

**Hand and Upper Limb Centre  
St. Joseph's Health Centre  
Lawson Health Research Institute  
Advanced Surgical Technologies  
London, Ontario, Canada**

**Research Report 2004**

**Director: James Roth MD FRCSC FACS (Orthopaedics)**

**Clinical Staff:**

**Robert McFarlane MD FRCSC (Emeritus)**  
**Robert McMurtry MD FRCSC FACS (Orthopaedics)**  
**Doug Ross MD Med FRCSC (Plastics)**  
**David Chess MD MSc FRCSC (Orthopaedics, Medical Biophysics)**  
**Graham King MD MSc FRCSC (Orthopaedics, Medical Biophysics)**  
**Robert Richards MD FRCSC (Plastics)**  
**Ken Faber MD PHPE FRCSC (Orthopaedics)**  
**Bing Siang Gan MD PhD FRCSC FACS (Plastics, Physiology/Pharmacology, Medical Biophysics)**  
**Darren Drosdowech MD FRCSC (Orthopaedics)**  
**Claire Temple MD FRCSC (Plastics)**  
**George Athwal MD FRCSC (Orthopaedics)**

**Scientific Staff:**

**Joy MacDermid MSc PhD (Clinical epidemiology and Outcomes research)**  
**James Johnson PhD pEng (Bioengineering)**  
**David O'Gorman MSc PhD (Cell and Molecular Biology)**

## HULC Research Summary January 1993- December 2004

Year	Papers Published	Number Grants	Grant Value	Book Chapters	Abstracts	Scientific Presentations	Invited Lectures
93	12	3	154,000.00	6	18	32	19
94	14	4	30,255.43	3	23	47	32
95	14	11	199,277.00	10	8	29	30
96	9	9	82,902.88	9	14	26	24
97	13	15	301,948.95	4	10	57	41
98	21	5	190,000.00	2	21	77	16
99	22	23	282,007.40	6	6	38	29
00	20	22	1,053,694.00	4	20	51	39
01	28	6	222,575.00	4	23	48	38
02	20	16	901,622.80	6	14	67	33
03	28	16	1,668,315.90	1	17	50	68
04	42	8	913,306.00	4	15	50	76

Please note for grants:

- 1) The entire value of multi-year grants is credited to the first year received.
- 2) SRTP students are credited as the value of their salary.

## Publications 2004

1. Howard JC, Varallo VM, Ross DC, Faber KJ, Roth JH, Seney S, Gan BS: Wound healing-associated proteins Hsp-47 and fibronectin are elevated in Dupuytren's contracture. *Journal of Surgical Research* 2004; 117(2): pp 232-238.
2. Hui J, Choy J, Suwandarane SP, Shervill J, Gan BS, Howard JC, Reid JC: Antimicrobial activity of Vaccinium macrocarpon (cranberry) produced proanthocyanidin (PAC) on the growth and adhesion properties of p-fimbriated Escherichia coli and Staphylococcus aureus. *Journal of Food Science and Nutrition* 2004; 9: pp 29-33.
3. MacDonald J, Zhong T, Lazarescu A, Gan BS, Harth M: Vasculitis associated with the use of Leflunomide: Case report and review of the literature. *Journal of Rheumatology* 2004;31 (10): pp 2076-8.
4. Tse R, Howard JC, Gan BS: The effects of Transforming Growth Factor- $\beta$  on cultured Dupuytren's fibroblasts in a collagen matrix. *Plastic Surgery Forum* 2004;27: pp 166-68.
5. Howard JC, Reid G, Gan BS: Probiotics in surgical infection: current status. *Clinical and Investigative Medicine* 2004; 27 (5): pp 274-81.
6. Tse R, Howard JC, Wu Y, Gan BS: Enhanced Dupuytren's disease fibroblast populated collagen lattice contraction is independent of endogenous active TGF- $\beta$ 2. *BMC Musculoskeletal Disorders* 2004;5:41 (12 Nov 2004).
7. Chinchalkar SJ, Gan BS, McFarlane RM, King GJ, Roth JH.: Syndrome of extensor quadrigia. *Canadian Journal of Plastic Surgery* 2004;12 (4): pp 174-8.
8. Gan BS. The MD-PhD path: How should it be done? AAAS Next Wave. Published electronically at the following website: <http://nextwave.sciencemag.org/cgi/content/full/2004/01/07/5> (January 2004)
9. MacDermid JC, Ramos J, Drosdowech DS, Faber K. Impact of rotator cuff pathology on isometric and isokinetic strength, function and quality of life. *Journal of Shoulder and Elbow Surgery*. 13(6). 2004.
10. Zakaria D, Robertson J, Koval J, MacDermid JC, Hartford K Rates of cumulative trauma disorder of the upper extremity claims in Ontario workers during 1997. *Chronic Diseases in Canada* 25: 22-31,2004.
11. MacDermid JC, Lee A, Richards RH, Roth JH: Individual finger strength: Are the ulnar digits more "powerful"? *Journal of Hand Therapy* 17: 364-367, 2004.
12. Lowden C, Attiah M, Faber KJ, Garvin G, MacDermid JC, Osman S: The prevalence of wrist ganglia in an asymptomatic population: magnetic resonance. (Awarded best scientific paper at 2003 American Society of Hand Therapists Annual Meeting) In Press *Journal of Hand Surgery* 2004
13. MacDermid JC: An introduction to evidence based practice for hand therapists. *Journal of Hand Therapy* 17(2):105-117, 2004.
14. MacDermid JC: The Quality of Clinical Practice Guidelines in Hand Therapy. *Journal of Hand Therapy* 17(2): 200-209, 2004.
15. MacDermid JC, Stratford P: Applying Evidence on Outcome Measures to Hand Therapy Practice. *Journal of Hand Therapy* 17(2):165-173, 2004.
16. Gibson K, Growse A, Korda L, Wray E, MacDermid JC: The Effectiveness of Rehabilitation for Nonoperative Management of Shoulder Instability: A Systematic Review. *Journal of Hand Therapy* 17(2):229-242, 2004
17. Trudel D, Duley J, Zastrow I, Kerr EW, Davidson R, MacDermid JC : Rehabilitation for Patients with Lateral Epicondylitis: A Systematic Review. *Journal of Hand Therapy* 17(2):243-266, 2004.
18. Williams RM, Schmuck G, Westmorland M, MacDermid JC: Effectiveness of Workplace Rehabilitation Interventions In the Treatment of Work-Related Upper Extremity Disorders: A Systematic Review. *Journal of Hand Therapy*.17(2): 267-273, 2004.
19. MacDermid JC and Wessel J : Clinical diagnosis of Carpal Tunnel syndrome: A systematic review. *Journal of Hand Therapy* 17(2):309-319, 2004.

