





Boston Children's Hospital
Until every child is well™



Arin K. Greene, MD, MMSc
Laboratory Director; Director, Lymphedema Program
Professor, Harvard Medical School

 617-355-2306

 617-738-1657

 [Print Profile](#)

MEDICAL SERVICES

Specialties

Lymphedema

Vascular Malformations

Departments

Department of Plastic & Oral Surgery

Programs

Adolescent Breast Center

Lymphedema Program

Microtia Program

Vascular Anomalies Center

Languages

English

EDUCATION

Undergraduate Degree

University of Chicago , Chicago , Illinois

Graduate Degree

Translational Research, MMsC

Harvard Medical School , 2003 , Boston , Massachusetts

Medical School

University of Illinois College of Medicine , 1997 , Chicago , Illinois

Residency

General Surgery

Beth Israel Deaconess Medical Center , 2003 , Boston , MA

Residency

Plastic Surgery

Harvard Medical School , 2005 , Boston , MA

Residency

Chief Resident; Plastic Surgery

Harvard Medical School , 2006 , Boston , MA

Fellowship

Angiogenesis Research

Boston Children's Hospital/Harvard Medical School , 2003 , Boston , MA

Fellowship

Craniofacial/Pediatric Plastic Surgery

Boston Children's Hospital , Boston , MA

PROFESSIONAL HISTORY

One-fourth of Dr. Greene's academic time is protected for research, and he is responsible for directing our department's research laboratory. His primary research effort is focused on vascular anomalies, a group of pediatric disorders that affect arteries, capillaries, lymphatics, or veins. He is studying the relationship between hormones and the growth of vascular lesions. In addition, he is investigating the somatic mutation responsible for vascular anomalies as well as the cellular dysfunction in these lesions. The ultimate goal of his research is to determine the cause of vascular anomalies, as well as the mechanism for their growth, so that drug treatments may be developed for patients. Dr. Greene's second area of research focuses on the relationship between obesity and lymphedema. Finally, Dr. Greene is studying pediatric cranioplasty using a novel bone grafting technique (particulate bone graft) that the department has popularized.

Dr. Greene serves as an expert for the Department of Plastic Surgery for Boston Children's Hospital Precision Medicine Service. For more information about the Precision Medicine Service please visit [bostonchildrens.org/precisionmed](https://precisionmedicine.bostonchildrens.org/) (<https://precisionmedicine.bostonchildrens.org/>).

CERTIFICATIONS

American Board of Plastic Surgery

PUBLICATIONS

Publications powered by Harvard Catalyst Profiles (<https://connects.catalyst.harvard.edu/profiles/search/people>)

1. Krowchuk DP, Frieden IJ, Mancini AJ, Darrow DH, Blei F, Greene AK, Annam A, Baker CN, Frommelt PC, Hodak A, Pate BM, Pelletier JL, Sandrock D, Weinberg ST, Whelan MA. Clinical Practice Guideline for the Management of Infantile Hemangiomas. *Pediatrics*. 2019 Jan; 143(1). [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/30584062\)](http://www.ncbi.nlm.nih.gov/pubmed/30584062)
2. Bichsel CA, Goss J, Alomari M, Alexandrescu S, Robb R, Smith LE, Hochman M, Greene A, Bischoff J. Association of Somatic GNAQ Mutation With Capillary Malformations in a Case of Choroidal Hemangioma. *JAMA Ophthalmol*. 2018 Oct 25. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/30422215\)](http://www.ncbi.nlm.nih.gov/pubmed/30422215)
3. Goss JA, Maclellan RA, Greene AK. Primary Lymphedema of the Upper Extremities: Clinical and Lymphoscintigraphic Features in 23 Patients. *Lymphat Res Biol*. 2018 Oct 02. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/30280960\)](http://www.ncbi.nlm.nih.gov/pubmed/30280960)
4. Maclellan RA, Goss JA, Greene AK. Vascular Malformation Enlargement During Menopause. *J Craniofac Surg*. 2018 Jul; 29(5):1271-1272. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29521760\)](http://www.ncbi.nlm.nih.gov/pubmed/29521760)
5. Greene AK, Goss JA. Vascular Anomalies: From a Clinicohistologic to a Genetic Framework. *Plast Reconstr Surg*. 2018 05; 141(5):709e-717e. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29697621\)](http://www.ncbi.nlm.nih.gov/pubmed/29697621)
6. Greene AK, Goss JA. Diagnosis and Staging of Lymphedema. *Semin Plast Surg*. 2018 Feb; 32(1):12-16. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29636648\)](http://www.ncbi.nlm.nih.gov/pubmed/29636648)
7. Maclellan RA, Konczyk DJ, Goss JA, Greene AK. Analysis of Follicle-Stimulating Hormone Receptor in Infantile Hemangioma. *Ann Plast Surg*. 2018 Apr; 80(4 Suppl 4):S211-S213. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29596087\)](http://www.ncbi.nlm.nih.gov/pubmed/29596087)
8. Goss JA, Greene AK. Congenital Vascular Tumors. *Otolaryngol Clin North Am*. 2018 Feb; 51(1):89-97. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29217070\)](http://www.ncbi.nlm.nih.gov/pubmed/29217070)
9. Konczyk DJ, Goss JA, Maclellan RA, Greene AK. Association between extremity kaposiform hemangioendothelioma and lymphedema. *Pediatr Dermatol*. 2018 Jan; 35(1):e92-e93. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29266383\)](http://www.ncbi.nlm.nih.gov/pubmed/29266383)
10. Greene AK, Voss SD, Maclellan RA. Liposuction for Swelling in Patients with Lymphedema. *N Engl J Med*. 2017 11 02; 377(18):1788-1789. [View abstract \(http://www.ncbi.nlm.nih.gov/pubmed/29091562\)](http://www.ncbi.nlm.nih.gov/pubmed/29091562)

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LOCATIONS

Boston

Department of Plastic & Oral Surgery
300 Longwood Avenue, Hunnewell, 1st Floor
Boston, Massachusetts 02115
Contact: 617-355-7252

Peabody

Boston Children's Hospital at Peabody
10 Centennial Drive
Peabody, Massachusetts 01960
Contact: 781-216-3400

Waltham

Department of Plastic and Oral Surgery
Boston Children's Hospital at Waltham, 9 Hope Avenue
Waltham, Massachusetts 02453
Contact: 781-216-1600
