

**THE UNIVERSITY OF BRITISH COLUMBIA***Curriculum Vitae for Faculty Members***Date:** October 20121. **SURNAME:** Younger **FIRSTNAME:** Alastair **MIDDLE NAME(S):** Stephen E.2. **DEPARTMENT/SCHOOL:** Orthopaedics3. **FACULTY:** Medicine4. **PRESENT RANK:** Associate Professor **SINCE:** July 20095. **POST-SECONDARY EDUCATION**

University or Institution	Degree	Subject Area	Dates
Aberdeen University, Scotland	MB, ChB	Medicine	1980 – 1985
Simon Fraser University	MSc	Kinesiology	1988 – 1990
Aberdeen University	ChM	Surgery	May 1997
University of British Columbia	FRCSC	Orthopaedic residency	1990-1995

(b) *Title of Dissertation and Name of Supervisor*(c) *Continuing Education / Training (Postgraduate)*

University or Institution	Rank or Title	Dates
University of British Columbia	Total Joint Arthroplasty fellowship	July – Dec 1995
Harvard University, Boston	Arthritis surgery fellowship	Nov 1996 to July 1997
University of Washington	Foot and ankle fellowship	Aug 1997-Jan 1998

(d) *Continuing Medical Education*

University or Institution	Type (Grand Rounds or what??)	Detail (e.g. latest advance in gene therapy)	Date

(e) *Special Professional Qualifications*

Fellow of the Royal College of Physicians and Surgeons of Canada, November 1995

Fellow of the American Academy of Orthopaedic Surgeons, July 1998

Founding member and member of Canadian Orthopaedic Foot and Ankle Society, June 2002 to present

Fellow of the American Orthopaedic Foot and Ankle Society, July 1998 until present

Fellow of the Arthroscopy Association of North America, June 2002 to present

## **6.EMPLOYMENT RECORD**

### *(a) Prior to coming to UBC*

<b>University, Company or Organization</b>	<b>Rank or Title</b>	<b>Dates</b>
Woodend General Hospital, Aberdeen, Scotland	Junior House Officer	Aug 1985 - Jul 1986
General Surgery on the West Lothian Rotation, Edinburgh, Scotland	Senior House Officer	Aug 1986 - Aug 1988
Simon Fraser University, Burnaby, BC	Teaching Assistant	Sep 1988 - Jun 1990
Vancouver Hospital and Health Sciences Centre, Vancouver	Locum Reconstructive Orthopaedic Surgeon	Jan 1996 - July 1996
Royal Columbian Hospital, Vancouver	Locum Trauma Surgeon	Aug 1996 - Sep 1996

### *(b) At UBC*

<b>Rank or Title</b>	<b>Dates</b>
Clinical Instructor	July 1998 to July 2003
Clinical Associate Professor	July 2003 to July 2009
Associate Professor	July 2009-

### *(c) Date of granting of tenure at UBC*

## **7. LEAVES OF ABSENCE**

<b>University, Company or Organization at which Leave was taken</b>	<b>Type of Leave</b>	<b>Dates</b>
North American Traveling fellowship	Academic	October to November 1997
ABC (American British Canadian) Traveling fellowship	Academic	April to May 2007

## **8. TEACHING**

### *(a) Areas of special interest and accomplishments*

Director, resident education, foot and ankle, July 1998 until July 2009

Director, resident education, foot and ankle, July 2012 until present

Director and founder, Foot and ankle fellowship, July 2010 until July 2006

### **SUMMARY OF TEACHING DOSSIER:**

#### Undergraduate Education .

I have served on the 4<sup>th</sup> year undergraduate committee. This is to act as a representative to the medical school for the department of Orthopaedics final year students and review their electives.

I have also been involved in education of students on physical exam within Orthopaedics. The physical exam of the foot and ankle is currently on file at the University.

I have been involved in clinical teaching of medical students since 1998. Teaching has included physical exam, lectures on foot and ankle exam, and clinical teaching at St. Paul's hospital. The medical students have been educated at Trauma rounds and Foot and Ankle rounds. Medical students have also attended the Foot and Ankle Clinic.

I have been on the year 4 committee as the Orthopaedic representative since March 2008 until September 2010.

Graduate Education (In Orthopaedics residents are equivalent to Graduate Students in basic science Departments)

Residents have attended the Foot and Ankle Service at St. Paul's Hospital, which was established by myself, since 1998. An increasing number of resident rotations have been completed, 9 in 2009 to 2010, 9 in 2010 to 2011, with 13 UBC residents performing rotations in 2011 to 2012, and three visiting residents attending between 2010 and 2012.

I have been involved with final year resident Royal College exam preparation annually since 1998.

Resident teaching has been based on Foot and Ankle Rounds taught every Thursday morning. The Orthopaedic residency teaching in foot and ankle was conceived by myself in 1998. I have recently resumed the role of supervising resident teaching at St. Paul's in July 2012. I have posted the educational material on the SPHORTHO website (<http://www.sphortho.com>) and encouraged the lecture part of training to be reviewed prior to the round. Multiple-choice questions from national and international exams are used as a pretest and post-test. The main teaching round is case based as requested by the residents.

I have supervised residents in their Orthopaedic careers and encouraged those interested to follow a career in Foot and Ankle surgery. As a result of this and the development of a fellowship program in Orthopaedics the number of subspecialty Foot and Ankle surgeons in British Columbia is now 15. When I first started practice in 1998, I was the only one. This is an example of how education has been translated to better patient care with these 15 surgeons servicing a huge unmet need for foot and ankle care in British Columbia.

Of the 66 residents graduating since 1998, I have supervised 6 with research projects, and 10 (Veri, Baggoo, Wing, Dryden, Van Bergyk, Pinney, Ball, Apostle, Wang, Calvert) have chosen a career in Foot and Ankle Surgery. All but 3 have remained in British Columbia and one is completing his fellowship training at the present time.

I was involved in the resident selection process in 2009. I have also served on the Residency Program Committee since 2002 in various roles (distal extremity division leader, foot and ankle representative, St. Paul's site representative).

Postgraduate Education – Fellowship education

The fellowship program was started in 2000 and initiated by myself in collaboration with the Department of Orthopaedics, Dr. Clive Duncan and Dr. Bas Masri. The supervision of the program was performed by Dr. Penner from 2006 to 2012, and currently is supervised by Dr. Kevin Wing.

Thirty fellows have been trained to date. Financial support for overseas fellows was obtained in 2005 and has been maintained since. We have taken part in the US fellowship match in 2011 and 2012. The fellowship program at UBC in foot and ankle is very highly ranked nationally and internationally.

### Postgraduate Education – Primary Care Provider Education

Primary care remains a major component of foot and ankle care. I have been involved in primary care lectures and demonstrations on many occasions. In conjunction with Dr. Murray Penner, Dr. Kevin Wing and Cheryl Bishop (Former Surgical program leader at Providence Health Care) we have initiated a General Practice foot and ankle screening and triage (FAST) clinic. This clinic provides better access to care for patients using General Practitioners with a subspecialty interest. We have been asked to assist in creating similar clinics in Victoria and Ottawa.

Webinars to educate primary care physicians is a current focus of training. Over the years I have found education of primary care a challenge in understanding the knowledge needed. I was pleased to learn that I achieved the highest rank of audience satisfaction the Department of Family Medicine’s “CME on the run” on June 2<sup>nd</sup> 2012.

### Postgraduate Education – Surgeon education

Postgraduate education has also involved a number of national and international activities. The Canadian orthopaedic foot and ankle society symposium was first held in Vancouver in 2003, being repeated in 2005, 2007, 2011 and is planned for 2013. I have supervised this course until 2011 and then handed on the chairmanship of this meeting to Dr. Kevin Wing.

I have supported arthroscopic education by running the fall arthroscopy course for the Arthroscopy Association of North America, and I been a Master instructor for the Association in Chicago for 5 years in a row. I have been on the Education Committee of the American Orthopaedic Foot and Ankle Society for 5 years.

### Patient Education.

Patient education remains a constant challenge. If a surgeon claims that a patient is non compliant, I will challenge that his education material was not focused on the patient as no patient willingly compromised the outcome of an operation.

Over the years we have formed a comprehensive patient education program in collaboration with Providence Health Care. These efforts were recognized when we were awarded the 3 M award in 2004.