20. Mueller M, Tsui D, Schnurr R, Biddulph-Desiroth L, Hard J, MacDermid JC : The effectiveness of hand therapy interventions in primary management of carpal tunnel syndrome.: A systematic review. *Journal of Hand Therapy*. 17(2):210-219, 2004.
21. MacDermid JC, Roth JH, Richards RS: Pain and Disability Reported in the Year Following a Distal Radius Fracture: A Cohort Study. *BMC Musculoskeletal* 4(24):1-13. 2004.
22. MacDermid JC, Ramos J, Drosdowech D, Faber, Patterson SD: The importance of isometric and isokinetic strength measures in patients with rotator cuff pathology. *Journal of Shoulder and Elbow Surgery* In press 17(2):2004.
23. MacDermid JC, Drosdowech D, Faber KJ: Responsiveness of shoulder self-report scales in evaluating recovery following rotator cuff repair. *Journal of Shoulder and Elbow Surgery*. In press 2004
24. Faber KJ. Coronal shear fractures of the distal humerus: the capitellum and trochlea. *Hand Clin*. 2004 Nov;20(4):455-64.
25. Temple CLF, Ross DC, Johnson JA, Dunning C: Resistance to disruption and gapping of peripheral nerve repairs: an in-vitro biomechanical assessment of techniques. *Journal of Reconstruction Microsurgery* 20(8) 645-650, 2004.
26. Temple CLF, Arlette JP, Trotter T, Trotter M. *Management of lentigo maligna and lentigo maligna melanoma: seminars in surgical oncology*. *Journal of Surgical Oncology* 1;86(4): 179-186, 2004.
27. Kim JY, Chang DW, Temple CLF, Beahm EK, Robb GL. Free transverse rectus abdominis musculocutaneous flap breast reconstruction in patients with prior abdominal suction-assisted lipectomy. *Plastic and Reconstruction Surgery* 113(3) 28e-31e, 2004.
28. Temple CLF, Strom EAS, Youssef A, Langstein HN. *Choice of recipient vessels in delayed TRAM flap breast reconstruction after radiotherapy*. *Plastic and Reconstructive Surgery* 115(1):105-113 2005.
29. Temple CLF, Ross DC, Bennett JD, Garvin G, King GJW, Faber KJ. *Sensitivity and specificity of CT versus plain film radiography in a cadaver model of scaphoid fracture*. Accepted to the *Journal of Hand Surgery*, 2004.
30. Temple CLF, Artette JP. *Mohs micrographic surgery in the treatment of lentigo maligna and melanoma*. Accepted to *Journal of Surgical Oncology*, 2004.
31. King GJW: Management of radial head fractures with implant arthroplasty. *J Am Society Surg Hand* 4:11-26, 2004.
32. Duggal N, Dunning CE, Johnson JA, King GJW: The flat spot of the proximal ulna: A useful anatomical landmark in total elbow arthroplasty, *J Shoulder Elbow Surg* 13:206-207, 2004.
33. Beadel GP, Ferreira LM, Johnson JA, King GJW: Interfragmentary compression across a simulated scaphoid fracture - Analysis of three screws, *J Hand Surg* 29A:273-278, 2004.
34. Giffin JR, Patterson SD, Johnson JA, King GJW: Internal fixation of radial neck fractures: an in-vitro biomechanical analysis, *Clinical Biomechanics* 19:358-361, 2004.
35. Gofton WT, Gordon KD, Dunning CE, Johnson JA, King GJW: Soft tissue stabilizers of the distal radioulnar joint: An in-vitro kinematic study, *J Hand Surg*, 29A:423-431, 2004.
36. Pugh DMW, Wild LM, Schemitsch EH, King GJW, McKee MD: Standard surgical protocol to treat elbow dislocations with radial head and coronoid fractures. *J Bone Joint Surg* 86A:1122-1130, 2004.
37. Beingessner DM, Dunning CE, Gordon KD, Johnson JA, King GJW: The effect of radial head excision and arthroplasty on elbow kinematics and stability. *J Bone and Joint Surg* 86A:1730-1739, 2004.
38. Athwal GS, Chenkin J, King GJ, Pichora DR: Early failures with a spheric interposition arthroplasty of the thumb basal joint. *J Hand Surg* 29A:1080-1084, 2004.
39. Chinchalkar SJ, Gan BS, McFarlane RM, King GJW, Roth JH: Extensor quadregia: Pathomechanics and treatment. *Can J Plast Surg* 12:174-178, 2004.
40. Chinchalkar SJ, Szekeres M.: Rehabilitation of elbow trauma. *Hand Clin*.2004 Nov;20(4):363-74

41. Chinchalkar SJ, AhYong S. : Double Reverse Kleinert extension splint for extensor tendon repairs in zone VI –VIII. J Hand Ther. 2004 Oct-Dec;17(4):424-6
42. Chinchalkar SJ, AhYong S.: An Ulnar Boost Splint for Midcarpal Instability. J Hand Ther. 2004; 377-9

