

## CURRICULUM VITAE

### PART I: GENERAL INFORMATION

**DATE PREPARED:** MAY 1, 2006

**NAME:** Joseph Upton, M.D.

#### Education:

1966	A.B.	Yale University, New Haven, CT
1970	M.D.	Baylor College of Medicine, Houston, TX

#### Postdoctoral Training:

1970-71	Intern in Surgery	Yale-New Haven Hospital, New Haven, CT
1971-72	Resident in General Surgery	Yale-New Haven Hospital, New Haven, CT
1972-74	Resident in Orthopedics	Eisenhower Medical Center, Augusta, GA
1974-76	Resident in Plastic Surgery	St. Joseph Hospital, Houston, TX
1976-77	Fellowship in Hand Surgery	The Roosevelt Hospital, New York, NY

#### Licensure and Certification:

1972	Connecticut Department of Health Services #14410 (expired 1983)
1974	Texas Board of Medical Examiners #D7345 (expired 2003)
1977	Commonwealth of Massachusetts #41025
1990	Colorado Board of Medical Examiners # 30583 (expired 2005)
1981	American Board of Plastic and Reconstructive Surgery #2442
1992	Certificate of Added Qualification in Surgery of the Hand

#### Academic appointments:

1977	Assistant Instructor in Surgery	Harvard Medical School, Boston, MA
1980	Assistant Professor in Surgery	Harvard Medical School, Boston, MA
1990	Assoc. Clinical Professor of Surgery	Harvard Medical School, Boston, MA

**Hospital appointments:**

1977-	Senior Associate in Plastic Surgery	Children's Hospital, Boston, MA
1977-86	Chief of Plastic Surgical Section,	VA Medical Center, West Roxbury, MA
1977-88	Surgeon (Plastic Surgery)	Brigham and Women's Hospital, Boston, MA
1980-	Courtesy Staff	New England Deaconess Hospital, Boston, MA
1980-	Consulting Staff	Mount Auburn Hospital, Cambridge, MA
1988-99	Courtesy Staff	Brigham and Women's Hospital, Boston, MA
1988-97	Surgeon in Plastic Surgery	Beth Israel Hospital, Boston, MA
1988-	Courtesy Staff	New England Baptist Hospital, Boston, MA
1988-	Courtesy Staff	Franciscan Children's Hospital, Boston, MA
1990-05	Courtesy Staff	Faulkner Hospital, Jamaica Plain, MA
1991-04	Limited Staff	Denver Children's Hospital, Denver, CO
1997-	Surgeon in Plastic Surgery	Beth Israel Deaconess Medical Center, Boston, MA
2002-	Associate in Plastic Surgery	Shriners Hospital, Boston, MA

**Major committee assignments:**

1986-92	Board of Trustees, The Boston Medical Library, Harvard Medical School
1988-89	President, New England Society for Plastic and Reconstructive Surgery
1991-93	President, New England Hand Society

**Professional Societies:**

American Academy of Pediatrics, Surgical Section (member through December, 2000)  
 American Association For Hand Surgery  
 American Association of Plastic Surgeons  
 American College of Surgeons (member through December, 2000)  
 American Society for Peripheral Nerve  
 American Society of Plastic and Reconstructive Surgeons, Inc.  
 American Society for Reconstructive Microsurgery  
 American Society for Surgery of the Hand  
 Board of Directors, Helping Hands Foundation  
 Boston Medical Library, Harvard Medical School  
 Boston Hand Club  
 Boston Surgical Society  
 Congenital Anomalies Study Group  
 Countway Associates(Francis F. Countway Library)  
 Cronin and Brauer Society  
 Hunley Society (Plastic Surgery Travel Club)  
 International Congress of Plastic and Reconstructive Surgery  
 International Federation of Societies for Surgery of the Hand  
 International Society of Leech Scientists  
 J.W. Littler Society  
 Massachusetts Medical Society  
 Massachusetts Society of Plastic Surgery, Inc.  
 New England Hand Society  
 New England Society of Plastic and Reconstructive Surgeons, Inc.  
 Northeastern Society of Plastic Surgeons (member through December, 2000)