### *(b) Courses Taught at UBC*

Year	Session	Course Number	Scheduled Hours	Class Size	Hours Taught			
					Lectures	Tutorials	Labs	Other
1997-1998	Second year clinical skills course	ORPA 420	10	5		10		
2004-2005	Second year clinical skills course	ORPA 420	10	60	1			Lecture clinical exam
2005-2006	Second year clinical skills	ORPA 420	10	60	1			Lecture clinical exam

	course							
2006-2007	Second year clinical skills course	ORPA 420	10	5		10		
2007-2008	Second year clinical skills course	ORPA 420	10	5		10		
2008-2009	Second year clinical skills course	ORPA 420	10	5		10		
2009-2010	Second year clinical skills course	ORPA 420	10	5		10		
2010-2011	Second year clinical skills course	ORPA 420	10	5		10		
2011-2012	Second year clinical skills course	ORPA 420	10	5		10		
1998-1999	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
1999-2000	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2000-2001	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2001-2002	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2002-2003	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2003-2004	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2004-2005	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics

2005-2006	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2006-2007	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2007-2008	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2008-2009	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2009-2010	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2010-2011	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
2011-2012	MSI rotation	ORPA 430	1-2 week blocks	1				Attending OR and clinics
September 1998		ORPA 508/509			Ankle and Hindfoot Abnormalities			
September 1998		ORPA 508/509			“Management of Hallux Valgus”			
January 1999		ORPA 508/509			Ankle and Hindfoot Abnormalities”			
18 <sup>th</sup> November 1999		ORPA 508/509			“Osteocondritis disicans and cartilage defects”			
February 3 <sup>rd</sup> , 2000		ORPA 508/509			“Adult Forefoot Deformities”			
February 10 <sup>th</sup> 2000		ORPA 508/509			Fractures and Dislocations of the Foot and Ankle”			
March 23 <sup>rd</sup> 2000		ORPA 508/509			The diabetic foot”			
September 7 <sup>th</sup> 2000		ORPA 508/509			Management of Adult flat foot”			
September 7 <sup>th</sup> 2000		ORPA 508/509			“Cavus foot”			
September 7 <sup>th</sup> 2000		ORPA 508/509			“Arthritis of the ankle and foot”			
18 <sup>th</sup> January 2001		ORPA 508/509			Arthroscopy of joints other than the knee”			
February 8 <sup>th</sup> 2001		ORPA 508/509			The Rheumatoid foot”			

17 <sup>th</sup> May 2002		ORPA 508/509			“Osteocondritis dissicans and cartilage defects			
September 5 <sup>th</sup> 2002		ORPA 508/509			Management of Adult flat foot			
		ORPA 508/509			Cavus foot			
September 20 <sup>th</sup> , 2002		ORPA 508/509			The Rheumatoid foot: Rheumatology residents seminar			
31 <sup>st</sup> October 2002		ORPA 508/509			Arthritis of the ankle and foot			
February 8th 2003		ORPA 508/509			“The Rheumatoid foot			
November 4 <sup>th</sup> 2005		ORPA 508/509			Surgical principles of amputation			
November 4 <sup>th</sup> 2005		ORPA 508/509			Diabetic foot management			
November 29 <sup>th</sup> 2007		ORPA 508/509			The diabetic foot			
November 29 <sup>th</sup> 2007		ORPA 508/509			Principles of amputation			
January 29 2009		ORPA 508/509			The Cavovarus foot			
January 12 <sup>th</sup> 2012		ORPA 508/509			Forefoot deformity, Cavus foot			
	On-going	ORPA 715						
	On-going	ORPA 716						
	On-going	ORPA 717						
	On-going	ORPA 718						
	On-going	ORPA 719						
	On-going	ORPA 720						
	On-going	ORPA 721						
	On-going	ORPA 722						
	On-going	ORPA 723						
	On-going	ORPA 724						
	On-going	ORPA 725						
	On-going	ORPA 904						

Alastair best to combine the courses as per academic year instead of individual days. We can discuss if this is confusing.

Undergraduate (Medical Students)

ORPA 430 Introduction to Orthopaedics (Clinical Skills II)

Musculoskeletal pathology, including baseline levels of knowledge, skill and attitude, plus surgical exposure to orthopaedic injuries and management.

ORPA 475 Clinical Clerkship in Surgery (Trauma Seminars)

ORPA 508 Physical Examination of the Knee (Clinical Skills II)

Selected topics in orthopaedic surgery and related basic sciences. Given in alternate years

ORPA 509 Orthopaedic Surgery Problem Solving Seminar (Year III)

The second year of the above program which will be given in alternate years.

### Graduate (Residents)

ORPA 715 Evaluation of new patients and diagnosis and treatment of appropriate diseases. Basic signs and clinical features are both stressed in the total management of the patient. Two hours per week in the Outpatient Department under supervision of an orthopaedics faculty member.

ORPA 716 Evaluation of orthopaedic diseases and injuries in patients at bedside. A review of clinical features is correlated with relevant physiology and pathology.

ORPA 717 Formal presentations by the orthopaedic residents, fellows, faculty and guests. Subject matter includes the whole spectrum of orthopaedics.

ORPA 718 Patients with a variety of rheumatological disorders are presented for discussion and evaluation in this combined conference, which rheumatologists and orthopaedic surgeons who have a special interest in reconstructive surgery attend. During each weekly two hour session, patients with difficult management problems are presented for clinical evaluation and discussion of medical and orthopaedic treatment.

ORPA 719 A course in clinical anatomy as applied to orthopaedics. A regional approach involving surgical dissections in cadavers. Each session lasts two hours. Emphasis is on surgical anatomical approach.

ORPA 720 Weekly lectures by orthopaedic faculty and guest faculty from other departments. Lecture topics include applied physiology, anatomy, and pathology as they relate to orthopaedic diseases.

ORPA 721 A series of seminars is given weekly, and during each 2-hour session a topic in clinical orthopaedics is reviewed. The subject matter includes the whole spectrum of orthopaedics. One or more faculty members are in attendance at each seminar.

ORPA 722 Case presentation in paediatric orthopaedics, stressing history, physical findings and total management of the patient, including a review of paediatric fractures with x-rays.

ORPA 723 The practical application of orthopaedics in the operating room with discussion of techniques of surgery, anatomy, pathology, pathophysiology and complications of diseases.

ORPA 724 Orthopaedic traumatology is reviewed, with emphasis being placed on applied basic science, surgical anatomy, diagnosis and definitive management. These sessions are supervised by a faculty member and are held weekly, each session lasting one hour.

ORPA 725 A review of musculoskeletal oncology and related problems with presentation of clinical and laboratory information, radiographs and pathological materials. One and one-half hours monthly



ORPA 904 A series of 60 seminars in orthopaedics and traumatic surgery given over a two-year period: thirty sessions in each of the two years. One evening per week throughout the Winter Session. For post-graduate students proceeding to Certification and Fellowship of the Royal College of Physicians and Surgeons of Canada

(c) *Students Supervised*

*Students supervised through the research office:*

*Since 2002 the following students have been supervised through the research office:*

Student Name	Program Type	Year Start	Year Finish	Principal Supervisor	Co-Supervisor(s)	Current Position/Awards
Cameron Shute	MSc Defense Committee		2002	A Hodgson	B Masri, T Oxland, A Younger	
Kurt McInnes	MSc Defense Committee		2012	Tom Oxland	A. Younger, Wilson.	

(c) *Graduate Students Supervised – Residents*

I have personally supervised all orthopaedic residents who rotate through St. Paul's Hospital in their clinical rotations. In addition, I have specifically supervised the residents in the table below in a research capacity.

Student Name	Program Type	Year	Principal Supervisor	Co-Supervisors(s)
H MacPherson	Paper supervision	June 1996	Alastair Younger	Duncan CP
J M Werier		June 1996	Alastair Younger	AS, Janzen D, Masri BA, Duncan CP
J Dunwoody	Paper supervision	June 1996	Alastair Younger	Duncan C, Masri BA
Van Bergeyk A	Paper supervision	May 14, 1999	Alastair Younger	
Kokan P	Paper supervision	May 14, 1999	Alastair Younger	
P Dryden	Paper supervision	May 24,25,26, 2000	Alastair Younger	B. Swatsky
P Dryden	Paper supervision	June 27,28,29, 2001	Alastair Younger	
H Barske	Paper supervision	Aug 2007	Alastair Younger	
J Mayich	Paper supervision	Aug 2007	Alastair Younger	K Wing
K Apostle	Paper supervision	Oct 2007	Alastair Younger	
K Apostle	Paper supervision	April 2008	Alastair Younger	K Wing, A Younger
J Mayich	Paper supervision	May 2008	Alastair Younger	K Wing, A. Younger
G. Slobogean	Paper supervision	August 2008	Alastair Younger	K. Wing, M. Penner
C. Wang	Paper supervision	August 2011	Alastair Younger	K. Wing, M. Penner
C. Diewert	Paper supervision	July 2012	Alastair Younger	K. Wing, M. Penner

(c) *Students Supervised – Fellows*

Student Name	Program Type	Year	Principal Supervisor	Co-Supervisors(s)
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J P Veri	Paper supervision	Dec 7, 2001	Alastair Younger	
G De Vries	Paper supervision	Nov 29, 2002	Alastair Younger	
H Elgafy	Paper supervision	Nov 29, 2002	Alastair Younger	
M Awwad	Paper supervision	Dec 4, 2003	Alastair Younger	
M Awwad	Paper supervision	Dec 3, 2004	Alastair Younger	
M Manzary	Paper supervision	Dec 2, 2005	Alastair Younger	
C Topliss	Paper #1 supervision	Dec 1, 2006	Kevin Wing	Alastair Younger Murray Penner
C Topliss	Paper #2 supervision	Dec 1, 2006	Alastair Younger	K Wing M Penner
F Krause	Paper supervision	Jan 2008	Alastair Younger	K Wing, M Penner
Di Silvestro	Paper supervision	Feb 2008	Kevin Wing	M Penner, A. Younger
F Krause	Paper supervision	April 2008	Alastair Younger	
Di Silvestro	Paper supervision	April 2008	Alastair Younger	
Satayam Patel	Paper Supervision	August 2008	Tom Goetz	
Mike Bridge	Paper Supervision	August 2008	M Penner	A. Younger, K. Wing
Jane Madeley	Paper Supervision	August 2008	Alastair Younger	M Penner, K. Wing
David Townshend	Paper Supervision	August 2009	Alastair Younger	M Penner, K Wing
Ali Chaudry	Paper Supervision	August 2009	Alastair Younger	M Penner, K. Wing
Patrick Ng	Paper supervision	December 2009	Alastair Younger	Mark Creswell
Amarjit Bajwa	Paper supervision	December 2009	Alastair Younger	
Kalpesh Shah	Paper supervision	August 2010	Alastair Younger	S. Pinney, M. Penner, K. Wing
Hossein Pakzad	Paper supervision	August 2010	M. Penner	A. Younger, S. Pinney, K. Wing
Gow Theventhran	Paper supervision	August 2010	S. Pinney	M. Penner, K. Wing, S. Pinney
Mark Steves	Paper supervision	August 2011	Kevin Wing	Alastair Younger
Heather Barske	Paper supervision	August 2011	Alastair Younger	
Rob Flavin	Paper supervision	August 2011	Alastair Younger	Murray Penner
Marcus Coe	Paper supervision	August 2012	Alastair Younger	Kevin Wing