### Published Abstracts 2004

1. Gan BS, Wu Y, Howard JC: Wnt/b-catenin signalling in Dupuytren's contracture: A possible molecular pathophysiologic mechanism. Canadian Journal of Plastic Surgery 2004;12(2): pp 90.
2. Temple CLF, King GJ, Ophof PJA, Gan BS: Fly-fisherman's wrist and other upper extremity tendinopathies: Unrecognized occupational hazards for surgeons? Canadian Journal of Plastic Surgery 2004;12(2): pp 113.
3. Chinchalkar SJ, Gan BS: Pathomechanics and management of secondary complications following flexor tendon repair. Canadian Journal of Plastic Surgery 2004;12(2): pp 114.
4. Tse R, Temple CLF, Bettger-Hahn M, MacDermid J, Gan BS: The innervated TRAM flap for breast reconstruction: Is it worthwhile? Canadian Journal of Plastic Surgery 2004;12(2): pp 116.
5. Howard JC, Wu Y, Seney S, Gan BS: Wnt expression in Dupuytren's contracture: differential Wnt expression induced by two-dimensional and three-dimensional cell culture conditions. Molecular Biology of the Cell 2004: 15 (Suppl): pp 418a.
6. Howard JC, Gan BS, Wu Y. Identification of Dupuytren's disease protein biomarkers using Surface Enhanced Laser Desorption Ionization time-of-flight mass spectrometry. Molecular Biology of the Cell 2004: 15 (Suppl): pp 366a.
7. Temple CLF, Langstein HL, Strom EA, Youssef A. *Choice of recipient vessels in delayed TRAM flap breast reconstruction after radiotherapy.* Can J Plast Surg 12(2):88, 2004.
8. Temple CLF, Arlette JP *Mohs micrographic surgery in the treatment of lentigo maligna and melanoma.* Can J Plast Surg 12(2):102, 2004.
9. Alsafadi S, Temple CLF, Ross DC *Arm Replantation in pregnancy.* Can J Plast Surg 12(2):113, 2004.
10. Seal A, Temple CLF, Tse R, Hammond A. Application of sentinel node biopsy and limb salvage surgery for epithelioid sarcoma of the hand. Can J Plast Surg 12(2):113, 2004.
11. Tse R, Temple CLF, Bettger-Hahn M, MacDermid J, Gan BS, Ross DC. *The innervated TRAM flap for breast reconstruction: Is it worthwhile?* Can J Plast Surg 12(2):113, 2004.
12. Nyguen DQT, MacDermid J, Miller TA, Ross DC, King GJW, Patterson SDP: The Impact of Neurologic Status on Outcome Following Ulnar Nerve Transposition. Canadian Journal of Plastic Surgery 12: 112, 2004.
13. Faber KJ, MacDermid J, King GJW: Modular Metal Radial Head Arthroplasty is an Effective Treatment for Comminuted Radial Head Fractures. Abstract Book – 9<sup>th</sup> Congress of the International Federation of Societies for Surgery of the Hand 204, 2004.
14. Zhong T, Chinchalkar SJ, Ross DC: Results of PIP Joint release for extension contractures via posterior approach with extensor tenolysis and dorsal capsulectomy. Can J Plast. Surg. 2004;12(2):114
15. Alhabib S, Richards RS, Ross DC. Comparison of full versus half FCR tendon in LRTI CMC arthroplasty. . Can J Plast. Surg. 2004;12(2):114.

## **Books and Book Chapters 2004**

1. Temple CLF, Butler C. Pectoralis muscle flap for chest reconstruction. In Reconstructive surgery of the chest, abdomen and pelvis. pp 194-214. Ed Gregory RD Evans, New York, Marcel Dekker, 2004.
2. "Elbow Trauma" – Ed. Graham JW King, in Hand Clinics, W.B. Saunders, Philadelphia, 2004.
3. Lowden C, Garvin G, King GJW – "Imaging of the Elbow Following Trauma". Hand Clinics: Elbow Trauma. King GJW. Saunders 20:353-252, 2004
4. King GJW –"Management of Comminuted Radial Head Fractures With Replacement Arthroplasty". Hand Clinics: Elbow Trauma. King GJW. Saunders 20:429-442, 2004

## **Awards 2004**

1. Deans Team Award of Excellence Research-Hand and Upper Limb Centre
2. Gan BS. Schulich School of Medicine and UWO Faculty of Medicine and Dentistry Surgery Clerkship Teaching Award for Outstanding Faculty Teacher. 2004
3. Faber KJ. Schulich School of Medicine and UWO Faculty of Medicine and Dentistry. Surgery Clerkship Teaching Award for Outstanding Faculty Teacher. 2004
4. Faber KJ. USC Teaching Honor Roll Award.
5. King GJW. USC Teaching Honor Roll Award.
6. Richards RS. USC Teaching Honor Roll Award.
7. Ross DC. USC Teaching Honor Roll Award.
8. Zhong T. Ethicon award for plastic surgery research- Tolerance induction using an Anti-CD45RB monoclonal antibody and LF0195 in a mouse limb allograft model.
9. Gan BS.Canadian Institutes of Health Research (IMHA) . Quality of Life Award for Outstanding Research in Musculoskeletal Health and Arthritis. 2004
10. Raymond Tse , Gan BS. TGF- $\beta$ 2 effects on Dupuytren's contracture cells 2004 Dr. RM McFarlane Research Award University of Western Ontario, London ON, Canada
11. Raymond Tse The innervated TRAM flap for breast reconstruction: Is it worthwhile?2004 Best Resident Research Award Groupe pour l'Avancement de la Microchirurgie Hamilton ON, Canada
12. Temple, CLF. Division of Plastic Surgery Meds 2005 Undergraduate Teaching Award (2004)
13. MacDermid JC. 2005 Natalie Barr Lectureship, American Society of Hand Therapists
14. King GJW The H.S. Cameron Award for Teaching Excellence. University of Western Ontario
15. Resident/Fellow Essay Award in Clinical Science. Arthroscopy Association of North America. Duong Nyguen  
Arthroscopic Release is Safe and Effective in the Management of Elbow Contracture  
Nyguen D, Faber K, MacDermid J, King GJW
16. King GJW. Dean's Award for Research Excellence (Co-supervisor)  
Western Research Forum, University of Western Ontario  
Jamie Brownhill  
Anatomic Axes of the Distal Humerus with Relevance to Elbow Implant Design  
Brownhill J, King GJW, Johnson JA

