

## CURRICULUM VITAE

**Date of this revision:** 9/15/2012

**Name:** J. Grant Thomson, M.D., M.Sc.

**Education:** B.Sc. Honors Physics, McGill University, 1978  
M.D., C.M. McGill University, 1983  
M.Sc. Experimental Surgery, McGill University, 1988

### Career/Academic Appointments:

1983-84 Intern, Surgery, Montreal General Hospital, Montreal, Quebec  
1984-85 Resident, Surgery, Montreal General Hospital, Montreal, Quebec  
1985-86 Research Fellow, Microsurgical Laboratories, Royal Victoria Hospital, Montreal, Quebec  
1986-87 Resident, Surgery, Montreal General Hospital, Montreal, Quebec  
1987-88 Chief Resident, Surgery, Montreal General Hospital, Montreal, Quebec  
1988-90 Resident, Plastic Surgery, McGill University Affiliated Hospitals, Montreal, Quebec  
Jan-June 1991 Hand and Microsurgery Fellow, Washington University Medical Center, St. Louis, MO  
1991-1993 Attending Surgeon, Plastic Surgery, Centre hospitalier Anna Laberge, Chateauguay, Quebec  
1993-1999 Assistant Professor, Department of Surgery, Yale University School of Medicine, New Haven, CT  
1996-present Adjunct Clinical Assistant Professor, Quinnipiac College, Hamden, CT  
1999-2012 Associate Professor, Department of Surgery, Yale University School of Medicine, New Haven, CT  
2012- present Professor, Department of Surgery, Yale University School of Medicine, New Haven, CT

### Administrative Positions:

1993-2002 Chief, Section of Plastic Surgery, VA Connecticut, West Haven and Newington, CT  
1997-present Program Director, Yale Hand and Microsurgery Fellowship, Yale Univ., School of Medicine, New Haven, CT

### Board Certification:

Royal College of Surgeons of Canada, General Surgery, 1988  
American Board of Surgery, Surgery, 1989  
Royal College of Surgeons of Canada, Plastic Surgery, 1990  
Corporation Professionnelle des Médecins du Québec, Plastic Surgery, 1990  
American Board of Surgery, Certificate of Added Qualifications in Surgery of the Hand, 1994, recertified 2004  
American Board of Plastic Surgery, Plastic Surgery, 1995, recertified 2004

## Professional Honors & Recognition

### A) International/National/Regional

2003-2011: Best Doctors in America  
2003-present: Fellow, American Association of Plastic Surgeons  
2000-2011: Best Doctors in New York  
1988: Clinical Research 1<sup>st</sup> Prize, Montreal General Hospital  
1987: Clinical Research 1<sup>st</sup> Prize, Montreal General Hospital

### B) University

2003: Resident award for distinguished teaching, section of plastic surgery  
1999: Resident award for distinguished teaching, section of plastic surgery

## Grant History:

Agency: Smith & Nephew  
Title: "Prevention of Seroma Formation and Wound Complications using the VAC Device"  
P.I.: Grant Thomson, M.D.  
Percent effort: 5%  
Total costs for project period: \$120,250 (plus \$194,031 donated supplies)  
Project period: 07/01/2011 – 06/30/2012

Agency: Plastic Surgery Foundation and American Society for Surgery of the Hand  
Title: "Altering Tendon Biomechanics after Flexor Tendon Repair"  
P.I.: Grant Thomson, M.D.  
Percent effort: 5%  
Total costs for project period: \$10,000  
Project period: 07/01/2011 – 06/30/2012

Agency: Plastic Surgery Educational Foundation  
Title: "Waveform Analysis Applied to Pulse Oximetry and Laser Doppler Flowmetry"  
P.I.: Grant Thomson, M.D.  
Percent effort: 10%  
Total costs for project period: \$6000  
Project period: 07/01/1999 – 06/30/2000

Agency: Lipoplasty Society of North America  
Title: "Adipocyte Regulation of Angiogenesis"  
P.I.: Richard Restifo, M.D.  
Role on Project: Co-investigator  
Percent effort: 5%  
Total costs for project period: \$5000  
Project period: 07/01/1998 – 06/30/1999