### Visiting residents, observers and medical students.

#### Residents:

<b>Resident</b>	<b>Dates</b>	<b>Program</b>	<b>Current status</b>
Tina Lefrancois	September 2010	McMaster	Fellowship Halifax
Michael Hickey		Halifax	Surgeon Orillia Ontario
Beth Pedersen		Calgary	University of Alberta – on staff
Christina Bakir	February 2012	Calgary	Final year

Stephen Croft	November 2012	Memorial	Third year
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**Surgeon Observers:**

Name	date	Origin
Markus Walter	July 2007	Germany
N.C. Kwok	January 2012	Hong Kong
S. W. Kong	January 2012	Hong Kong
Francis Chow	January 2012	Hong Kong
Gerhard Smith	June 2012	Fort Worth
S. Tong	October 2012	Hong Kong
Stefan Fielner	October 2012	Germany
Armin Schupp	October 2012	Germany
Chayanin Angthong	February 2013	Tailand

**Visiting fellows:**

- 1 July 2006: American Orthopaedic foot and ankle society travelling fellows. Francisco Javier Garcia, Alicia Vignolo, James Calder, Mark Glazebrook, Peter Stavrou.
2. July 2009: American Orthopaedic foot and ankle society travelling fellows: Zhongmin Shi, Fabian Krause, Dan Farber, Scott Ellis, Roberto Benovi.
3. September 2011: German travelling fellows Sept 23- Sept 30 2011: Patricia Droste, Patrick Delhey, Justus Stadler
4. July 2012: American Orthopaedic foot and ankle society travelling fellows: 2012. July. Christopher Pearce, Xu Wang, Tahir Ogut, Hyong Nyun Kim, Arno Frigg.

**Non UBC Medical students on elective:**

Student	dates	Institution
Kelly Hynes	Nov 16 to 27, 2011	Memorial University, NFD.
David Cameron	Sept 5 to Oct 2, 2010	Peninsula College, UK.
Robert Ravinsky	September 27 to Oct 25 2010	Memorial University, NFD.
Omar Ashur	July 18 to July 29 2011	Dundee University, UK.
Ian Pereira	Nov 28 to Dec 11 2011	Western University, Ontario
Jessica Page	October to November 2011	University of Toronto, Ontario
Karen Vejsbjerg	July 23 to August 17, 2012	Dublin, Ireland

*(d) Continuing Education Activities- (Areas of Special Interest and Accomplishments)*

Role	Location	Year
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Teaching Assistant	Human Anatomy Laboratory, SFU	1989-1990
Coordinator	Resident Education, Division of Reconstruction, Subspecialty - Foot and Ankle UBC Coordinator	1998 - present
Member	Education Committee of the Arthroscopy Association of North America	2002-2006
Member	Residency Training Committee, Orthopaedics, UBC	2002 – present
Member	Program Committee, Canadian Orthopaedic Association	2005-2006
Chairman	Canadian Orthopaedic Foot and Ankle Society Meeting, Vancouver, BC	2003,2005,2007, 2011
Member	Committee for Continued Professional Development, Canadian Orthopaedic Association	2002-2005
Member	Educational Committee, American Orthopaedic Foot and Ankle Society	2007-present
Founder	Foot and Ankle Surgery Fellowship program, St. Paul's Hospital ( <i>30 fellows trained to date. Funding secured through a grant in aid agreement.</i> )	2000
Master Instructor	Foot and Ankle Learning Centre, American Academy of Orthopaedic Surgeons	2006 to present
Member	Residency Selection Committee, UBC Department of Orthopaedics	2008
Member	Undergraduate Medical School Committee, UBC	February 2008 -2010
Member	Arthroscopy Association of North America education committee	March 2002-2004
Member	American Orthopaedic Foot and Ankle Society Education committee member	2008-

(e) *Visiting Lecturer (indicate university/organization and dates)*

### **Local meetings**

1. Guest Lecturer, Annual Update on Arthritis for Paramedical Personnel, Vancouver, BC February 1995.
2. Guest Lecturer, Lecture to the BC Podiatric Association, June 1998.
3. Guest Lecturer, Rheumatologists at the Arthritis Society, June 1998.
4. Guest Lecturer, Occupational Therapists and Physiotherapists at the Arthritis Center, January 1999.
5. Guest Lecturer, BC Podiatric Association, February 1999.
6. Guest Lecturer, BC Radiologists Association, April 28, 2000.
7. Guest Lecturer, St. Vincent's Hospital Lecture Series, June 14, 2001.
8. Guest Lecturer, Arthritis Center of BC, March 2002.
9. Guest Lecturer, Medical Office Assistants of BC, March 2002.

10. Guest Lecturer, Public Talk for the St. Vincent's Hospital Foundation, May 2002.
11. Guest Lecturer, Family Physicians, Columbia Rehabilitation Centre, September 19, 2002.
12. Guest Lecturer, Teaching Rounds, Rheumatology Residents and Fellows, September 20, 2002.
13. Guest Lecturer, Preadmission Nurses Association of British Columbia, October 24, 2002.
14. Guest Lecturer, Presentation to Rheumatologists at the Arthritis Society of BC, November 2003.
15. Guest Lecturer, St. Paul's Hospital Lecture Series, December 27, 2003.
16. Guest Lecturer, Presented to the Board of Providence Health Care February 2004.
17. Guest Lecturer, UBC division of Geriatric Medicine Division Rounds. March 23 2004.
18. Guest Lecturer, St. Vincent's Hospital Foundation Vancouver, April 2004.
19. Guest Lecturer, BC Diabetes Collaborative, Vancouver BC, October 21, 2004.
20. Guest Lecturer, Family Practice Rounds, St. Paul's Hospital, November 28, 2004.
21. Guest Lecturer, General Practice Rounds, Mount St. Joseph's Hospital, Vancouver, February 2005.
22. Guest lecturer, Family Medicine Grand Rounds, Mounts St. Josephs hospital, 16<sup>th</sup> June 2009.
23. Guest Lecturer, CME on the run. UBC department of family practice. June 1<sup>st</sup> 2012.
24. Guest lecturer, GP update, Victoria, BC, June 2<sup>nd</sup> 2012.

### **National meetings**

25. Guest Lecturer, University of Calgary Grand Rounds, Department of Orthopaedics, April 1997.
26. Guest Lecturer, Workshop at the Canadian Rheumatology Conference, Lake Louise, AB, February 1999.
27. Guest Lecturer, Canadian Orthopaedic Association Meeting, St. John's, NF, July 4, 1999.
28. Guest Lecturer, Instructional Course, Canadian Orthopedic Association Meeting, St. John's, NF, July 6, 1999.
29. Guest Lecturer, Fourth Biennial Foot and Ankle Symposium, Toronto, April 8-9, 2000.
30. Guest Lecturer, Instructional Course Lecture Participant, Canadian Orthopedic Association, June 4, 2000.
31. Visiting Professor, Department of Orthopaedics, Calgary, October 4-7, 2000.
32. Guest Lecturer, Arthroscopic Surgery Symposium, Whistler, BC, February 22, 2001.
33. Guest Lecturer, Lecture to the American British Canadian Traveling Fellows, May 30, 2001.
34. Guest Lecturer, Instructional Course Lecture and workshop, Canadian Orthopaedic Association, June 2001.

35. Guest Lecturer and moderator, 5<sup>th</sup> Biennial Foot and Ankle Symposium, University of Toronto, April 2002.
36. Guest Lecturer, Royal College of Physicians and Surgeons of Canada Visiting Lecturer, Glen Edwards Days, University of Calgary, May 2002.
37. Guest Lecturer, course chairman and moderator, first Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, BC. April 2003.
38. Guest Lecturer, Instructional Course Lecture, Canadian Orthopaedic Association Meeting, May 4, 2003.
39. Guest Lecturer, Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB, October 3, 2003.
40. Guest Lecturer and moderator, University of Toronto Biannual Foot and Ankle Course, Toronto, ON, April 4, 2004.
41. Guest Lecturer, Instructional Course Lecture Canadian Orthopaedic Association Annual Meeting, Calgary, Alberta, June 20, 2004.
42. Guest Lecturer and Course Chairman, Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, April 8-9, 2005.
43. Guest Lecturer, Instructional Course Lecture, Canadian Orthopaedic Association Meeting, Montreal, Quebec, June 3, 2005.
44. Guest Lecturer, Canadian Orthopaedic Residents Association Meeting, Montreal, Quebec, June 3, 2005.
45. Visiting Professor, University of Manitoba, November 8, 2005.
46. Guest Lecturer and session moderator, Canadian Orthopaedic Foot and Ankle Society Meeting, Toronto ON, April 8-9, 2006.
47. Guest Lecturer, Instructional Course Lecture, Canadian Orthopaedic Association, May 2006.
48. Visiting Professor, University of McGill Grand Rounds, Montreal, QC, October 2006.
49. Guest Lecturer and Course Chairman, Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver, B.C, March 30-31, 2007.
50. Guest Lecturer, Canadian Orthopaedic Association Meeting, Halifax, Nova Scotia, June 2007.
51. Guest Lecturer, ISQUA Conference, Vancouver, B.C, October 28, 2005.
52. Guest Lecturer, The College of Family Physicians of Canada: Family Medicine Forum, Vancouver, BC, December 10, 2005.
53. Guest Lecturer, Department of Family Medicine, UBC Diamond Center, November 14, 2007.
54. Guest Lecturer, Rheumatology residents half day, November 16, 2007.
55. Guest Lecturer and panelist, 8<sup>th</sup> Biennial Canadian Foot and Ankle Symposium, Toronto ON, April 12, 2008.