**Editorial Boards:**

1977-	Plastic and Reconstructive Surgery, Guest Reviewer
1988-	Annals of Plastic Surgery, Guest Reviewer
1989-	Journal of Reconstructive Microsurgery, Editorial Board
1990-	Microsurgery, Guest Reviewer
1991-	ASSH, Updates in Hand Surgery, Editorial Board
1994-	Journal of Bone and Joint Surgery, Reviewer
1994-	Journal of Tissue Engineering, Editorial Board
1995-	Yearbook of Hand Surgery, Contributing Editor
1997-03	Plastic and Reconstructive Surgery, Associate Editor

**Awards and honors:**

Year	Award	Institution
1998	James Barrett Brown Award	Washington University, St Louis, MO
1999	Clinician of the Year	American Assoc of Plastic Surgeons

In 1998, Dr. Upton was the recipient of the James Barrett Brown Award given for the outstanding paper which appeared in the Journal of Plastic and Reconstructive Surgery in the previous year. This award was in recognition of work in tissue engineering. During 1998, Dr. Upton was a visiting professor and delivered named lectures at the Barnes Jewish Children's Hospital in St. Louis, MO; Children's Hospital and the Hospital for the University of Pennsylvania in Philadelphia, PA; and the Baylor University College of Medicine in Houston, TX.

**PART II: RESEARCH, TEACHING AND CLINICAL CONTRIBUTIONS****A. Narrative report**

For the past 10 years, Dr. Upton has been working in collaboration with the Vacanti Lab in the Enders Building. Primary research interests have been with engineering of cartilage and/or bone composites. Additional studies have been done with the tissue engineering of small blood vessels. At the present time, one surgical resident is working in the Vacanti Lab, as well as the Folkman Lab, on tissue engineering of small blood vessels. These present projects are on a grant (\$80,000) funded by the Reprogenesis Company over a 2-year period. Collaborative programs have also been concluded on tissue engineering with the Urology Service. Collaborative studies are also being done regarding the genetics of hand malformations with the Bjorn Olsen Lab in the Department of Molecular Biology at the Harvard Medical School. A hand registry is maintained by Dr. Upton's staff on congenital malformations of the upper limb. There are approximately 8 additional clinical research projects being done by surgical residents and/or fellows under the direction of Dr. Upton.

**C. Report of Current Research Activities**

1. Pediatric upper limb surgery with special emphasis upon congenital malformations.
2. Tissue engineering with special emphasis on structural materials (bone and cartilage).  
Surgical casework featured in lead articles in:
  - a. Arnst C, Carey J. Biotech Bodies. Business Week, July 27, 1998:56-63
  - b. Hirshberg C. The Body Shop. Life Magazine Special Edition, Fall, 1998:50-56.
3. Genetics of limb bud formation and embryology.

**D. Report of teaching**

- 1977-87 Monthly Hand Clinic, Spinal Cord Injury Service, Veterans Administration Medical Center West Roxbury, MA
- 1977- Combined Plastic-Orthopedic Hand Clinic, (Weekly) The Children's Hospital, Boston, MA
- 1977-88 Director of Hand and Microvascular Fellowship Program, Brigham and Women's and Children's Hospital, Boston, MA
- 1977- Presenter at Grand Rounds at local hospitals (average 7 lectures per year)
- 1977- Invited speaker at national and international seminars (average 3 per year)
- 1982- Instructor at National and International courses on Microsurgery and Hand Surgery (average 2 per year)
- 1988- Director of Hand and Microvascular Fellowship Program, New England Deaconess and Beth Israel Hospitals, Boston, MA
- 1997- Program Director of the Microsurgery Section, Division of Plastic Surgery, Beth Israel Deaconess Medical Center, Boston, MA

## 1. Local contributions:

## a. Medical School

- 1977- Daily rounds and operations with medical students, residents and fellows
- 1977-85 Gross Anatomy Course, Upper Limb Section, Harvard Medical School

## b. Graduate Medical Courses

- 1977-87 Weekly rounds and teaching conference at the Veterans Administration Medical Center, West Roxbury, MA

**PART III: BIBLIOGRAPHY**Original Articles

1. Bricker DL, Upton J, Telford JR. Blunt trauma to the chest. *Texas Medicine* 1972;68:74-83.
2. Upton J, Flagg SV. Early complications and results of fingertip injuries. *Conn Med* 1972; 36:515-19.
3. Cronin TD, Upton J, McDonough J. Reconstruction of the breast after mastectomy. *Plast Reconstr Surg* 1977;59:1-14. Reprinted in *Med J, St. Joseph's Hospital*. 1977;12:103-115.
4. Biggs TM, Upton J, Cronin TD. Breast reconstruction: how the general surgeon can help the plastic surgeon. *Texas Medicine* 1978;74:53-8.
5. Cronin TD, Upton J. Lengthening of the short columella associated with bilateral cleft lip. *Annals Plastic Surgery* 1978;1:75-95.
6. Thompson J, Littler JW, Upton J. The spiral oblique retinacular ligament (SORL). *J Hand Surgery* 1978;3:482-7.
7. Upton J. Problems of major extravasation injuries. *Pharm and Ther Rev of the Peter Bent Brigham Hospital* Vol. III, 9:1-4, August:1979.