Agency: Plastic Surgery Educational Foundation  
Title: "Effect of Cyclic Tension on Rat Tail Tenocytes"  
P.I.: Grant Thomson, M.D.  
Percent effort: 5%

Total costs for project period: \$7000  
Project period: 07/01/1997 – 06/30/1998

Agency: American Association for Hand Surgery  
Title: "Effect of Cyclic Tension on Rat Tail Tenocytes"  
P.I.: Grant Thomson, M.D.  
Percent effort: 5%  
Total costs for project period: \$4000  
Project period: 07/01/1997 – 06/30/1998

Agency: Department of Surgery, Yale University School of Medicine  
Title: "The Use of Microdialysis to Measure the Metabolic Effects of Ischemic Preconditioning on Skin and Myocutaneous Flaps"  
P.I.: Grant Thomson, M.D.  
Percent effort: 5%  
Total costs for project period: \$5000  
Project period: 07/1/1997 – 06/30/1998

Agency: Plastic Surgery Educational Foundation  
Title: "The Effect of Continuous Injection of Nerve Growth Factor on the Regeneration of Nerves Across a Gap"  
P.I.: Grant Thomson, M.D.  
Percent effort: 10%  
Total costs for project period: \$5000  
Project period: 07/01/1996 – 06/30/1997

Agency: Department of Surgery, Yale University School of Medicine  
Title: "The Effect of Prolonged Clamping and Vascular Stasis on Free Flap Thrombosis"  
P.I.: Grant Thomson, M.D.  
Percent effort: 10%  
Total costs for project period: \$5000  
Project period: 07/1/1995 – 06/30/1996

Agency: Department of Surgery, Yale University School of Medicine  
Title: "Surface Area Measurement of the Female Breast: Correlation with Breast Volume and Aesthetic Shape"  
P.I.: Grant Thomson, M.D.  
Percent effort: 10%  
Total costs for project period: \$5000  
Project period: 07/1/1993 – 06/30/1994

**Lectures, Courses, Web-based Education:**

- 2010: Neurology Lecture Series. Yale University: "Brachial Plexus Injury"
- 2010: YNH Wellnes Lecture Series, Shoreline Hospital: "Carpal Tunnel Syndrome"
- 2008: Covidien Surgical Training Lecture Series: "Plastic Surgery"
- 2006: Gynecology Oncology lecture series, Yale University: "Surgical Reconstruction"
  
- 2006: MicroAire Instructional Course: "Endoscopic Carpal Tunnel Release."

- 2006: New England Society of Radiation Therapists Annual Meeting: "Treatment of Radiation-Induced Wounds"
- 2003: MicroAire Instructional Course: "Endoscopic Carpal Tunnel Release."
- 2002: Northeastern Society of Plastic Surgeons Annual Meeting Instructional Course: "Update on Emergency Hand Surgery"
- 1998: American Society of Plastic & Reconstructive Surgeons Instructional Course: "Evaluation and Treatment of Pain Syndromes: Beyond Reflex Sympathetic Dystrophy"
- 1997: American Society of Plastic & Reconstructive Surgeons Instructional Course: "Evaluation and Treatment of Pain Syndromes: Beyond Reflex Sympathetic Dystrophy"
- 1996-present: Annual lecture series, Quinnipiac PA Program: "Examination of the Hand and Common Problems"
- 1996: Plastic Surgery Grand Rounds, Brown University: "Quantitative Breast Surgery"

## PROFESSIONAL SERVICE

### Peer Review Groups/Grant Study Sections

- 2014 Chair, Research and Education Committee, American Association of Plastic Surgeons
- 2011 Acting Chair, Research and Education Committee, American Association of Plastic Surgeons
- 2011-2014 Member (3-year term), Research and Education Committee, American Association of Plastic Surgeons
- 2010 Member (1-year term), Research and Education Committee, American Association of Plastic Surgeons
- 2009 Member (1-year term), Research and Education Committee, American Association of Plastic Surgeons
- 1998-2000 Member, Grants Committee, Plastic Surgery Educational Foundation

