular torticollis: a clinical study and literature review. *Journal of Craniofacial Surgery*. 2007 Mar;18(2):399-405.

- 54) Hollier L, Cole P. Vacuum-assisted closure for wound management in the pediatric population. *Journal of Craniofacial Surgery*. 2006 Nov;17(6):1263-4.
- 55) Hollier L, Cole P. Discussion: The influence of mandibular advancement surgery on oral function in retrognathic patients. *Journal of Craniofacial Surgery*. 2006 Nov;17(6):1263.
- 56) Hollier L, Cole P. Discussion: Postoperative radiographs after open reduction and internal fixation of the mandible: are they useful. *Journal of Craniofacial Surgery*. 2006 Nov;17(6):1263.
- 57) Cole P, Horn TW, Thaller S. The use of decellularized dermal grafting (AlloDerm) in persistent oro-nasal fistulas after tertiary cleft palate repair. *Journal of Craniofacial Surgery*. 2006 Jul;17(4):636-41.

Electronic Publications

- 1) Cole P, Edwards M, Hollier L, Stal S. Syndromes with Craniofacial Abnormalities. UpToDate [Epub] Jan 2007; Currently available at: *UpToDate*, Inc Online Publications.
- 2) Cole P, Edwards M, Hollier L, Stal S. Craniosynostosis Syndromes. UpToDate [Epub] Jan 2007; Currently available at: *UpToDate*, Inc Online Publications.
- 3) Cole P, Edwards M, Hollier L, Stal S. Facial Clefts and Holoprosencephaly. UpToDate [Epub] Jan 2007; Currently available at: *UpToDate*, Inc Online Publications.
- 4) Cole P, Boyd V, Edwards M, Hollier L, Stal S. Overview of Craniosynostosis. UpToDate [Epub] Jan 2007; Currently available at: *UpToDate*, Inc Online Publications.

Book Chapters

- 1) Cole P, Hammoudah J, Thaller S. *Soft Tissue Injuries to the Pediatric Face*. In Principles and Practice of Pediatric Plastic Surgery. Editors: Michael Bentz, MD, Bruce Bauer, MD and Ronald Zuker, MD. Accepted for publication.
- 2) Cole P, Hammoudah J. *Mandible Reconstruction*. In Practical Plastic Surgery. Editor: J. Sisko. Northwestern University Press. Accepted for publication.
- 3) Cole P, Stal S. *The Prominent Ear*. In Clinical Plastic Surgery. Editor: Taub. Submitted to Elsevier for publication.
- 4) Cole P, Stal S. *Ear Reconstruction*. In Clinical Plastic Surgery. Editor: Taub. Submitted to Elsevier for publication.

- 5) Cole P, Friedman C. *Nasal Development and Related Surgical Conditions. Craniofacial Growth and Development*. Editor: Mao. Submitted to Blackwell for publication.
- 6) Cole P, Bullocks J, Stal S. *The Skin and Subcutaneous Tissue*. In Schwartz: Principles of Surgery. Submitted for publication.

Abstracts and Presentations

International:

1. Higuera S, Cole P, Boyd V, Hollier L. Distraction Rate and Latency: Outcomes Following Pediatric Maxillary Distraction. *Proceedings of the XIIIth Congress of the International Society of Craniofacial Surgery, 2007.*
2. Gordley K, Cole P, Hollier L. a Comparative, Long Term Assessment of Soft Tissue Substitutes: AlloDerm, Enduragen, and Dermamatrix. *Proceedings of the XIIIth Congress of the International Society of Craniofacial Surgery, 2007.*
3. Cole P, Boyd V, Higuera S, Hollier L. Post-Operative Pain Management in Outpatient Pediatric Plastic Surgery. *Proceedings of the XIIIth Congress of the International Society of Craniofacial Surgery, 2007.*
4. Cole P, Higuera S, Hollier L. Postoperative Orthotic Helmet Use Following Cranial Vault Remodeling for Craniosynostosis. *Proceedings of the XIIIth Congress of the International Society of Craniofacial Surgery, 2007.*