56. Visiting Professor, University of Montreal Department of Orthopaedics, Montreal QC, May 2008.
57. Guest lecturer, Workshop on osteotomies. Canadian Orthopaedic Association Meeting, Whistler, July 5<sup>th</sup> 2009.
58. Guest lecturer, Canadian Orthopaedic Foot and Ankle Society Think Tank Meeting, Whistler BC, July 6<sup>th</sup> and 7<sup>th</sup> 2009.
59. Guest lecturer and session moderator, 9<sup>th</sup> Biennial Canadian Orthopaedic Foot and Ankle Symposium. Toronto April 10-11<sup>th</sup> 2010.
60. Guest lecturer, Instructional course lecture, Canadian Orthopaedic Association Meeting, Edmonton, Alberta. Friday June 18<sup>th</sup> 2010.
61. Master Instructor, Workshop on arthroscopic procedures, Canadian Orthopaedic Association Meeting Edmonton Alberta. Friday June 18<sup>th</sup> 2010.
62. Course chairman, lecturer and demonstrator, COFAS ankle arthroscopy lab. Vancouver, B. C. January 26<sup>th</sup> 2011.
63. Course chairman: Screw placement for foot and ankle surgery. Thursday 27<sup>th</sup> January 2011.
64. Guest Lecturer, Advances in foot and ankle surgery. Cutting edge techniques in fixation. January 27<sup>th</sup> 2011.
65. Course Chairman, lecturer and moderator, COFAS biannual meeting, Vancouver BC January 28 to 29<sup>th</sup>, 2011.
66. Course coordinator, Canadian Orthopaedic Association Meeting, Foot and ankle arthroscopy lab, July 2011.
67. Guest instructor and lecturer, Canadian Orthopaedic Association Meeting, July 2011.
68. Guest lecturer and moderator, COFAS Biannual Meeting Toronto April 21<sup>th</sup> 2012.
69. Guest lecturer, COFAS Arthroscopy Lab Toronto April 20<sup>th</sup> 2012.
70. Course moderator, Canadian OA arthroscopy lab, Ottawa, June 9<sup>th</sup> 2012.
71. Guest lecturer, COA, Ottawa, 8 June 2012.
72. Guest lecturer, COFAS annual retreat. Osoyous, British Columbia. September 2012.
73. Co chair, COFAS symposium, Whistler February 2013.

#### **International meetings**

74. Guest Lecturer, American Foot and Ankle Society's "Shoe fit" Course, San Diego, CA, September 1997.
75. Course Instructor, Foot and Ankle Arthroscopy Course, Chicago, IL. October 2002.
76. Guest Lecturer, Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 15, 2003.

77. Guest Lecturer, Canadian Orthopaedic Association Ambassador to the Hong Kong Orthopaedic Association, Hong Kong, November 8-9, 2003.
78. Guest Lecturer, Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 20 2004.
79. Guest Lecturer, American Orthopaedic Foot and Ankle Society Annual Meeting, Seattle, July 2004.
80. Guest Lecturer, Fall Course, Arthroscopy Association of North America, Palm Desert, December 2004.
81. Guest Lecturer, American Orthopaedic Foot and Ankle Society Specialty Day, Chicago IL, February 2005.
82. Guest Lecturer, Arthroscopy Association of North America Specialty Day, Chicago IL, February 2005.
83. Guest Lecturer, Arthroscopy Association of North America Annual Meeting, Hollywood, Florida, April 2005.
84. Guest Lecturer, The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, Scottsdale AZ, April 28- May 1, 2005.
85. Guest Lecturer, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, May 2005.
86. Guest Lecturer, Mobility Total Ankle Replacement Course, Zurich, Switzerland, October 5-8, 2005.
87. Guest Lecturer and demonstrator, American Academy of Orthopaedic Surgeons: Foot and Ankle Course, Chicago IL, October 22, 2005.
88. Guest Lecturer, Advances and Innovations in Foot and Ankle Surgery, New York City, December 9-10, 2005.
89. Guest Lecturer and anatomy demonstrator: AAOS Learning Centre, Chicago, November 2006.
90. Visiting Professor, North Western University Grand Rounds, Chicago IL, November 2006.
91. Guest Lecturer, Update in Foot and Ankle, New York City, December 2006.
92. Guest Lecturer, Instructional Course Lecture, American Academy of Orthopaedic Surgeons, San Francisco, February 2007.
93. Guest Lecturer, American Orthopaedic Foot and Ankle Society Annual Meeting, Toronto, Ontario, July 13, 2007.
94. Guest Lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 8, 2007.
95. Guest Lecturer, Arthroscopy Association of North America Web site on line courses, September 21, 2007.
96. Guest Lecturer, Arthroscopy Association of North America Web site on line courses, July 24, 2007.
97. Guest Lecture, Instructional Course Lecture, American Academy of Orthopaedic Surgeons, San



Francisco, March 5, 2008.

98. Guest Lecturer, American Orthopaedic Foot and Ankle Society Advanced Course, San Francisco, May 1, 2008.
99. Guest Lecturer, Instructional course, Combined Canadian Orthopaedic and American Orthopaedic Association Meeting, Quebec City, June 5, 2008.
100. Guest lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 13-14, 2008.
101. Visiting Professor, New Zealand Orthopaedic Foot and Ankle Society Annual Meeting, Nelson, New Zealand, November 1 to 2 2008.
102. Guest lecturer, Arthroscopy association of North America Fall Meeting, Phoenix Arizona, November 2008
103. Guest Lecturer, Instructional Course Lecture, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, February 25, 2009.
104. Visiting Professor, University of California Los Angeles, May 27<sup>th</sup> 2009.
105. Guest lecturer and local host, American Orthopaedic Foot and Ankle Society Precourse Meeting: Vancouver, BC, July 14<sup>th</sup> 2009.
106. Guest lecturer and local host, American Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver, BC. July 15<sup>th</sup> to 17<sup>th</sup> 2009.
107. Guest Lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 26<sup>th</sup> 2009.
108. Guest lecturer, 9<sup>th</sup> annual foot and ankle lectureship, University of Michigan, Ann Arbor, MI. Friday October 23<sup>rd</sup>, 2009.
109. Guest lecturer, Arthroscopy Association of North America Fall course, Palm Desert, CA, November 2009.
110. Visiting professor and presidential guest speaker: Saudi Arabian Orthopaedic Association. Khobar, Saudi Arabia, January 21<sup>st</sup> 2010.
111. Guest lecturer, Instructional course lecture, American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans. March 2010.
112. Guest lecturer, American Orthopaedic Foot and Ankle Society Winter Meeting, New Orleans. March 2010.
113. Guest Lecturer, Biomimetic information evening, July 2010 National Harbour, Maryland, USA.
114. Guest Lecturer: Vumedi Webinar, 21<sup>st</sup> September 2010.
115. Guest Lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America

and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 24<sup>th</sup> 2010.

116. Guest lecturer, American Academy of Orthopaedic Surgeons Meeting – San Diego 2011.
117. Symposium Moderator and chairman, Combined Arthroscopy Association of North America and American Orthopaedic Foot and Ankle Society Session, San Diego February 2011.
118. Guest lecturer, Arthroscopy Association of North America Annual Meeting, San Francisco. April 2011.
119. Guest Lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 17, 2011.
120. Guest lecturer and visiting professor, Central Cluster Hong Kong Foot and ankle Symposium: November 16 to 18<sup>th</sup> 2011.
121. Keynote speaker, Hong Kong Orthopaedic Association Meeting. November 19 and 20<sup>th</sup> 2011.
122. Guest lecturer, The Orthopaedic Learning Centre at the Chinese University of Hong Kong. 21<sup>st</sup> November 2011.
123. Guest lecturer, American Orthopaedic foot and ankle society specialty day: San Francisco, February 2012.
124. Guest lecturer, Instructional course, American Academy of Orthopaedic Surgeons: San Francisco. February 2012.
125. Guest Lecturer and moderator, Annual symposium of the Swiss Foot and Ankle Society, Lucerne, Switzerland, Jan 2012.
126. Guest lecturer, SPINE (Society for Progression and Innovation in the Near East), Beirut, June 28<sup>th</sup> 2012.
127. Webinar guest speaker, Foot innovate, July 19<sup>th</sup> 2012.
128. Guest lecturer, Edinburgh trauma symposium, Edinburgh, Scotland, 16<sup>th</sup> August 2012.
129. Guest lecturer, Edinburgh trauma instructional course, Edinburgh, Scotland, 16<sup>th</sup> August 2012.
130. Guest webinar speaker, Vumedi, August 20<sup>th</sup> 2012.
131. Guest Lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 18-19, 2012.
132. Co presenter, Panjabi Orthopaedic Association Conference 2012, Amritsar India. 26<sup>th</sup> October 2012.
133. Guest lecturer, AANA fall course, November 9<sup>th</sup> 2012.
134. Guest speaker, British Orthopaedic Foot and Ankle Society. Newport Wales, November 14<sup>th</sup> 2012.
135. Guest Speaker, Vu Medi Event, San Francisco, November 18<sup>th</sup> 2012.
136. Visiting professor, Royal College of Surgeons of Glasgow Update in Foot and Ankle, November

25<sup>th</sup>2012.