### Journal Service

- 2011-present Editor, *Aesthetic Plastic Surgery*, Hand and Peripheral Nerve Section
- 2009-present Reviewer, *Plastic and Reconstructive Surgery*
- 2003-2009 Editorial Board, *Plastic and Reconstructive Surgery*
- 2003-2005 Reviewer, *Annals of Plastic Surgery*
- 2000-2003 Editorial Board, *Annals of Plastic Surgery*
- 1998-1999 Guest Reviewer, *Annals of Plastic Surgery*

### Professional Organizations

#### American Board of Plastic Surgery

- 2008-present Guest examiner, oral examination
- 1994-96 Member, In-Service Exam Hand Subcommittee

#### New England Society of Plastic Surgeons

2007-08 Chair, Nomination Committee  
2006-07 President  
2005-06 Vice-president  
2004-05 Secretary/Treasurer  
2003-04 Chair, Membership Committee  
2001-03 Councilor, Executive Committee  
1996-97 Member, Nominating Committee

#### **New England Hand Society**

2001-03 President  
1999-01 Vice-President  
1997-99 Secretary/Treasurer

#### **Meeting Planning/Participation**

1999-00 Member, Scientific Program Committee, Plastic Surgery Research Council  
1996-97 Member, Financial Committee, Northeastern Society of Plastic & Reconstructive Surgery

#### **Yale University Service**

##### **Departmental Committees**

1994-96 Member, Space Committee, Dept. of Surgery, School of Medicine

##### **Hospital Boards & Committees**

2007-present Member, Healthy Skin Steering Committee, Yale-New Haven Hospital  
1993-95 Member, Medical Records Forms Committee, VA Connecticut

##### **Public Service**

2008-present Hand Help, Volunteer Overseas Program Founder and Team Leader, San Pedro Sula, Honduras  
  
2005-07 Healing the Children, Volunteer Overseas Program Team Leader, San Pedro Sula, Honduras  
  
2000-02 Interplast, Volunteer Overseas Program Team Leader, San Pedro Sula, Honduras  
  
1996-97 Interplast, Volunteer Overseas Program Surgeon Manaus, Brazil  
  
1994 Ameda HC, Advisor as expert in hydrogen clearance blood flow measurements, Switzerland

#### **BIBLIOGRAPHY:**

##### 1. Peer-Reviewed Manuscripts

Kerrigan, C.L., Zelt, R.G., **Thomson, J.G.**, and Diano, E.: Plastic surgery research: the pig as an experimental model for the study of skin flaps, myocutaneous flaps and fasciocutaneous flaps. *Lab Animal Sci.* Pp. 408-412, 1986.

**Thomson, J.G.** and Kerrigan, C.L.: Dermofluorometry: Thresholds for predicting flap survival. *Plast Reconstr Surg.* 83: 859, 1989.

**Thomson, J.G.** and Kerrigan, C.L.: Fasciocutaneous flaps: An experimental model in the pig. *Plast Reconstr Surg.* 83: 110, 1989.

Picard-Ami, A. Jr., **Thomson, J.G.**, and Kerrigan, C.L.: Critical ischemia times and survival patterns of experimental flaps. *Plast Reconstr Surg.* 86: 739, 1990.

**Thomson, J.G.**, Kerrigan, C.L., and Abrahamowicz, M.: Effects of sodium pentobarbital anesthesia on blood flow in skin, myocutaneous, and fasciocutaneous flaps in swine. *Plast Reconstr Surg.* 88: 269, 1991.

**Thomson, J.G.** and Kerrigan, C.L.: Hydrogen clearance: Assessment of technique for measurement of skin flap blood flow in pigs. *Plast Reconstr Surg.* 88: 657, 1991.

**Thomson, J.G.**, Brown, H.C., Brown, R.A., Fleiszer, D.M.: Facial fractures: Associated injuries and complications. *Can J Plast Surg.* 1:160, 1993/94.

**Thomson, J.G.**, Restifo, R.J.: Microsurgery for cranial base tumors. *Clin Plast Surg.* 22: 563, 1995.

Ross, D.A., **Thomson, J.G.**, Restifo, R.J., Tarro, J.M., Sasaki, C.T.: The extended lateral arm free flap for head and neck reconstruction: The Yale experience. *Laryngoscope* 106:14-18, 1996.