## Presentations 2004

1. Tse R, Ross DC, Temple CLF, Gan BS: Sensibility following innervated TRAM flap for breast reconstruction. American Society for Reconstructive Microsurgery, Palms Springs CA, USA, Jan 2004.
2. Tse R, Gan BS, Howard JC: Contractile properties of Dupuytren's fibroblasts: the effects of TGF- $\beta$ . American Association for Hand Surgery, Palms Springs CA, USA, Jan 2004
3. Matic D, Yazdani A, Gan BS, Lee TY, Wells RJ: Effects of muscle paralysis on facial growth. LHRI Sister Mary Doyle Research Day, London ON, Canada, Mar 2004.
4. Gan BS, Wu Y, Howard JC: Wnt/b-catenin signalling in Dupuytren's contracture: A possible molecular pathophysiologic mechanism. Canadian Society of Plastic Surgeons, Hamilton BC, Canada, Jun 2004.
5. Temple CLF, King GJ, Ophof PJA, Gan BS: Fly-fisherman's wrist and other upper extremity tendinopathies: Unrecognized occupational hazards for surgeons? Manus Canada, Hamilton ON, Canada, Jun 2004.
6. Chinchalkar SJ, Gan BS: Pathomechanics and management of secondary complications following flexor tendon repair. Manus Canada, Hamilton ON, Canada, Jun 2004.
7. Tse R, Temple CLF, Bettger-Hahn M, MacDermid J, Gan BS: The innervated TRAM flap for breast reconstruction: Is it worthwhile? Groupe pour l'Avancement de la Microchirurgie, Hamilton ON, Canada, Jun 2004.
8. Matic DB, Yazdani A, Lee TY, Welss RG, Tennakore K, Gan BS: The effects of botulinum toxin on muscle metabolism. Plastic Surgery Research Council, Ann Arbor MI, USA, Jun 2004.
9. Tse R, Howard JC, Gan BS: The effects of Transforming Growth Factor- $\beta$  on cultured Dupuytren's fibroblasts in a collagen matrix. American Society of Plastic Surgeons, Philadelphia PA, USA, Oct 2004.
10. Gan BS, Wu Y, Howard JC: Wnt profile in Dupuytren's contracture: A possible molecular pathophysiologic mechanism. (Poster) Plastic Surgery Research Council, Ann Arbor MI, USA, Jun 2004.
11. Matic DB, Yazdani A, Lee TY, Welss RG, Tennakore K, Gan BS: The effects of masseter muscle paralysis on craniofacial bone growth. (Poster) Plastic Surgery Research Council, Ann Arbor MI, USA, Jun 2004.
12. Howard JC, Wu Y, Seney S, Gan BS: Wnt expression in Dupuytren's contracture: differential Wnt expression induced by two-dimensional and three-dimensional cell culture conditions. (Poster) American Society for Cell Biology, Washington DC, USA, Dec 2004.
13. Howard JC, Gan BS, Wu Y. Identification of Dupuytren's disease protein biomarkers using Surface Enhanced Laser Desorption Ionization time-of-flight mass spectrometry. (Poster) American Society for Cell Biology, Washington DC, USA, Dec 2004.
14. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Computer Assisted Shoulder Hemiarthroplasty for Fractures of the Proximal Humerus. CAOS International Meeting, Chicago June 2004.
15. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Cyclic Loading of Rotator Cuff Repairs: An In Vitro Biomechanical Comparison of Bioabsorbable Anchors with Transosseous Sutures. Orthopaedic Research Society. San Francisco. February 2004.
16. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Cyclic Loading of Rotator Cuff Repairs: An In Vitro Biomechanical Comparison of Bioabsorbable Anchors with Transosseous Sutures. 11<sup>th</sup> Annual Residents and Fellows Arthroscopy Conference, Useppa Island, Florida, 2004.
17. Viskontas D, MacDermid, Faber K, Drosdowech D. Lateral Acromion Angle: Do x-ray and MRI interpretations correlate and is it a reliable method of acromion morphology assessment? Sports Med 2004 – Ontario Medical Association. Toronto. January 2004.
18. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Computer Assisted Shoulder Hemiarthroplasty for Fractures of the Proximal Humerus: Development of a Novel Technique and an in