137. Ian Kelly Lecture, Royal College of Surgeons of Glasgow, November 25<sup>th</sup> 2012.
138. Guest lecturer, American Academy of Orthopaedic Surgeons. March 19 2013.
139. Guest lecturer: AOFAS winter meeting. Chicago, March 23rd 2013.
140. Guest lecturer: AOFAS Complications course, Durham, North Carolina, May 2013.
141. Guest Lecturer, master instructor and anatomy demonstrator, Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, Chicago IL, September 19, 2013.

*(f) Other*

1. BCTV (Global TV), News Broadcast on St. Paul's Hospital- Foot and Ankle Clinic, September 18, 2002.
2. CKNW 950 AM Radio Show "House Calls", Discussion of Foot and Ankle problems, March 8, 2003.
3. Interview with CBC (French) radio on Outcomes of Diabetic Amputations, August 2004.
4. Toronto Star Newspaper article: Injuries from High Heeled Shoes, December 2004.
5. CKNW 950 AM: "House Calls", Radio Show on Foot and Ankle Problem, May 28 2005.

*(g) Future Planned Visiting Lecturer (indicate university/organization and dates)*

## **9. SCHOLARLY AND PROFESSIONAL ACTIVITIES**

### ***(a) Areas of special interest and accomplishments***

Teaching:

See section 8 (a)

#### Arthritis and Reconstructive Surgery:

- Studies on infection in total hip arthroplasty. See publication record: Not a current area of active research.

#### Foot and Ankle Surgery:

- Tourniquet research; Studies on complications and reduction of tourniquet pressure in surgery.
- Pathways for foot and ankle care: Development of pathways reducing cost and improving patient education. 3 M award for quality improvement in health care.
- Outcomes research in hindfoot arthritis: Principal investigator and co founder of multi center national database.
- Diabetic foot care: Studies on outcomes of limited foot amputations in diabetic patients.
- Arthroscopic foot and ankle surgery; Development of techniques; studies on outcomes of arthroscopic ankle fusion.

- Bone graft substitutes: Pilot study on PDGF 2 for foot and ankle fusions completed for an FDA study. Principal investigator for Vancouver site for a Sponsor initiated RCT.
- Fractures in patients with Diabetes – Principal investigator in investigator initiated study
- Bone grafting in Osteochondral defects of the talus- Principal investigator in investigator initiated study
- Treatment of end stage arthritis of the first MTP joint – Principal investigator – Vancouver site
- Stability of Ankle Joint replacements – Masters thesis supervisor and patent holder

#### Basic Science Research:

MSc. Kinesiology, Simon Fraser University

- “Forces during Femoral Lengthening in Children”, successfully defended in June 1990, M Ch. Thesis, Aberdeen University.
- “The Biomechanics of Distraction Callus Created during Ilizarov Limb Lengthening in Sheep”, successfully defended September 1996. Graduated May 1997.
- Cadaver study on the relative strength of lateral ligament reconstruction versus repair.
- Cadaver study on the stability of the STAR and the Agility total ankle at the time of implantation.

#### Research Coordinator

Research coordination has included:

1. CIHR grant application. This grant was submitted to support a randomized prospective study on ankle fusion versus replacement. The grant application was submitted in December of 2007. Further funds for this study have been obtained from the American Orthopedic Foot and Ankle Society and the Canadian Orthopaedic Research Legacy fund.
2. We have conducted a pilot study for Biomimetic on the use of GEMOS (recombinant PDGF) for foot and ankle fusions. This was an FDA study. 25 of 60 Canadian patients were entered from the Vancouver arm. The results of the Canadian study were presented at the AOFAS meeting in 2008.
3. A database has been set up studying the outcomes of end stage ankle arthritis. This database was used to publish a comparison of preoperative scores of end stage ankle and hip arthritis. This paper won the Roger Mann Award for best paper at the 2007 meeting of the American Orthopaedic Foot and ankle Society. Two other presentations are presently being made this year based on this database, and an increasing number of papers will be written as this study group matures. Currently the database contains patients enrolled since 2003.
4. Tourniquet research. A series of studies have been completed outlining the current risks of tourniquet use. Further studies include articles on the limb occlusion pressure of wide and narrow tourniquet cuffs, and a randomized prospective study on the use of limb occlusion pressure in foot and ankle practice.
5. Development of foot and ankle arthroscopy: Providence is a leading center in foot and ankle arthroscopy. We wish to develop a similar database for foot and ankle arthroscopy, and develop techniques to improve the outcome of foot and ankle fusions. Studies are currently underway to outline the safety of a medial portal for ankle arthroscopy.
6. I am principal investigator for a study on the use of Tigercacylin for diabetic foot infections. This study is being completed.

7. Principal investigator for Carticept study, a cartilage replacement material, initiating in September 2009.
8. Principal investigator for Amplex study, a bone stimulating hormone manufactured by Bioset inc.
9. Investigator initiated study, rhPDGF for treatment of OCD lesions of the talus.
10. Investigator initiated study, rhPDGF for treatment of patients with non operative treatment of Weber B ankle fractures.

(b) **Research or equivalent grants (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC))**

Granting Agency	Subject	COMP	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
BC Health Care & Science Council	Forces During Femoral Lengthening in Children	C	\$24,000	1989	Dr. J. Morrison	Dr. A. Younger Dr. W.G. Mackenzie
BC Health Care	Paediatric Forearm Fractures	C	\$11,000	1991	Dr. S. Tredwell	W.G. Mackenzie A. Younger
BC Health Care	The Biomechanics of Distraction Callus After Limb Lengthening	C	\$19,000	1993	Dr. W.G. Mackenzie	J. Morrison A. Younger
Worker's Compensation Board of BC	Strength of lateral ligament reconstruction using Graclis	C	\$32,000	2001	Dr. A. Younger	Dr. T. Oxland Dr. J.P. Veri
Wright Medical	The single stage management of Diabetic foot infections using osteocet beads	NC	\$14,000	2001	Dr. A. Younger	Dr. K. Stothers and Dr. T. Kalla
Hip Hip Horray	A comparative review of outcome of ankle joint fusion vs. replacement	C	\$12,000	2003	Dr. A. Younger	Dr. K. Wing.
UBC	A meta analysis review of outcome of ankle joint fusion vs. replacement	C	\$4,000	2004	Dr. A. Younger	
Hip Hip Horray	A randomized prospective study on the Mobility vs. Agility total ankle arthroplasty	C	\$4000	2006	Dr. A. Younger	

Granting Agency	Subject	COM P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Biomimetric Inc.	GEM OS 1 Pilot	NC	\$300,000	2006	Dr. A. Younger	
Biomimetric Inc.	GEM OS 1 Pivotal	NC	\$250,000	2007	Dr. A. Younger	Dr. M. Penner, Dr. K. Wing
Depuy Inc.	Comparison of outcomes of Mobility and Agility total ankle replacements	NC	\$30,000	2007	Dr. M. Glazebrook	Dr. A. Younger
American Orthopaedic Foot and ankle society	Randomized prospective study of ankle fusion and replacement	C	10,000	2006	Dr. M. Glazebrook	Dr. A. Younger, Dr. M. Penner, Dr. K. Wing
Wyeth Labs	TIGER study – analysis of diabetic wound healing	NC	100,000	2007	Dr. T. Kalla	Dr. A. Younger
Canadian Orthopaedic Research Legacy	Randomized prospective study of ankle fusion and replacement	C	20,000	2007	Dr. M. Glazebrook	Dr. A. Younger, Dr. M. Penner, Dr. K. Wing
Roger Mann Award	Outcomes of end stage ankle arthritis	C	8,000	2007	Dr. M. Glazebrook	Dr. M. Penner, Dr. K. Wing
Biomimetric Inc.	Augment injectable Pivotal study	NC	\$200,000	2009	Dr. A. Younger	Dr. M. Penner, Dr. K. Wing
Carticept inc.	Motion study	NC	60,000	2009	Dr. A. Younger	Dr. M. Penner, Dr. K. Wing
Bioset Inc.	Amplex study	NC	80,000	2010	Dr. A. Younger	Dr. K. Wing, Dr. M. Penner, Dr. S. Pinney
Biomimetic Inc.	Augment injectable multicenter pivotal Canadian study	NC	100,000	2010	Dr. A. Younger	Dr. S. Pinney, Dr. M. Penner, Dr. K. Wing
Orthopaedic Research excellence fund	Randomized prospective study of ankle fusion vs replacement	C	25,000	2011	Dr. A. Younger	Dr. S. Pinney, Dr. M. Penner, Dr. K. Wing
Carticept educational grant award	Motion study	NC	10,000	2011	Dr. A. Younger	Dr. M. Penner, Dr. K. Wing
Integra foundation	Outcomes of Hintegra ankle replacements	C	60,000	2011	Dr. M. Penner	Dr. A. Younger, Dr. K. Wing
Smith and Nephew Inc.	Exogen study	C	30,000	2011	Dr. K. Wing	Dr. A. Younger, Dr. S. Pinney, Dr. M. Penner
Acumed Inc.	Fibular Nail Study	NC	70,000	2011	Dr. A.	Dr. S. Pinney