Zahir, K.S., Ahmed, S., Zink, J., Restifo, R.J., **Thomson, J.G.**: Preconditioning Improves the Survival of Skin and Myocutaneous Flaps. *Surgical Forum* 47: 735, 1996.

Turowski, G.A., Zdankiewicz, P.D., **Thomson, J.G.**: The long-term results of surgical treatment of trigger finger. *J Hand Surg.* 22A:145, 1997.

Restifo, R.J., Ahmed, S.S., Isenberg, J.S., **Thomson, J.G.**: Timing, magnitude, and utility of surgical delay in the TRAM flap. Part I: Animal Studies. *Plast Reconstr Surg.* 99:1211, 1997.

Zink, J.A., Ahmed, S.S., Restifo, R.J., Zahir, K.S., **Thomson, J.G.** Transfer of vascular territory from one axial pattern flap to another: utilizing the delay phenomenon. *Ann Plast Surg.* 38: 385, 1997.

Syed, S.A., Zahir, K.S., Zink, J.A., Restifo, R.J., **Thomson, J.G.**: Distal Dorsal Forearm Flap. *Ann Plast Surg.* 38:396-403, 1997.

Ahmed, S.S., Pierce, J., Reid, M., **Thomson, J.G.**, Restifo, R.J. A new experimental model: The vascular pedicled cutaneous flap over the mid-dorsum of the rat. *Ann Plast Surg.* 39:495-499, 1997

Zink, J.R., Syed, S.A., Zahir, K., **Thomson, J.G.**, Restifo, R. Transferring Vascular Territories from One Axial Pattern Flap to Another: A Comparison of Delay Procedures. *Ann Plast Surg.* 38(4):385-387, April 1997.

Restifo, R.J., Ahmed, S.S., Rosser, J., Zahir, K., Zink, J., Lalikos, J.A., **Thomson, J.G.**:

TRAM flap perforator ligation and the delay phenomenon: Development of an endoscopic/laparoscopic delay procedure. *Plast Reconstr Surg.* 101:1503, 1998

Zahir, K., Syed, S.A., Zink, J., Restifo, R.J., **Thomson, J.G.**: Ischemic preconditioning improves the survival of skin and myocutaneous flaps in a rat model. *Plast Reconstr Surg.* 102:140, 1998

Zahir, K.S., Syed, S.A., Zink, J.R., Restifo, R.J., **Thomson, J.G.** Comparison of the effects of ischemic preconditioning and surgical delay on pedicle myocutaneous flap survival in a rat model. *Ann Plast Surg.* 40:422, 1998

Zahir, T.M., Zahir, K.S., Syed, S.A., Restifo, R.J., **Thomson, J.G.** Ischemic preconditioning of myocutaneous flaps: Effects of ischemia cycle length and number of cycles. *Ann Plast Surg.* 40:430, 1998

**Thomson, J.G.**, Kim, J.H., Ahmed, S.S., Reid, M.A., Madsen, J., Restifo, R.J., The effect of prolonged clamping and vascular stasis on the patency of arterial and venous microanastomoses. *Ann Plast Surg.* 40:436, 1998

Zahir, K.S., Quin, J.A., Brown, W., **Thomson, J.G.**, Dudrick, S.J. Trends in the incidence of upper extremity soft tissue malignancies: A 40-year review of the Connecticut State Tumor Registry. *Conn Med.* 62:9-14, 1998

Otake, L.R., **Thomson, J.G.**, Persing, J.A., Merrell, R.C.: Telemedicine: Low-Bandwidth Applications for Intermittent Health Services in Remote Areas. *JAMA.* Vol 280, No. 15:1305-1306, 1998

Restifo, R.J., **Thomson, J.G.**: The preconditioned TRAM flap: Preliminary clinical experience. *Ann Plast Surg.* 41:343-347, 1998