National:

5. Cole P, Higuera S, Boyd V, Stal S. *Two Hundred and Twenty-Two Consecutive Pharyngeal Flaps: An Analysis of Postoperative Complications*. American Society of Plastic Surgery, Baltimore MD, October 25-28, 2007.
6. Cole P, Higuera S, Boyd V, Hollier L. *Distraction Rate and Latency: Factors in the Outcome of Pediatric Maxillary Distraction*. American Society of Plastic Surgery, Baltimore MD, October 25-28, 2007.
7. Cole P, Higuera S, Boyd V, Stal S. *Two Hundred and Twenty-Two Consecutive Pharyngeal Flaps: Abstract: Plastic and Reconstructive Surgery* Vol. 120, Number 1; pg 69A.
8. Cole P, Higuera S, Boyd V, Stal S. *Two Hundred and Twenty-Two Consecutive Pharyngeal Flaps: An Analysis of Postoperative Complications*. Plastic Surgery Research Council, Stanford CA, June 20-23, 2007.

9. Cole P, Higuera S, Boyd V, Hollier L. *Distraction Rate and Latency: Factors in the Outcome of Pediatric Maxillary Distraction*. American Cleft Palate Association, Denver CO, April 23-28, 2007.
10. Cole P, Higuera S, Boyd V, Stal S. *Two Hundred and Twenty-Two Consecutive Pharyngeal Flaps: An Analysis of Postoperative Complications*. American Cleft Palate Association, Denver CO, April 23-28, 2007.
11. Cole P, Maass D, Horton J. *Lip polysaccharide (LPS) Alters Cardiomyocyte Handling of Sodium/ Calcium*. Abstract: *Federation of the American Societies for Experimental Biology (FASEB) Journal*, 2002; Vol 16, 5: A1121.
12. Cole P, Maass D, Horton J. *Lip polysaccharide (LPS) Alters Cardiomyocyte Handling of Sodium/ Calcium*. Federation of the American Societies for Experimental Biology (FASEB) Conference, New Orleans, LA. 2002.

Regional:

13. Cole P, Higuera S, Boyd V, Stal S. *Two Hundred and Twenty-Two Consecutive Pharyngeal Flaps: An Analysis of Postoperative Complications*. Texas Society of Plastic Surgery, Bastrop TX, September 28-30, 2007.
14. Gordley K, Cole P, Hollier L. *A Comparative, Long Term Assessment of Soft Tissue Substitutes: AlloDerm, Enduragen, and Dermamatrix*. Texas Society of Plastic Surgery, Bastrop TX, September 28-30, 2007.
15. *The Use of Decellularized Dermal Graft (AlloDerm) in Persistent Oro-nasal Fistulas after Tertiary Cleft Palate Repair*. Florida Society of Plastic Surgeons 48th Annual Meeting, West Palm Beach, FL, December 3, 2004.
16. *Use of the Free Fibula Osseous Flap Following Resection of Extremity Malignancies*. Florida Society of Plastic Surgeons 48th Annual Meeting, West Palm Beach, FL, December 3, 2004.
17. *The Use of AlloDerm for Improved Long-term Projection Following Nipple-Areola Reconstruction*. Florida Society of Plastic Surgeons 48th Annual Meeting, West Palm Beach, FL, December 3, 2004.
18. Cole P, Franz N, Jeyarajah R. *The Hepatic Immune Response to Escherichia Coli Infection*; The 16th Annual Surgical Research Forum of the South Florida Chapter of the American College of Surgeons, Hollywood, FL, April 18, 2005.
19. Cole P, Franz N, Jeyarajah R. *The Hepatic Immune Response to Escherichia Coli Infection*; University of Texas Southwestern Medical Center 43rd Annual Medical Student Research Forum, Dallas, TX, May 2004.

20. Cole P, Maass D, Horton J. *Lipopolysaccharide (LPS) Alters Cardiomyocyte Handling of Sodium/Calcium*; University of Texas Southwestern Medical Center 41st Annual Medical Student Research Forum, Dallas, TX, December 2002.