- vitro Comparison with Traditional Methods. 32<sup>nd</sup> Clinical Seminar in Orthopaedic Surgery, London Ontario. September 2004
19. Nguyen Duong, Drosdowech DS, Faber K. Total shoulder arthroplasty: Design and Validation of a Glenoid Implantation Tracking System. 32<sup>nd</sup> Clinical Seminar in Orthopaedic Surgery, London, Ontario. September 2004.
  20. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Cyclic Loading of Rotator Cuff Repairs: An In Vitro Biomechanical Comparison of Bioabsorbable Anchors with Transosseous Sutures. 11<sup>th</sup> Meeting of the Combined Orthopaedic Associations. Sydney Australia October 2004.
  21. Kedgley, AE, Ferreira LM, King GJW, Faber KJ, Drosdowech DS, Johnson JA. Design and Development of a shoulder testing simulator. Sister Mary Doyle Research Day, Lawson Health Research Institute, London Ontario 2004.
  22. Kedgley, AE, Ferreira LM, King GJW, Faber KJ, Drosdowech DS, Johnson JA. Design and Development of a shoulder testing simulator. Margaret P. Moffat Graduate Research Day, University of Western Ontario, London Ontario 2004
  23. Viskontas D, MacDermid, Faber K, Drosdowech D. Lateral Acromion Angle: Do x-ray and MRI interpretations correlate and is it a reliable method of acromion morphology assessment? 9<sup>th</sup> International Congress on Surgery of the Shoulder. Washington DC. May 2004
  24. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Cyclic Loading of Rotator Cuff Repairs: An In Vitro Biomechanical Comparison of Bioabsorbable Anchors with Transosseous Sutures. 9<sup>th</sup> International Congress on Surgery of the Shoulder. Washington DC. May 2004
  25. Bicknell R, Drosdowech D, Faber K, King G, Ferreira L, Johnson J. Computer Assisted Shoulder Hemiarthroplasty for Fractures of the Proximal Humerus. COA Calgary June 2004.
  26. Viskontas D, MacDermid, Faber K, Drosdowech D. Lateral Acromion Angle: Do x-ray and MRI interpretations correlate and is it a reliable method of acromion morphology assessment? 11<sup>th</sup> Meeting of the Combined Orthopaedic Associations. Sydney Australia, October 2004.
  27. Bicknell R, DeLude JA, Ferreira LM, King GJW, Johnson JA, Faber KJ, Drosdowech DS: Computer Assisted Shoulder Hemiarthroplasty for Fractures of the Proximal Humerus. 11<sup>th</sup> Meeting of the Combined Orthopaedic Associations. Sydney Australia, October 2004.
  28. Kim JYS, Chang DC, Temple CLF, Beahm EK, Robb GL. *Free TRAM flap breast reconstruction in patients with prior abdominal suction-assisted lipectomy* American Society of Reconstructive Microsurgery, Palm Springs, California, 2004.
  29. Temple CLF, Langstein HL, Strom EA, Youssef A. Choice of recipient vessels in delayed TRAM flap breast reconstruction after radiotherapy. Canadian Society of Plastic Surgery National Meeting, Hamilton, ON June, 2004.
  30. Temple CLF, Arlette JP Mohs micrographic surgery in the treatment of lentigo maligna and melanoma. Canadian Society of Plastic Surgery National Meeting, Hamilton, ON, June, 2004.
  31. Alsafadi S, Temple CLF, Ross DC. Arm Replantation in pregnancy. MANUS Canada Annual Scientific Meeting, Hamilton, ON, June 2004.
  32. Seal A, Temple CLF, Tse R, Hammond A. Application of sentinel node biopsy and limb salvage surgery for epithelioid sarcoma of the hand. MANUS Canada Annual Scientific Meeting, Hamilton, ON, June 2004.
  33. Temple CLF. Ross Tilley Fellowship Lecture. Managing melanoma: What I learned from other specialties. Canadian Society of Plastic Surgery National Meeting, Hamilton, ON, June, 2004.
  34. Tse R, Temple CLF, Bettger-Hahn M, MacDermid J, Gan BS, Ross DC. The innervated TRAM flap for breast reconstruction: Is it worthwhile? Groupe pour l'Avancement de la Microchirurgie Canada (GAM), Hamilton, ON, June 2004.

35. Nguyen D, Proper SJW, MacDermid JC, King GJW, Faber KJ. Arthroscopic release is safe and effective in the treatment of elbow contracture. Arthroscopy Association of North America Annual Mtg. Orlando FL USA. April 24, 2004.
36. Bicknell RT, DeLude, LM Ferreira, CE Dunning, GJW King, JA Johnson, KJ Faber, D Drosdowech. Computer-assisted shoulder hemiarthroplasty for fractures of the proximal humerus: an *in vitro* comparison with traditional methods. Canadian Orthopedic Association 59<sup>th</sup> Annual Meeting, Calgary AB. June 18, 2004.
37. Nguyen D, Proper SJW, MacDermid JC, King GJW, Faber KJ. Arthroscopic release is safe and effective in the treatment of elbow contracture. Canadian Orthopedic Association 59<sup>th</sup> Annual Meeting, Calgary AB. June 18, 2004.
38. Faber KJ, Macdermid J, King GJW. Modular radial head arthroplasty is an effective treatment for comminuted radial head fractures. 9<sup>th</sup> Congress of the International Federation of Societies for Surgery of the Hand. Budapest, Hungary. June 16, 2004.
39. Lowden C, Attiah MT, MacDermid JC, Garvin G, Faber KJ. The prevalence of wrist ganglia in an asymptomatic population: MRI evaluation. 11<sup>th</sup> annual meeting of the Combined Orthopaedic Associations. Sydney Australia. October 24-29, 2004.
40. Bicknell RT, DeLude, LM Ferreira, CE Dunning, GJW King, JA Johnson, KJ Faber, D Drosdowech. Computer-assisted shoulder hemiarthroplasty for fractures of the proximal humerus: an *in vitro* comparison with traditional methods. 11<sup>th</sup> annual meeting of the Combined Orthopaedic Associations. Sydney Australia. October 24-29, 2004.
41. Bicknell RT, Harwood JC, Ferreira L, King GJW Johnson JA, Faber KJ, Drosdowech D: Cyclic Loading of Rotator Cuff Repairs: An *in vitro* Biomechanical Comparison of Bioabsorbable Anchors with Transosseous Sutures. The 50<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, February 2004.
42. Gofton WT, Gordon KD, Dunning CE, Johnson JA, King GJW: Soft Tissue Stabilizers of the Distal Radioulnar Joint: An In-Vitro Study. The 50<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, February 2004. (Poster)
43. Gofton WT, Gordon KD, Dunning CE, Johnson JA, King GJW: In-Vitro Comparison of Distal Radioulnar Joint Reconstructions. The 50<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, February 2004.
44. Skrinkas TV, Viskontas DG, Ferreira L, King GJW, Johnson JA, Chess DG: The Effect of Sub-Physiologic Loading on the Medial-Lateral Load Balance Following Knee Arthroplasty: An In-Vitro Model. The 50<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, February 2004. (Poster)
45. Beingessner DM, Stacpoole RA, Dunning CE, Johnson JA, King GJW: The Effect of Coronoid Fractures on Elbow Joint Kinematics and Stability. The 50<sup>th</sup> Annual Meeting of the Orthopaedic Research Society, San Francisco, February 2004.
46. Nyguen D, Proper S, MacDermid JC, King GJW, Faber KJ: Arthroscopic Release is Safe and Effective in the Management of Elbow Contracture, 23<sup>rd</sup> Annual Meeting Arthroscopy Association of North America, Orlando, FL (Recipient of Resident/Fellow Essay Award in Clinical Science)
47. Faber KJ, MacDermid J, King GJW: Modular Metal Radial Head Arthroplasty is an Effective Treatment for Comminuted Radial Head Fractures. 9<sup>th</sup> Congress of the International Federation of Societies for Surgery of the Hand, Budapest, Hungary, June 2004.
48. Stacpoole RA, Guerra S, Johnson JA, King GJW: The Effect of Radial Head Implant Head Offset and Tilt on Active Forearm Kinematics In-Vitro. 59<sup>th</sup> Annual Meeting of the American Society for Surgery of the Hand, New York, New York, Sept 2004. (Poster)

