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)
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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**

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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


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)


Published Abstracts 2004

Books and Book Chapters 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-β2 effects on Dupuytren’s contracture cells 2004 Dr. RM McFarlane Research AwardUniversity 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
14. King GJW The H.S. Cameron Award for Teaching Excellence. University of Western Ontario
   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


46. Nyguen D, Proper S, MacDermid JC, King GJW, Faber KJ: Arthroscopic Release is Safe and Effective in the Management of Elbow Contracture, 23rd 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. 9th Congress of the International Federation of Societies for Surgery of the Hand, Budapest, Hungary, June 2004.


**Invited Lectures 2004**


8. 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.


24. King GJW. Taming the Terrible Triad. Hutt Hospital 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.

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
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?. 50th Annual Meeting South African
   Orthopaedic Association. Pretoria, South Africa, September, 2004
46. King GJK. Arthroscopic Management of Elbow Arthritis. 50th Annual Meeting South African
   Orthopaedic Association. Pretoria, South Africa, September, 2004
47. King GJK. Management of Displaced Radial Head Fractures 50th Annual Meeting South African
48. King GJK. Radial Head Fractures: ORIF verses Replacement. The Calgary Shoulder and
   Elbow Course. Calgary, Alberta, September, 2004
49. King GJK. Design Considerations of Total Elbow Arthroplasty. The Calgary Shoulder and
50. King GJK. Elbow Instability: Anatomy and Biomechanics The Calgary Shoulder and
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
53. King GJK. Elbow Arthroscopy in the Athlete. Arthroscopy of the Elbow Workshop
    Advances in Elbow Surgery. Wrightington Hospital, University of Manchester
54. King GJK. Arthroscopic Capsular Release of the Elbow. Arthroscopy of the Elbow Workshop
    Advances in Elbow Surgery. Wrightington Hospital, University of Manchester
55. King GJK. Arthroscopic Management of Elbow Arthritis. Arthroscopy of the Elbow Workshop


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 – “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 27th 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.


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.


Committees and Grant Reviewers 2004
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
11. Drosdowech D AAOS Open and Arthroscopic Shoulder Course- American Academy of Orthopedic Surgery Learning Center, Chicago Il, 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
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
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*


3. Gan BS Schulich School of Medicine and UWO Faculty of Medicine and Dentistry. Dean’s Fund Salary Award. 2004-2009


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.


7. Drosdowech D. LHRI- $14000

8. “Kinematics and Stabilizers of the Elbow” Canadian Institutes of Health Research.
   King GJW, Johnson JA. $529,770