Pu, L.L.Q., Ahmed, S., **Thomson, J.G.**, Reid, M.A., Madsen, J.A., Restifo, R.J.: Endothelial cell growth factor enhances musculocutaneous flap survival through the process of neovascularization. *Ann Plast Surg.* 42:306-312, 1999

Zahir, K.S., Zahir, F.S., **Thomson, J.G.**, Dudrick, S.J.: The double-crush phenomenon: An unusual presentation and literature review. *Connecticut Med.* Vol 63, No. 9:535-538, 1999

Ta, K.T., Eidelman, D., **Thomson, J.G.**: Patient satisfaction and outcomes of surgery for de Quervain's tenosynovitis. *J Hand Surg.* Vol 24A, No. 5:1071-1077, 1999

Pu, L.L.Q., Ahmed, S.A., Reid, M.A., Patwa, H., Goldstein, J.M., Forman, D.L., **Thomson, J.G.**: Effects of nerve growth factor on nerve regeneration through a vein graft across a gap. *Plast Reconstr Surg.* 104:1379-1385, 1999.

Palesty, J.A., Chao, R.P., Enoksson, S., Syed, S.A., Centrella, M., McCarthy, T., Omar, A., Mine, R., Braun, S.A., Ta, K.T., **Thomson, J.G.**: The use of microdialysis to measure the metabolic effects of ischemic preconditioning on skin flaps in a rat model. [Abstract] *Conn Med.* 64:32, 2000.

Chao, R.P., Palesty, J.A., Syed, S.A., Ta, K.T., Mine, R., Braun, S.A., **Thomson, J.G.**: An evaluation of wound dressing choices by plastic surgeons. [Abstract] *Conn Med.* 64:34,

2000.

White, R.I., Pollak, J., Persing, J., Henderson, K.J., **Thomson, J.G.**, Burdge, C.M.. Long-Term outcome of embolotherapy and surgery for high-flow extremity arteriovenous malformations. *J Vasc Interventionsl Radiol.* 11(10):1285-1295, 2000.

Pan, D., Watson, H.K., Swigart, C., **Thomson, J.G.**, Honig, S.C., Narayan, D.. Microarray gene analysis and expression profiles of Dupuytren's contracture. *Ann Plast Surg.* 2003

Chao, R.P., Braun, S.A., Ta, K.T., Palesty, J.A., Mine, R., Syed, S.A., Chang, D.J., **Thomson J.G.** Early passive mobilization after digital nerve repair and grafting in a fresh cadaver. *Plast Reconstr Surg.* 108(2):386-91, 2001 Aug.

Waitze, S., Saberski, L., **Thomson, J.G.** The results of nerve stimulator implantation for the treatment of complex regional pain syndrome. *The Pain Clinic* 3(5): 23-28, 2001.

Braun S.A.. Mine R.. Syed S.A.. Ta K.T.. Chao R.P.. Ciesielski T.E.. Perez-Morel A.. **Thomson J.G.** The optimal sequence of microvascular repair during prolonged clamping in free flap transfer. *Plast Reconstr Surg.* 111(1):233-41, 2003.

Hsia, H.C., **Thomson, J.G.** Differences in breast shape preferences between plastic surgeons and patients seeking breast augmentation. *Plast Reconstr Surg.* 112 (1):312-20 discussion 321-2, 2003 Jul.

Jae Lee C. Hee Whang J. Lazova R. Ciesielski TE. **Thomson JG.** McCarthy T. Persing JA. Growth factor expression with different wound treatments after laser resurfacing. *Aesthetic Surgery Journal.* 27(1):55-64, 2007 Jan-Feb.

Lee, C.J., Park, J.H., Ciesielski, T.E., **Thomson, J.G.** Persing, J.A. Retinoids, 585-nm laser, and carbon dioxide laser: a numeric comparison of neocollagen formation in photoaged hairless mouse skin. *Aesth Plast Surg.* 32(6):894-901, 2008 Nov.

**Thomson, J.G.**, Liu, Y.J., Restifo, R.J., Rinker, B.D., Reis, A. Surface area measurement of the female breast: phase I. Validation of a novel optical technique. *Plast Reconstr Surg.* 123(5):1588-96, 2009 May.