Granting Agency	Subject	COM P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
					Younger	Dr. K. Wing Dr. M. Penner
Biomimetic Inc.	OCD study	NC	60,000	2011	Dr. A. Younger	
Biomimetic Inc.	Augment injectable multicenter pivotal Canadian and US study	NC	100,000	2011	Dr. A. Younger	Dr. S. Pinney Dr. K. Wing Dr. M. Penner
Carticept educational award grant	Motion study	NC	15,000	2011	Dr. A. Younger	Dr. S. Pinney Dr. K. Wing Dr. M. Penner

(c) **Research or equivalent contracts (indicate under COMP whether grants were obtained competitively (C) or non-competitively (NC)).**

Granting Agency	Subject	COM P	\$ Per Year	Year	Principal Investigator	Co-Investigator(s)
Zimmer educational grant	Support for foot and ankle fellowship	NC	60,000	2006	Dr. A. Younger	Dr. M. Penner and Dr. K. Wing
Synthes educational grant	Support for foot and ankle fellowship	NC	20,000	2009	Dr. M. Penner	Dr. A. Younger and K. Wing
Wright medical educational grant	Support for foot and ankle fellowship	NC	20,000	2009	Dr. M. Penner	Dr. A. Younger and Dr. K. Wing

**(d) Invited Presentations**

**Visiting Professor:**

1. Visiting Professor : “The Present Role of Total Ankle Arthroplasty”, Grand Rounds in Orthopaedics, Calgary, AB, October 5, 2000.
2. Visiting Professor: “Assessment and Treatment of the Cavus Foot”, Glen Edwards Days, University of Calgary, May 2002.
3. Visiting Professor: “Post Trauma Foot and Ankle Reconstruction”, Royal College of Physicians and Surgeons of Canada Visiting Lecturer, Glen Edwards Days, University of Calgary, May 2002.
4. Visiting Professor: “ Update on ankle arthroplasty”. University of McGill Grand Rounds, October 2006.

5. Visiting Professor: “Lateral Ligament Instability”, Visiting Professor at the University of Manitoba, November 8, 2005.
6. Visiting Professor: “Ankle Instability”, Grand Rounds, North Western University, November 2006.
7. October 14, 1997: Invited Speaker: North American Travelling Fellowship Presentation: “The Mechanical Properties of Distraction Callus Generated during Ilizarov Lengthening”: McMaster University, Hamilton, ON.
8. October 15, 1997: Invited Speaker: North American Traveling Fellowship Presentation: The PROSTALAC Concept in the Management of the Infected Total Hip Arthroplasty”: University of Manitoba, Winnipeg, MB.
9. October 17, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The Mechanical Properties of Distraction Callus Generated during Ilizarov Lengthening”: University of Minnesota, Minneapolis, MN.
10. October 20, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “Shoulder Translation and Apprehension in Unilateral Post Traumatic Dislocation”: Mayo Clinic, Rochester, MN.
11. October 23, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “Orthopaedic Radiographic Assessment: Do You See What I See?”: University of Iowa, Iowa City, IA.
12. October 24, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The PROSTALAC Concept in the Management of the Infected Total Hip Arthroplasty”: Loyola University, Chicago, IL.
13. October 28, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “ Orthopaedic Radiographic Assessment: Do You See What I See?”: University of Cincinnati, Cincinnati, OH.
14. October 29, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The Mechanical Properties of Distraction Callus Generated during Ilizarov Lengthening”: Case Western Reserve, Cleveland, OH.
15. October 30, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The Mechanical Properties of Distraction Callus Generated during Ilizarov Lengthening”: Cleveland Clinic, Cleveland, OH.
16. October 31, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The PROSTALAC Concept in the Management of the Infected Total Hip Arthroplasty”: University of Michigan, Ann Arbor, MI.
17. November 3, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The PROSTALAC Concept in the Management of the Infected Total Hip Arthroplasty”: Campbell Clinic, Memphis, TN.
18. November 5, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The PROSTALAC Concept in the Management of the Infected Total Hip Arthroplasty”: Washington University, St. Louis, MO.
19. November 6, 1997: Invited Speaker: North American Traveling Fellowship Presentation: “The Assessment of Long Bone Angulation”: University of Texas, Dallas, TX.



20. April 16, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Southampton, UK.
21. April 18, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Bristol, UK.
22. April 20, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Edinburgh, UK.
23. April 23, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Reducing Tourniquet Complications for Foot and Ankle Surgery”: Sheffield, UK.
24. April 25, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Wrightington, UK
25. April 27, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Foot and Ankle Reconstruction”: Orthopaedic Surgery Core Curriculum, Warwick University, England, UK.
26. May 1, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Royal National Orthopaedic Hospital, Stanmore, England.
27. May 2, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Podium Presentation, Imperial College Hospital, London, England.
28. May 7, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “The 3M Award for Quality Improvement in Health Care”: Sydney, Australia.
29. May 8, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Brisbane, Australia.
30. May 11, 2007: Invited Speaker: Podium Presentation ABC Fellowship: “Multicentered Prospective Cohort Study of the Clinical Outcome of Patients Treated with Total Ankle Arthroplasty vs. Ankle Arthrodesis”: Australian College of Surgeons: Melbourne, Australia.
31. Invited Speaker: Podium Presentation ABC Fellowship: “Update on Ankle Instability”: Auckland, New Zealand. May 17, 2007.
32. Visiting Professor, University of Montreal Department of Orthopaedics, May 2008. (include talks)
33. Visiting Professor, “ Ankle Instability – an update “New Zealand Orthopaedic Foot and Ankle Society Annual Meeting, Nelson New Zealand, November 1 to 2 2008.
34. Visiting Professor, “ Arthroscopic Ankle Fusion “New Zealand Orthopaedic Foot and Ankle Society Annual Meeting, Nelson New Zealand, November 1 to 2 2008.
35. Visiting Professor, “ Ankle Arthritis – outcomes: The Canadian Prospective “New Zealand Orthopaedic Foot and Ankle Society Annual Meeting, Nelson New Zealand, November 1 to 2 2008.

36. Visiting Professor, “ Ankle Arthritis – the use of osteotomies “New Zealand Orthopaedic Foot and Ankle Society Annual Meeting, Nelson New Zealand, November 1 to 2 2008.
37. Visiting Professor, “ Cavus foot reconstruction “New Zealand Orthopaedic Foot and Ankle Society Annual Meeting, Nelson New Zealand, November 1 to 2 2008.
38. Mark Glazebrook, **Younger AS:** Invited speaker ABC fellowship. Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, Nottingham City Hospital, Nottingham, United Kingdom, April 22, 2009.
39. Mark Glazebrook, **Younger AS:** Invited speaker ABC fellowship. Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, Nottingham City Hospital, Nottingham, United Kingdom, April 22, 2009.
40. Mark Glazebrook, **Younger AS:** Invited speaker ABC fellowship. Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, University of Edinburgh, Edinburgh, Scotland, April 23, 2009.
41. Mark Glazebrook, **Younger AS:** Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, Cappagh National Orthopaedic Hospital, Finglas, Dublin, Ireland. May 4, 2009.
42. Mark Glazebrook, **Younger AS:** Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, Combined Meeting of Bararwanath and Jonhannesburg Hospital, Johannesburg, South Africa. May 16, 2009.
43. Mark Glazebrook, **Younger AS:** Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, Emoya University, Durban, South Africa. May 18, 2009.
44. Mark Glazebrook, **Younger AS:** Surgical Treatment of End Stage Ankle Arthritis: Canadian Orthopedic Foot and Ankle Society Multicenter Study on Total Ankle Arthroplasty vs. Ankle Arthrodesis, . Sports Science Institute: Stellenbosch University University, Cape Town, South Africa. May 20, 2009.
45. Visiting Professor: “Ankle Instability”. University of California Los Angeles Resident Rounds, May 27<sup>th</sup> 2009.
46. Visiting Professor: “Ankle Arthritis: The Canadian Experience”. University of California Los Angeles Grand Rounds, May 27<sup>th</sup> 2009.
47. Visiting Professor: “Ankle arthritis: The Canadian Experience”. 9<sup>th</sup> annual foot and ankle lectureship, University of Michigan. Friday October 23<sup>rd</sup>, 2009.
48. Visiting professor: Saudi Arabian Orthopaedic Association meeting: End Stage Ankle Arthritis: The Canadian Experience. Presidential Guest Speaker. January 21<sup>st</sup> 2010.
49. Visiting professor: Saudi Arabian Orthopaedic Association meeting: Supramaleolar osteotomy for treatment of ankle arthritis. January 21<sup>st</sup> 2010.
50. Visiting professor: Saudi Arabian Orthopaedic Association meeting: The Lapidus procedure for hallux valgus.. January 21<sup>st</sup> 2010.