49. Brownhill JR, King GJW, Johnson JA: Anatomic Axes of the Distal Humerus with Relevance to Elbow Implant Design. 59<sup>th</sup> Annual Meeting of the American Society for Surgery of the Hand, New York, New York, Sept 2004. (Poster)
50. Dubberly J, Faber K, Patterson SD, King GJW: Magnetic Resonance Imaging and Computed Tomographic Arthrography Have Limited Utility for the Detection of Loose Bodies in the Elbow. . 59<sup>th</sup> Annual Meeting of the American Society for Surgery of the Hand, New York, New York, Sept 2004. (Poster)

### **Invited Lectures 2004**

1. Gan BS. American Society of Hand Therapists, Charlotte NC, USA  
Oct 2004. Instructional course lecturer: Wound healing and hand rehabilitation.
1. Drosdowech D. Failed Rotator Cuff Repair. Manitoba Orthopaedic Symposium Winnipeg, Manitoba. October 2004.
2. Drosdowech D. Reverse Shoulder Arthroplasty, Manitoba Orthopaedic Symposium Winnipeg, Manitoba. October 2004.
3. Drosdowech D. Proximal Humeral Fractures: Lessons Learned, Manitoba Orthopaedic Symposium Winnipeg, Manitoba. October 2004.
4. Drosdowech D. Rotator Cuff Tear Arthropathy. Delta ® Reverse Shoulder Learning Centre  
CSTAR Lab. University of Western Ontario. London, Ontario. June 2004.
5. Drosdowech D. Reverse Shoulder Prosthesis, Design & Rationale Delta ® Reverse Shoulder Learning  
Centre . CSTAR Lab. University of Western Ontario. London, Ontario. June 2004.
6. Drosdowech D. Management of Failed Rotator Cuff Tears. AAOS Open and Arthroscopic Techniques in  
Shoulder Surgery #3502. February 2004. OLC Rosemont, Illinois.
7. Temple CLF Isolated Limb Infusion (ILI) as an alternative to Isolated Limb Perfusion (ILP) for in transit  
melanoma Manitoba Cancer Care Grand Rounds, Winnipeg, Manitoba, April 2004.
8. Temple CLF Perimeter technique in staged excision of lentigo maligna. Department of Surgery Grand  
Rounds, University of Manitoba, Winnipeg Manitoba, April 2004.
9. Temple CLF Mohs micrographic excision of nonmelanoma skin cancer. Department of Surgery Grand  
Rounds, University of Manitoba, Winnipeg Manitoba, April, 2004.
10. Temple CLF. Ross Tilley Fellowship Lecture. Managing melanoma: What I learned from other specialties.  
Canadian Society of Plastic Surgery National Meeting, Hamilton, ON, June, 2004.
11. Temple CLF Isolated Limb Infusion (ILI) as an alternative to Isolated Limb Perfusion (ILP) for in transit  
melanoma: Pearls and Pitfalls of an Early Experience Melanoma Update, Toronto, Ontario, 2004
12. Faber KJ. The treatment of elbow stiffness, Visiting Professor, Johannes Gutenberg Universitat Mainz,  
Germany, June 11, 2004.
13. Faber KJ. Scaphoid Fracture Current Concepts, Instructional Course Lecture, Canadian Orthopaedic  
Association 59<sup>th</sup> Annual Meeting. June 18, 2004. Calgary Alberta.
14. Faber KJ. Distal Radius Fracture Current Concepts, Symposium. Canadian Orthopaedic Association 59<sup>th</sup>  
Annual Meeting, June 19, 2004. Calgary, AB.
15. Faber KJ Ulnar Shortening Osteotomies – Live Surgery Moderator. Canadian Orthopaedic Association 59<sup>th</sup>  
Annual Meeting, June 18, 2004, Calgary, AB.
16. King GJW. Visiting Professor. Wellington School of Medicine. University of Otago  
Wellington, New Zealand.

18. King GJW. The Unstable Elbow – Anatomy, Biomechanics and Treatment. Instructional Course  
71<sup>st</sup> Annual Meeting, American Academy of Orthopaedic Surgeons. San Francisco, March 2004.
19. King GJW. Management of Periarticular Unstable Elbow Fractures. Instructional Course  
71<sup>st</sup> Annual Meeting, American Academy of Orthopaedic Surgeons. San Francisco, March  
Instructional Course
20. King GJW. Arthroscopic Management of the Arthritic Elbow. Instructional Course  
71<sup>st</sup> Annual Meeting, American Academy of Orthopaedic Surgeons. San Francisco, March  
Instructional Course.
21. King GJW. The Upper Extremity: Consensus and Controversies for the Practicing Surgeon  
Point-Counterpoint: Total Elbow Arthroplasty. Specialty Day, American Society for Surgery of the Hand.  
San Francisco, March 2004.
22. King GJW. Radial Head Fractures: From Bench to Bedside. Hutt Hospital  
Wellington School of Medicine. Wellington, New Zealand, April 2004.
23. King GJW. Distal Humeral Fractures. Hutt Hospital  
Wellington School of Medicine. Wellington, New Zealand, April 2004.
24. King GJW. Taming the Terrible Triad. Hutt Hospital  
Wellington School of Medicine. Wellington, New Zealand, April 2004.
25. King GJW. Management of the Stiff Elbow. Hutt Hospital  
Wellington School of Medicine. Wellington, New Zealand, April 2004.
26. King GJW. Arthroscopic Management of Elbow Arthritis. Hutt Hospital  
Wellington School of Medicine. Wellington, New Zealand, April 2004.
27. King GJW. Arthroscopic Management of Elbow Arthritis. Hutt Hospital  
Wellington School of Medicine. Wellington, New Zealand, April 2004.
28. King GJW. The Current Status of the Canadian Health Care System  
The Good, the Bad and the Ugly. Dean's Lecture. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
29. King GJW. Management of Distal Humeral Fractures  
Central Region One Day Meeting. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
30. King GJW. Capitellum and Trochlea Fractures  
Central Region One Day Meeting. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
31. King GJW. Elbow Arthroscopy: Technique and Indications  
Central Region One Day Meeting. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
32. King GJW. Management of the Stiff Elbow  
Central Region One Day Meeting. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
33. King GJW. Radial Head Fractures  
Central Region One Day Meeting. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
34. King GJW. Distal Radio-ulnar Joint Arthroplasty  
Central Region One Day Meeting. Wellington School of Medicine  
Wellington, New Zealand, April 2004.
35. King GJK. Tennis Elbow.  
Central Region One Day Meeting. Wellington School of Medicine