8. Upton J, Mulliken JB, Murray JE. Major intravenous extravasation injuries. *Am J Surg* 1979; 137:497-506.
9. Upton J, Littler JW, Eaton RG. Primary care of the injured hand, Part I. *Post Graduate Medicine* 1979;66:115-22.
10. Upton J, Littler JW, Eaton RG. Primary care of the injured hand, Part II. *Post Graduate Medicine* 1979;66:127-31.
11. Malerich NM, Eaton RG, Upton J. Complete dislocation of a little finger metacarpal phalangeal joint treated by closed technique. *J Trauma* 1980;20:424-5.
12. Upton J, Mulliken JB, Hicks PD, Murray JE. Restoration of facial contour using free vascularized omental transfer. *J Plast Reconstr Surg* 1980;66:560-7.
13. Upton J, Sohn SA, Glowacki J. Neocartilage derived from transplanted perichondrium: What is it? *Plast Reconstr Surg* 1981;68:166-72.
14. Upton J. A discussion of "duplicated thumb". *Plast Reconstr Surg* 1982;69:480-1.
15. Upton J. A discussion of "Correction of Postburn Syndactyly: An Analysis of children with Introduction of VM Plasty and Post-operative Pressure Inserts." *Plast Reconstr Surg* 1982; 70:353-4.
16. Bunkis J, Mulliken JB, Upton J, Murray JE. The evolution of techniques for reconstruction of full thickness cheek defects. *Plast Reconstr Surg* 1982;70:319-27.
17. Cremone JC, Upton J. Poland's syndrome. *Plast Reconstr Surg* 1982;70:516.
18. Linder RE, Upton J, Osteen R. Management of extensive doxorubicin hydrochloride extravasation injuries. *J Hand Surg* 1983;8:32-8.
19. Upton J, Schuster S, Colodny A, Murray J. Testicular autotransplantation in children. *The Am J of Surg* 1983;145:514-29.
20. Seckel BR, Upton J, Jones HR, Murray JE. Rapid regeneration of the chronically damaged facial nerve following ipsilateral free gracilis transfer. *Plast Reconstr Surg* 1983;71:845-52.
21. Linder R, Upton J. Prevention of pressure sores. *Surg Rounds* 1983;23:42-55.
22. Upton J, Murray JE. A discussion of "Congenital Scalp Defect with Distal Limb Anomalies: Brachydactyly and Hypoplastic Toes." *Plast Reconstr Surg* 1983;72:712.
23. Upton J, Boyajian M, Mulliken JB, Glowacki J. The use of demineralized xenogeneic bone implants to correct phalangeal defects: a case report. *J Hand Surg* 1984;9A:388-91.
24. Boyd JB, Mulliken JB, Kaban LB, Upton J, Murray JE. Skeletal changes associated with vascular malformations. *Plast Reconstr Surg* 1984;74:789-95.