51. Visiting professor: Saudi Arabian Orthopaedic Association meeting: Treatment of the primary osteochondral injuries of the ankle. January 21<sup>st</sup> 2010.
52. Visiting professor: Saudi Arabian Orthopaedic Association meeting: Flat foot deformity. January 21<sup>st</sup> 2010.
53. Visiting Professor: “Acute Post- Traumatic Planovalgus Deformity with HF Ligamentous Pathology”. .Central Cluster Hong Kong Foot and ankle Symposium: November 16<sup>th</sup> 2011.
54. Visiting Professor: “Subtalar Arthritis: Fusion and Arthroscopy”. .Central Cluster Hong Kong Foot and ankle Symposium: November 16<sup>th</sup> 2011.
55. Visiting Professor: “Shockwave treatment for foot and ankle conditions”. Central Cluster Hong Kong Foot and ankle Symposium: November 16<sup>th</sup> 2011.
56. Guest lecturer: “Open Management of Lateral Ankle Instability”. Central Cluster Hong Kong Foot and ankle Symposium: November 17<sup>th</sup> 2011.
57. Visiting Professor: “Abnormal findings outside the first ray in Hallux Valgus.”. Central Cluster Hong Kong Foot and ankle Symposium: November 17<sup>th</sup> 2011.
58. Visiting Professor: “Management of Severe Non Reducible Claw Toe deformity”. Central Cluster Hong Kong Foot and ankle Symposium: November 17<sup>th</sup> 2011.
59. Visiting Professor:” Ankle Fusion vs. Total Ankle Replacement”. Central Cluster Hong Kong Foot and ankle Symposium: November 18<sup>th</sup> 2011.
60. Visiting Professor: “The clinical outcome of Agility vs. STAR”. Central Cluster Hong Kong Foot and ankle Symposium: November 18<sup>th</sup> 2011.
61. Visiting Professor: “Surgeon Training and Complications in TAR”. Central Cluster Hong Kong Foot and ankle Symposium: November 18<sup>th</sup> 2011.
62. Visiting Professor: “TAR combined with HF fusion for Pantalar Arthritis”. Central Cluster Hong Kong Foot and ankle Symposium: November 16<sup>th</sup> 2011.
63. Keynote speaker, “Foot and ankle fusions”. Hong Kong Orthopaedic Association Meeting. November 19<sup>th</sup> 2011.
64. Keynote speaker, “Treatment of the diabetic foot”. Hong Kong Orthopaedic Association Meeting. November 19<sup>th</sup> 2011.
65. Keynote speaker, “Acquired flat foot management”. Hong Kong Orthopaedic Association Meeting. November 19<sup>th</sup> 2011.
66. Keynote speaker, “Arthroscopic treatment of fractures”. Hong Kong Orthopaedic Association Meeting. November 19<sup>th</sup> 2011.
67. Keynote speaker, “Surgical treatment of end stage ankle arthritis”. Hong Kong Orthopaedic Association Meeting. November 19<sup>th</sup> 2011.
68. Keynote speaker, “Treatment of the rheumatoid foot”. Hong Kong Orthopaedic Association Meeting.

November 19<sup>th</sup> 2011.

69. Visiting Professor: “Subtalar Arthroscopy”. The Orthopaedic Learning Centre at the Chinese University of Hong Kong.. 21<sup>st</sup> November 2011.
70. Visiting Professor: “Hallux Valgus: Why did my basal osteotomy go wrong?” Annual symposium of the Swiss Foot and Ankle Society, Lucerne, Switzerland, Jan 2012.
71. Visiting Professor: “Hallux rigidus”. Annual symposium of the Swiss Foot and Ankle Society, Lucerne, Switzerland, Jan 2012.
72. Visiting Professor: “Moderator: Case presentations”. Annual symposium of the Swiss Foot and Ankle Society, Lucerne, Switzerland, Jan 2012.
73. Visiting Professor: “Compartment syndrome of the foot – does it matter?” Edinburgh trauma symposium, Edinburgh, Scotland, 16<sup>th</sup> August 2012.
74. Visiting Professor: “Calcaneal Fractures”. Edinburgh trauma instructional course, Edinburgh, Scotland, 16<sup>th</sup> August 2012.
75. Visiting Professor: “Midfoot and Forefoot Fractures”. Edinburgh trauma instructional course, Edinburgh, Scotland, 16<sup>th</sup> August 2012.
76. Visiting Professor: Practical workshop: “Calcaneal fractures”. Edinburgh trauma instructional course, Edinburgh, Scotland, 16<sup>th</sup> August 2012.
77. Visiting Professor: “Ankle fractures – the syndesmosis”. Edinburgh trauma symposium, Edinburgh, Scotland, 17<sup>th</sup> August 2012.
78. Visiting Professor: “Ankle fractures. Neuropathic and Diabetic Patients”. Edinburgh trauma symposium, Edinburgh, Scotland, 17<sup>th</sup> August 2012.
79. Visiting Professor: Fibular nails: Hands on lab. Edinburgh trauma symposium, Edinburgh, Scotland. 17<sup>th</sup> August 2012.
80. Visiting Professor: “The Mobility Total ankle Arthroplasty: The Canadian Experience”. British Orthopaedic Foot and Ankle Society. Newport Wales, November 14<sup>th</sup> 2012.
81. Visiting professor, “Revision of failed total ankle replacement to ankle replacement”. Royal College of Physicians and Surgeons of Glasgow Symposium on Ankle Arthritis, Glasgow, Scotland, November 23<sup>rd</sup> 2012.
82. Visiting professor, “Conversion of ankle fusion to ankle replacement – the final frontier”. Royal College of Physicians and Surgeons of Glasgow Symposium on Ankle Arthritis, Glasgow, Scotland, November 23<sup>rd</sup> 2012.
83. Visiting professor, Ian Kelly Memorial Lecture, “Ankle Arthritis- What have we learned? The Canadian Experience”. Royal College of Physicians and Surgeons of Glasgow Symposium on Ankle Arthritis, Glasgow, Scotland, November 23<sup>rd</sup> 2012.

## **Local Presentations:**

84. Guest Lecturer: "Arthritis of the Upper Extremity", Annual Update on Arthritis for Paramedical Personnel, February 1995.
85. Guest Lecturer: "The Seattle Experience", Grand Rounds in Orthopaedics, Vancouver General Hospital, March 1998.
86. Guest Lecturer: "The North American Traveling Fellowship 1997", Grand Rounds in Orthopaedics, Vancouver General Hospital, March 1998.
87. Guest Lecturer: "The Seattle Experience", Lecture to the BC Podiatric Association, June 1998.
88. Guest Lecturer: "An Update in Foot and Ankle", Educational Lecture to Rheumatologists at the Arthritis Society, June 1998.
89. Guest Lecturer: "The Rheumatoid Foot", Educational Lecture to Occupational Therapists and Physiotherapists at the Arthritis Center, January 1999.
90. Guest Lecturer: "The Lapidus Procedure", Lecture to the BC Podiatric Association, February 1999.
91. Guest Lecturer: "Posterior Tibial Tendonitis", Lecture to the BC Podiatric Association, February 1999.
92. Guest Lecturer: "Rheumatoid Forefoot Y2K", Lecture at the Annual Orthopedic Update, the University of British Columbia, June 1999.
93. Guest Lecturer: "The North American Traveling Fellowship 1997", Grand Rounds in Surgery, St. Paul's Hospital, July 1999.
94. Guest Lecturer: "Controversies and Fallacies in the Treatment of Adult Flat Foot: The Vancouver Perspective", Lecture to the North American Traveling Fellows, Vancouver, October 6, 1999.
95. Guest Lecturer: "Total Ankle Arthroplasty", Lecture to the BC Radiologists Association, April 28, 2000.
96. Guest Lecturer: "Reconstruction of Chondral Defects in the Ankle", Grand Rounds in Orthopaedics, May 17, 2000.
97. Guest Lecturer: "Chronic Painful Ankle Instability", Symposium at University of British Columbia Annual Orthopaedic Update, May 25, 2000.
98. Guest Lecturer: "Forefoot Pain: Assessment and Management", Lecture at University of British Columbia Annual Orthopaedic Update, May 25, 2000.
99. Guest Lecturer: "The Diabetic Foot", St. Paul's Hospital 46<sup>th</sup> Annual Update, November 17, 2000.
100. Guest Lecturer: "Achilles Tendonitis and Plantar Fasciitis", St. Paul's Hospital 46<sup>th</sup> Annual Update, November 17, 2000.
101. Guest Lecturer: "Total Ankle Arthroplasty: State of the Art", Grand Rounds in Orthopaedics, January 2001.
102. Guest Lecturer: "Management of Fractures", Sunday Course for Operating Room Nurses at St. Paul's Hospital, March 2001.
103. Guest Lecturer: "Treatment of Foot and Ankle Problems", In-service to Operating Room Staff at St. Vincent's hospital, March 2001.