Wellington, New Zealand, April 2004

36. King GJK. Forearm Stiffness Following Radial Head Fractures  
Mayo Elbow Club. Rochester MN, May 2004
37. King GJK. Radial Head Fracture Overview. Mayo Elbow Surgical Skills Course  
Rochester MN, May 2004
38. King GJK. ORIF Radial Head Fractures. Mayo Elbow Surgical Skills Course  
Rochester MN, May 2004.
39. King GJK. Complex Elbow Instability. Italian Shoulder and Elbow Society  
Modena Italy, June 2004.
40. King GJK. Evolve Radial Head Prosthesis. Italian Shoulder and Elbow Society  
Modena Italy, June 2004.
41. King GJK. Arthroscopic Management of Intrinsic Contractures of the Elbow.  
Italian Shoulder and Elbow Society. Modena Italy, June 2004
42. King GJK. Management of Valgus Instability of the Elbow Following Radial Head Resection.  
Italian Shoulder and Elbow Society  
Modena Italy, June 2004.
43. King GJK. Complex Dislocation of the Elbow Without Fracture  
'East Meets West' Post IFSSH Congress 2004  
Bucharest Romania, June 2004
44. King GJK. Radial Head Implants  
'East Meets West' Post IFSSH Congress 2004  
Bucharest Romania, June 2004.
45. King GJK. Total Elbow Arthroplasty: What's New?. 50<sup>th</sup> Annual Meeting South African  
Orthopaedic Association. Pretoria, South Africa, September, 2004
46. King GJK. Arthroscopic Management of Elbow Arthritis. 50<sup>th</sup> Annual Meeting South African  
Orthopaedic Association. Pretoria, South Africa, September, 2004
47. King GJK. Management of Displaced Radial Head Fractures 50<sup>th</sup> Annual Meeting South African  
Orthopaedic Association. Pretoria, South Africa, September, 2004.
48. King GJK. Radial Head Fractures: ORIF versus Replacement. The Calgary Shoulder and  
Elbow Course. Calgary, Alberta, September, 2004
49. King GJK. Design Considerations of Total Elbow Arthroplasty. The Calgary Shoulder and  
Elbow Course. Calgary, Alberta, September, 2004.
50. King GJK. Elbow Instability: Anatomy and Biomechanics The Calgary Shoulder and  
Elbow Course. Calgary, Alberta, September, 2004.
51. King GJK. Linkable Total Elbow Arthroplasty Elbow Reconstruction: Arthroscopy, Instability  
American Academy of Orthopaedic Surgeons. Chicago, Illinois, October, 2004
52. King GJK. Therapeutic Arthroscopy of the Elbow . Arthroscopy of the Elbow Workshop Advances  
in Elbow Surgery. Wrightington Hospital, University of Manchester  
Wigan, England, November 2004.
53. King GJK. Elbow Arthroscopy in the Athlete. Arthroscopy of the Elbow Workshop  
Advances in Elbow Surgery. Wrightington Hospital, University of Manchester  
Wigan, England, November 2004.
54. King GJK. Arthroscopic Capsular Release of the Elbow. Arthroscopy of the Elbow Workshop  
Advances in Elbow Surgery. Wrightington Hospital, University of Manchester  
Wigan, England, November 2004.
55. King GJK. Arthroscopic Management of Elbow Arthritis. Arthroscopy of the Elbow Workshop

Advances in Elbow Surgery. Wrightington Hospital, University of Manchester  
Wigan, England, November 2004.

56. Chinchalkar SJ December – 2004 – “ Guest Faculty ” at the 49<sup>th</sup> Annual conference of the Indian Orthopaedic Association presenting “Clinical Application of Continuous Passive Motion in Upper Extremity Rehabilitation”, Agra, India.
57. Chinchalkar SJ December – 2004 – “Management of Wrist and Elbow Trauma“ one day seminar at the Nagpur Medical College and Hospital, Nagpur University, Nagpur, India.
58. Chinchalkar SJ December – 2004 – “December – 2004 – “Physiology of Joint Motion” – at the G.H.Raisoni International University, Nagpur, India.
59. Chinchalkar SJ October – 2004 – “ The Diagnosis and Management of Chronic Wrist Pain” and “ Phases of Wound Healing and Clinical Decision Making in Hand Therapy” instructional courses at the 27<sup>th</sup> annual meeting of the American Society of Hand Therapists, Charlotte, NC, USA
60. Chinchalkar SJ September 2004 – “ Therapeutic Management of CRPS” – Half day session to WSIB case workers and nurses, London, Ontario, Canada
61. Chinchalkar SJ August 2004 – “ Webinar on Biomechanics of Extensor Tendon Injuries” – One and half hour seminar on the Web, organised by ASHT.
62. Chinchalkar SJ July 2004 – “Pathomechanics & Management of Wrist and Hand Deformities in Rheumatoid Arthritis - One and half day course at the Southern General Hospital, Glasgow, Scotland UK.
63. Chinchalkar SJ. June 2004 – “ Keynote Speaker” presented “ Management of Complex Regional Pain Syndrome at the International Federation of Societies of Hand Therapists conference in Edinburgh, Scotland, UK.
64. Chinchalkar SJ. June 2004 – “ Classification of Dorsal Lip PIP Joint Fractures”, “ Double Reverse Kleinert Splinting for Extensor Tendons Repairs in Zone VI-VIII” and “Functional Significance of the Small Finger” at the International Federation of Societies of Hand Therapists conference in Edinburgh, Scotland, UK.
65. Chinchalkar SJ. June 2004 – “Pathomechanics and Management of Secondary Complications following Flexor Tendon Repair” at the annual meeting of Canadian Society for the Surgery of the Hand ( MANUS), Hamilton, Ontario, Canada.
66. Chinchalkar SJ . April 2004 – “Management of Brachial Plexus Injuries” and “ Management of Peripheral Nerve Injuries” at one-day symposium on Peripheral Nerve Injuries conducted at The St. Joseph’s Health Care London, London, Ontario, Canada
67. Chinchalkar SJ. March 2004 – “ Management of Sports Related Injuries of the Hand” – Conducted one hour rounds at the Fowler Kennedy Sports Medicine Clinic at The University of Western Ontario. London, Ontario
68. Chinchalkar SJ. January 2004 – “ Advanced Clinical Education in Hand Therapy” – A Two day Seminar to Physiotherapists, Occupational Therapists, and Plastic & Orthopaedic Surgery residents at Nagpur Medical College & Hospital, Nagpur University, India.
69. MacDermid JC. . Evaluation of peripheral nerve injuries. Peripheral Nerve Course. London Ontario, April 2004
70. Richards RS. Nerve anatomy and pathophysiology of peripheral nerve injuries. Peripheral Nerve Course. London Ontario, April 2004.
71. Ross DC. Diagnosis and management of brachial plexus injuries. Peripheral Nerve Course. London Ontario, April 2004.
72. Chinchalkar S. Management of brachial plexus injuries. Peripheral Nerve Course. London Ontario, April 2004.
73. Faber KJ. Entrapment neuropathies of the shoulder. Peripheral Nerve Course. London Ontario, April 2004.