**Thomson, J.G.**, Mine, R., Shah, A., Palesty, J.A., Yaghjian, G., Ahmed, S., Braun, S.A., Chao, R.P. The effect of core temperature on the success of free tissue transfer. *J Reconstr Microsurg.* 25(7):411-6, 2009 Sep.

Shah, A.A., Arias, J.E., **Thomson, J.G.** The effect of ischemic preconditioning on secondary ischemia in myocutaneous flaps. *J Reconstr Microsurg.* 25(9):527-31, 2009 Nov.

Crockett, R.J., Centrella, M., McCarthy, T.L., **Thomson, J.G.** Effects of cyclic strain on rat tail tenocytes. *Mol Biol Rep.* 37:2629–2634, 2010.

Liu YJ. Hirsch BP. Shah AA. Reid MA. **Thomson JG.** Mild intraoperative hypothermia reduces free tissue transfer thrombosis. *J Reconstr Microsurg.* 27(2):121-6, 2011 Feb.



Liu, Y.J., **Thomson, J.G.** Ideal Anthropomorphic Values of the Female Breast: Correlation of Pluralistic Aesthetic Evaluations with Objective Measurements. *Ann Plast Surg.* 67(1):7-11, 2011 Jul.

Chin, S.H., Tom, L.K., **Thomson, J.G.** Does the severity of bilateral carpal tunnel syndrome influence the timing of staged bilateral release? *Ann Plast Surg.* 67(1):30-3, 2011 Jul.

Buonocore S. Sawh-Martinez R. Emerson JW. Mohan P. Dymarczyk M. **Thomson JG.** The effects of edema and self-adherent wrap on the work of flexion in a cadaveric hand. *J Hand Surg - American Volume.* 37(7):1349-55, 2012 Jul.

2. Case Reports, Technical Notes, Letters

Turowski, G.A., Amaji, N., Sterling, A., **Thomson, J.G.:** Aneurysm of the radial artery following blunt trauma to the wrist. *Ann Plast Surg.* 38: 527, 1997.

**Thomson, J.G.** Re: Distal Dorsal Forearm Flap [Letter, author reply] *Ann Plast Surg.* 39(5):556, November 1997.

Hendrix, C.L., **Thomson, J.G.**, Blume, P.A.. Pedal macrodactyly: coverage of a large defect with a rectus abdominus free flap. *J Foot Ankle Surg.* 39(3):184-8, 2000 May-Jun.

Pu, L.L.Q., **Thomson, J.G.:** Salvage of the exposed irradiated knee joint with free tissue transfer. *Ann Plast Surg.* 44:334-339, 2000.

Nishihori, T., Choi, J., DiGiovanna, M.P., **Thomson, J.G.**, Kohler, P.C., McGurn, J., Chung, G.G. Carpal tunnel syndrome associated with the use of aromatase inhibitors in breast cancer. *Clin Breast Cancer.* 8(4):362-5, 2008 Aug.

Liu, Y.J., **Thomson, J.G.** Re: Surface area measurement of the female breast: Phase I. Validation of a novel optical technique. [Letter, author reply] *Plast Reconstr Surg.* 124(6): 2194-5, 2009 Dec.

Colebunders B. Matthew MK. **Thomson J.G.** The use of a surgical glove in microsurgical training: a new point of view. *Microsurgery.* 30(6):505-6, 2010 Sep.

3. Reviews, Chapters, Books

**Thomson, J.G.:** Book review of current surgical therapy. Fifth edition. By John L. Cameron. Mosby Year-Book, Inc., St. Louis, M.O., *Plast Reconstr Surg.* 97:863, 1996.

**Thomson, JG.** Discussion of: Cutaneous tissue flap viability following partial venous obstruction. Russell JA. Conforti ML. Connor NP. Hartig GK. *Plastic & Reconstructive Surgery.* 117(7):2259-66; discussion 2267-8, 2006 Jun.

4. Guidelines and Consensus Statements, including curriculum development

A. National

B. Regional

5. Papers in Press

Boskowski, M.T., **Thomson, J.G.** The History of Carpal Tunnel Syndrome. *Yale Journal of Biology and Medicine*. Accepted for publication.