25. Hastings H, Simmons BP, Upton J. Hand fractures in children. *Clinical Orthopedics* 1984; 188:120-30.
26. Linder RM, Upton J. Prevention of extravasation injuries secondary to doxorubicin. *Post Grad Med* 1985;77:105-14.
27. Brent B, Upton J, Acland RD, Shaw WW, Finseth FJ, Rogers C, Pearl RM, Hentz VR. Experience with the temporoparietal facial free flap. *Plast Reconstr Surg* 1985;76:177-88.
28. Upton J, Kaban LB. A discussion of "Functional Oromandibular Reconstruction with the Microvascular Composite Groin Flap." *Plast Reconstr Surg* 1985;76:826-28.
29. Upton J, Mulliken JB, Murray JE. Classification and rationale for management of vascular anomalies in the upper extremity. *J Hand Surg* 1985;10A:970-75.
30. Kaban LB, Upton J. Cross mental nerve graft for restoration of lip sensation after inferior alveolar nerve damage: report of a case. *J Oral Maxillofac Surg* 1986;44:649-51.
31. Upton J. A discussion of "Surgical Anatomy and Blood Supply of the Fascial Layers of the Temporal Region". *Plast Reconstr Surg* 1986;77:25-8.
32. Mustoe T, Upton J, Marcellino V, Tan CJ, Rossier AB, Hachend HJ. Carcinoma in chronic pressure sores: a fulminate disease process. *Plast Reconstr Surg* 1986;77:116-21.
33. Upton J. A discussion of "Early Intervention in Apert's Syndactyly" *Plast Reconstr Surg* 1986;77:286-7.
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39. Upton J, Mutimer KL, Loughlin K, Ritchie J. Penile reconstruction using the lateral arm flap. *Jour Royal College of Surgeons, Edinburgh* 1987;32:97-101.
40. Banis JC, Upton J. Anesthetic considerations in microsurgical free tissue transfer. *Advances in Plastic Reconstructive Surgery, Yearbook Medical Publishers* 1988;4:275-320.

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55. Upton J. A discussion of "Prefabricated flaps using tissue expanders: An experimental study in rats". *J Plast Reconstr Surg* 1993;91(6):1108-9.
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57. Upton J. Recent trends in congenital hand surgery. *Adv Plast Surg* 1990;6:53-124.

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60. Upton J, Glowacki J. Hand reconstruction with demineralized bone: a series of 26 implants in 12 patients. J Hand Surg 1992;17A(4):704-13.
61. Clarke HM, Upton J, Zuker RM, Manktelow RT. Pediatric free tissue transfer: an assessment of 99 cases. Canadian J Surg 1993;36(6):525-8.
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65. Khouri R, Upton J, Shaw WW. Prefabrication of composite free flaps through staged microvascular transfer: experimental and clinical study. J Plast Reconstr Surg 1991;87:108-15.
66. Mah J, Kasser J, Upton J. The foot in the Apert syndrome. Clin Plast Surg 1991;18:391-8.
67. Upton J, Fereshetian S. The anatomy and management of the thumb in the Apert syndrome. Clin Plast Surg 1991;18:365-80.
68. Kasser J, Upton J. The shoulder, elbow, and forearm in the Apert syndrome. Clin Plast Surg 1991;8:381-9.
69. Upton J. Appendix, Apert bibliography. Clin Plast Surg 1991;18:417-31.
70. Upton J. Classification and pathologic anatomy of limb anomalies (in the Apert syndrome). Clin Plast Surg 1991;18:321-55.
71. Khouri RK, Upton J. Bilateral lower limb salvage with free flaps in a patient with sickle cell ulcers. Ann Plast Surg 1991;27(6):574-6.
72. Vacanti CA, Cima LG, Ratkowski D, Upton J., Vacanti JP. Tissue engineered growth of new cartilage in the shape of a human ear using synthetic polymers seeded with chondrocytes. In: Cima LG, Ron ES, eds. Tissue-Inducing Biomaterials, Materials Research Soc. Symposium Proceedings (Vol 252). Pittsburgh: Materials Research Society, 1992;367-74.
73. Havlik R, Upton J. Hand and upper limb problems in the pediatric musician. J Hand Therapy 1992;5(2):111-18. Revised and reprinted in Medical Problems of Performing Artists. 1996; 11(2):56-63.

74. Henderson KH, Everts EA, Upton J. Peripheral veno-arterial shunting during pediatric orthotopic liver transplantation. *J. Anes* (In press)
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78. Upton J, Khouri R, Havlik R. Refinements in hand coverage with microvascular free flaps. *Clin Plast Surg* 1992;19:841-57.
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89. Upton J, Baker, TM, Shoen SL, Wolfort F. Fascial flap coverage of achilles tendon defects. *J Plast Reconst Surg* 1995;95(6):1056-61.

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95. Coombs CJ, Upton J, Mulliken JB, Burrows P, Hergrueter C. Vascular malformations of the upper limb: a review of 209 patients. *J Hand Surg* (In Press)
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124. Isogai N, Landis WJ, Mori R, Gotoh Y, Gerstenfeld LC, Upton J, Vacanti JP. Experimental use of fibrin glue to induce site-directed osteogenesis from cultured periosteal cells. [Submitted]
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