

## 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.
34. Upton J, Rogers C, Durham-Smith G, Swartz W. Clinical applications of free temporoparieta flaps in hand reconstruction. *J Hand Surg* 1986;11(A):475-83.
35. Seckel BR, Upton J, Freidberg SE, Gilbert KP, Murray JE. Pedicled myocutaneous flap of latissimus dorsi muscle for reconstruction of anterior and middle skull defects: an alternative. *Head and Neck Surg* 1986;81:165-8.
36. Adler JR, Upton J, Wallman J, Winston KR. Management and prevention of necrosis of the scalp after embolization and surgery for meningioma. *Surgical Neurology* 1986;25:357-60.
37. Mutimer KL, Banis JC, Upton J. Microsurgical reattachment of totally amputated ears. *Plast Reconstr Surg* 1987;79:535-40.
38. Upton J. Leeches. *Plast Reconstr Surg*. 1987;79:311.
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.

41. Krarup C, Upton J. Electrophysical investigation of aberrant reinnervation after complete severance and reattachment of the upper extremity muscle and nerve. *Muscle and Nerve* 1988; 10:646.
42. Upton J, Mutimer KL. A modification of the great toe transfer for thumb reconstruction. *Plast Reconstr Surg* 1988;82:535-8.
43. Sardo MJ, Upton J, Jones HR, Seckel B R. Spontaneous reinnervation of a free muscle flap. An argument for nerve implantation. *Muscle and Nerve* 1988;11:908-14.
44. Tan CG, Upton J. The paraplegic hand: electrodiagnostic studies and clinical findings. *J Hand Surg* 1988;13(A):716-19.
45. Mustoe T, Upton J, Murray JE. Head and neck free flaps. Are they safe in the irradiated or pediatric patient? *Head and Neck Surgery* 1988;10:S3-S11.
46. Upton J. Expansion/augmentation of the hypoplastic forearm. *Russian J Microsurg* .
47. Warner KG, Durham-Smith G, Butler MD, Affinger CE, Upton J, Khurd SF. Comparative response to muscle and subcutaneous tissue pH during arterial and venous occlusion in musculo-cutaneous flaps. *Ann Plast Surg* 1989;22:108-16.
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49. Dreyer EB, Upton J, LoVerme W, Oh S. Flaps from flaps: the use of free scapular flap to resurface multiple areas of soft tissue loss in the hand. *Russian J Microsurg*. (in press).
50. Upton J, Mutimer KL. A convenient infant tourniquet. *Plast Reconstr Surg* 1989;83:171-2.
51. Kantor WR, Upton J. Pacifier polydactyly: a transitional form between pedunculated polydactyly and rudimentary polydactyly. *Plast Reconstr Surg* 1989;84:136-9 .
52. Shamberger RC, Welch KJ, Upton J. Surgical treatment of thoracic deformity in Poland's syndrome. *J Pediatr Surg* 1989;24(8):760-66.
53. Krarup C, Upton J, Creager MA. Nerve regeneration and reinnervation after limb amputation and replantation: clinical and physiological findings. *Muscle and Nerve* 1990;1:1-14.
54. Upton J, Tan C. Correction of constriction rings. *J Hand Surg* 1991;16(A):947-53.
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.
56. Upton J, Khouri R, Ramos D, Micheli L. Distraction lengthening for the congenitally short metatarsal: a case report. *Foot and Ankle* 1989;10:184-7.
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.
62. Upton J, Mulliken JB, Albin R, Murray JE. The use of scapular and parascapular flaps for cheek reconstruction. Plast and Reconstr Surg 1992;90(6):959-71.
63. Upton J, Carney M, Wolf J. The Salter-Harris Type I injury in the child: a commonly missed fracture. J Hand Surg (In press)
64. Rand F, Shapiro F, Upton J, Fereshetian S. Distraction osteogenesis in the rabbit tibia. Orthop Res. (In press)
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)
75. Falco NA, Upton J. Infantile digital fibromas. *J Hand Surg* 1995;20A(6):1014-20.
76. Upton J, Sampson C, Havlik R, Gorlin JB, Wayne A. Acquired arteriovenous fistulas in children. *J Hand Surg* 1994;19A(4):656-8.
77. Upton J, Havlik R. Distraction lengthening in the upper limb: long term follow-up of 74 lengthenings. *J Hand Surg* (Submitted)
78. Upton J, Khouri R, Havlik R. Refinements in hand coverage with microvascular free flaps. *Clin Plast Surg* 1992;19:841-57.
79. Khouri R, Upton J, Shaw WW. Principles of flap prefabrication. *Clin Plast Surg* 1992;19:763-71.
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85. Puelacher WC, Kim WS, Vacanti JP, Schloo B, Mooney D, Vacanti C, Upton J. Tissue-engineered growth of cartilage: the effect of varying the concentration of chondrocytes seeded onto synthetic polymer matrices. *Int J Oral Maxillofac Surg* 1994; 23:49-53.
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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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92. Shoen SL, Upton J. Thumb duplication: Critical analysis and long term follow up. *Plast Reconstr Surg (In Press)*
93. Upton J, Havlik RJ, Coombs CJ. Use of forearm flaps for the severely contracted first web space in children with congenital malformations. *J Hand Surg 1996;21A(3):470-7.*
94. Poblete V, Upton J, Wolfort F, Madras P. Digital gangrene in the adult patient. *Ann Plast Surg (In preparation)*
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)*
96. Vacanti CA, Upton J. Tissue-engineered morphogenesis of cartilage and bone by means of cell transplantation using synthetic biodegradable polymer matrices. *Clin Plast Surg 1994; 21(3): 445-62.*
97. Kim WS, Vacanti JP, Cima L, Mooney D, Upton J, Puelacher WC, Vacanti CA. Cartilage engineered in predetermined shapes employing cell transplantation on synthetic bio-degradable polymers. *J Plast Reconstr Surg 1994;94(2):233-7.*
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100. Benson LS, Waters PM, Kamil NI, Simmons BP, Upton J. Camptodactyly: Classification and results of nonoperative treatment. *J Pediatr Ortho 1994;14:814-9.*
101. Colon F, Upton J. Pediatric hand tumors: A review of 349 cases. *Hand Clinics 1995; 11(2):223-43.*
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104. Russell RC, Khouri RK, Upton J, Jones TR, Bush K, Lantieri LA. The expanded scapular flap. *J Plast Reconstr Surg 1995;96(4):884-95.*

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