74. Gan BS. Common nerve injuries of the elbow and hand tendon transfers. Peripheral Nerve Course. London Ontario, April 2004.
75. Chinchalkar S. Management of nerve injuries in the elbow and hand. Peripheral Nerve Course. London Ontario, April 2004.
76. Ross DC. Update on replantation. Canadian Society for Reconstructive Microsurgery .Annual Scientific Meeting, Hamilton, Ontario, 2004

#### **Committees and Grant Reviewers 2004**

1. Johnson J. Member of the NSERC Mechanical Engineering Grant Selection Committee. June 2004-June 2007.
2. Gan BS. Mar 2004 Competition Parkwood Hospital Foundation External Grant reviewer
3. Gan BS. Sep 2004 Competition Canadian Institutes of Health Research. External Grant reviewer
4. Gan BS. Ontario Society of Plastic Surgeons. 2004 – Present Secretary
5. Gan BS Ontario Medical Association 2004 - Present Secretary, Section of Plastic Surgery
6. Gan BS. Canadian Society for Clinical Investigation 2004 – Present UWO Representative on Council
7. Gan BS Canadian Society for Clinical Investigation 2004 - Present Awards Committee
8. Gan BS Wound Healing Society 2004 - Present Education Committee, Member
9. Drosdowech D. Delta Shoulder Course-CSTAR, UWO, London ON 2004- Course organization
10. Drosdowech D. Review Board, Arthroscopy The Journal of Arthroscopic and Related Surgery November 2004
11. Drosdowech D AAOS Open and Arthroscopic Shoulder Course- American Academy of Orthopedic Surgery Learning Center, Chicago II, USA 2004-1 lecture given-Cadaver Lab instructor
12. Drosdowech D Fellows Shoulder Arthroscopy Lab- LHRI Surgical Skills Nov 2004, course supervisor and instructor - 6 hours
13. Drosdowech D Fellows Shoulder Arthroscopy Lab- LHRI Surgical Skills May 2004, course supervisor and instructor – 8 hours
14. Drosdowech D Manitoba Orthopedic Symposium- Winnipeg, MB, Oct. 2004- 3 lectures given
15. MacDermid JC Member JOINTS (Joint Orthopaedic Initiative for National Trials of the Shoulder) Canada
16. MacDermid JC Scientific and Clinical Papers Chair, American Society of Hand Therapists Annual Meeting
17. MacDermid JC. Division Director (Research) , American Society of Hand Therapists
18. MacDermid JC Chair Research Committee, American Society of Hand Therapists
19. MacDermid JC. Journal Reviewer. Journal of Hand Surgery
20. MacDermid JC . Journal of Rheumatology. Journal Reviewer
21. MacDermid JC. Grant Reviewer. American Society of Hand Therapists, Evelyn Mackin Grant
22. Ross DC. Examiner, Plastic Surgery. Royal College of Physicians and Surgeons of Canada
23. Ross DC. Judge, “Residents’ Corner” Annual Scientific Meeting. Canadian Society of Plastic Surgeons
24. Ross DC. Physicians Services Incorporated Foundation. Grant Application Reviewer
25. Ross DC. Chair, Scientific Program Committee Canadian Society for Surgery of the Hand

## Grants 2004

1. MacDermid JC. CIHR Salary grant. 2004-2009      New Investigator Career Award, Canadian Institute for Health Research. *Understanding how characteristics of the patient, injury and health care influence disablement and recovery following a distal radius fracture*
2. Gan BS. UWO Department of Surgery. Clinician-Scientist Salary Award. 2004-2007
3. Gan BS Schulich School of Medicine and UWO Faculty of Medicine and Dentistry. Dean's Fund Salary Award. 2004-2009
4. Gan BS, Howard JC Micro-array analysis of Dupuytren's contracture.: Lawson Health Research Institute Internal Research Fund ( \$ 15,000 2004-2005)
5. Agency: UWO Department of Surgery Internal Research Fund Competition  
Topic: Development of a new model for microsurgical skills acquisition  
Amount: \$15, 136. Investigators: CLF Temple, DC Ross, KJ Faber.
6. Faber KJ (PI), Johnson J, King GJW, Kedgley A. Development of a shoulder simulator. Lawson Health Research Institute – internal funding competition. January 2004. \$14,400.
7. Drosdowech D. LHRI- \$14000
8. "Kinematics and Stabilizers of the Elbow" Canadian Institutes of Health Research.  
King GJW, Johnson JA. \$529,770