104. Guest Lecturer: "Pathology of the Deltoid Ligament", Grand Rounds in Orthopaedics, May 2001.
105. Guest Lecturer: "The Management of Adult Flat Foot", Lecture to the American British Canadian Traveling Fellows, May 30, 2001.
106. Guest Lecturer: "Abnormalities in the Ankle Where Imaging may be Helpful", Presentation to St. Paul's Hospital Radiology Grand Rounds, May 2001.
107. Guest Lecturer: "Keep on Dancing: The Avoidance of Foot and Ankle Pain", St. Vincent's Hospital Lecture Series, June 14, 2001.
108. Guest Lecturer: "Treatment of Foot and Ankle Problems", In-service to Ward Staff at St. Vincent's Hospital, September 2001.
109. Guest Lecturer: "Total Ankle Arthroplasty has a Role to Play in Post Traumatic Ankle Arthritis", Point Counterpoint Discussion, Resident's Day, December 2001.
110. Guest Lecturer: "Outcomes of Hindfoot Fusions", Grand Rounds in Orthopaedics, January 2002.
111. Guest Lecturer: "Update on the Surgical Management of Rheumatoid Arthritis", Arthritis Center of BC, March 2002.
112. Guest Lecturer: "The Diabetic Foot", Lecture to the Medical Office Assistants of BC, March 2002.
113. "Foot and Ankle Fractures", Lecture with Dr. G. De Vries, Cast Technicians of Canada Annual Conference, Vancouver, BC, April 2002.
114. Guest Lecturer: "Developments in Foot and Ankle Arthroscopy", University of British Columbia Orthopaedic Update, May 2002.
115. Guest Lecturer: "Foot and Ankle Problems in the Elderly: Keep on Dancing", Public Talk for the St. Vincent's Hospital Foundation, May 2002.
116. Guest Lecturer: "History and Physical Exam of Foot and Ankle Conditions", Lecture to Family Physicians, Columbia Rehabilitation Centre, September 19, 2002.
117. Guest Lecturer: "The Rheumatoid Foot", Teaching Rounds, Rheumatology Residents and Fellows, September 20, 2002.
118. Guest Lecturer: "Reconstruction of the Foot and Ankle", Preadmission Nurses Association of British Columbia, October 24, 2002.
- 119.
120. Educational Lecturer: Medical Students Interested in Orthopaedics, UBC Orthopaedic Fair, March 1, 2003.
121. Guest Lecturer: "Cavus Foot", Grand Rounds in Orthopaedics, March 12, 2003.
122. Guest Lecturer: "Total Ankle Arthroplasty", University of British Columbia Orthopaedic Update, Implants in Orthopaedics, May 9, 2003.
123. Guest Lecturer: "Current Surgical Management of the Rheumatoid Foot and Ankle". Presentation to Rheumatologists, November 2003.

124. Guest Lecturer: "Keep on Dancing –The Avoidance of Foot and Ankle Pain". St. Paul's Hospital Lecture Series, December 27, 2003.
125. Guest Lecturer: "Traveling Fellowships: The Hong Kong Ambassadorship", Grand Rounds, January 2004.
126. Guest Lecturer: "The Foot and Ankle Clinical Pathways", Presented to the Board of Providence Health Care February 2004.
127. Guest Lecturer: "Foot and Ankle Problems in the Elderly", UBC division of Geriatric Medicine Division Rounds. March 23 2004.
128. Guest Lecturer: "Prevention and Management of the Neuropathic Foot", BC Diabetes Collaborative, October 21, 2004.
129. Guest Lecturer: "Referring Tips for Family Physicians", Evening Conference, November 3, 2004.
130. Guest Lecturer: "Pathways for Foot and Ankle Surgery", Grand Rounds, Department of Orthopaedics, November 17, 2004.
131. Guest Lecturer: "The Charcot Foot", UBC Update on Diabetic Foot Care, November 21, 2004.
132. Guest Lecturer: "How to Make the Most of your Foot and Ankle Referrals", Family Practice Rounds, St. Paul's Hospital, November 28, 2004.
133. Guest Lecturer: "Foot and Ankle: How a Family Physician May Help", General Practice Rounds, St. Pauls Hospital, December 2004.
134. Guest Lecturer: "Total Ankle Arthroplasty", Nursing Staff Rounds, Mount St. Joseph's Hospital, January 5, 2005.
135. Guest Lecturer: "Foot and Ankle: How a Family Physician May Help", General Practice Rounds, Mount St. Joseph's Hospital, Vancouver, February 2005.
136. Guest Lecturer: "Physical Examination of the Foot and Ankle for Physicians", Evening Seminar, March 9, 2005.
137. Guest Lecturer: "Everything You Need to Know about Foot Surgery on the Ward", Nursing Staff Rounds, Mount St. Joseph's Hospital, October 31, 2005.
138. Guest Lecturer: "Midfoot and Hindfoot Injury", University of British Columbia Annual Orthopaedic Update, May 4-5, 2005.
139. Guest Lecturer: "Ankle Instability", Grand Rounds, University of British Columbia, January 2007.
140. Guest Lecturer: "How to Examine the Foot and Ankle", Lecture to Family Physicians, UBC Diamond Center, November 14, 2007.
141. Guest Lecturer: "How to Examine the Foot and Ankle", Rheumatology residents half day, November 16, 2007.
142. Guest Lecturer: "The ABC Fellowship", Grand Rounds, Department of Orthopaedics, December 28, 2007.

143. Guest Lecturer: General surgical grand rounds – St. Pauls Hospital: The Canadian Orthopaedic Foot and Ankle society Database. December 2008.
144. Guest Lecturer: Grand Rounds. Department of Orthopaedics at the University of British Columbia – Ankle arthritis – effect of surrounding pathology. Dr. Penner, Madeley and Younger: November 19<sup>th</sup> 2008
145. Guest Lecturer: “Foot and ankle examination” Presentation to family doctors, Information evening 2<sup>nd</sup> April 2009
146. Guest Lecturer: “OCD lesions of the Talus: An EBM approach”. UBC department of Orthopaedics Annual update. April 22<sup>nd</sup> 2009.
147. Guest Lecturer: “PDGF beta: Role in bone healing and local experience”. UBC department of Orthopaedics Annual update. April 23<sup>rd</sup> 2009.
148. Guest lecturer:”Case presentations in sports medicine” UBC department of Orthopaedics grand rounds. May 6<sup>th</sup> 2009.
149. Guest lecturer: “Management of foot and ankle complaints” Family Medicine Grand Rounds, Mounts St. Josephs hospital, 16<sup>th</sup> June 2009.
150. Guest lecturer: “End Stage ankle arthritis: The Canadian and Vancouver Experience” St. Pauls hospital 7<sup>th</sup> December 2009.
151. Guest Lecturer: “End stage ankle arthritis”. Ladysport information evening March 9<sup>th</sup> 2011.
152. Guest lecturer: “Arthroscopic treatment of ankle fractures”. Grand Rounds, University of British Columbia, April 27<sup>th</sup> 2011.
153. Guest lecturer: “Cases in foot and ankle surgery”. University of British Columbia Department of Orthopaedic surgery Annual update, May 5<sup>th</sup> 2011.
154. Guest lecturer: “Rheumatoid Forefoot”. Grand rounds Department of Orthopaedics, University of British Columbia June 22 2011.
155. Guest lecturer “Technological advances in Foot and ankle care”. British Columbia Orthopaedic Association annual update. Vancouver, B.C. May 3<sup>rd</sup> 2012.
156. Guest Lecturer: “Symptomatic and Asymptomatic Flat Feet”. CME on the run. UBC department of family practice. June 1<sup>st</sup> 2012.
157. Guest lecturer, “Management of the Three Most Common Foot and Ankle Injuries”. GP update, Victoria, BC, June 2<sup>nd</sup> 2012.
158. Guest lecturer, “When to refer and what to do while you are waiting”. GP update, Victoria, BC. June 2<sup>nd</sup> 2012.
159. Guest Speaker. “Diabetes and Vitamin D: Lessons learned from foot and ankle”. UBC Department of Orthopaedics Grand Rounds. October 17<sup>th</sup> 2012.

**National presentations:**



160. Guest Lecturer: "Management of the Rheumatoid Foot", Workshop at the Canadian Rheumatology Conference, Lake Louise, AB, February 1999.
161. Guest Lecturer: "Which End to Fuse?", Instructional Course on Hallux Rigidus, Canadian Orthopaedic Association Meeting, St. John's, NF, July 4, 1999.
162. Guest Lecturer: "Is There Another Cause?", Instructional Course on the Tibialis Posterior Deficient Foot, Canadian Orthopaedic Association Meeting, St. John's, NF, July 6, 1999.
163. Guest Lecturer: "Talar Fractures", Fourth Biennial Foot and Ankle Symposium, Toronto, April 8-9, 2000.
164. Guest Lecturer: "Ankle Arthroplasty – Indications and Techniques", Fourth Biennial Foot and Ankle Symposium, Toronto, April 8-9, 2000.
165. Guest Lecturer: "Management of Osteochondral Lesions of the Talus", Fourth Biennial Foot and Ankle Symposium, Toronto, April 8-9, 2000.
166. Guest Lecturer: "Tarsal Coalition in the Adolescent and Adult", Fourth Biennial Foot and Ankle Symposium, Toronto, April 8-9, 2000.
167. Guest Lecturer: "Trauma to the Midfoot: Lisfranc Fracture Dislocation", Instructional Course Lecture Participant, Canadian Orthopaedic Association, June 4, 2000.
168. Guest Lecturer: "Ankle Instability: Tendon Supplementation", Instructional Course Lecture Participant, Canadian Orthopaedic Association, June 6, 2000.
169. Guest Lecturer: "Arthroscopy of the Ankle: Portals and Set Up", Arthroscopic Surgery Symposium, Whistler, BC, February 22, 2001.
170. Guest Lecturer: "Ankle Arthroscopy", UBC Arthroscopic Surgery Symposium, Whistler, BC, February 22, 2001.
171. Guest Lecturer: "Treatment of Ankle Arthritis: Total Ankle Arthroplasty", Instructional Course Lecture, Canadian Orthopaedic Association, June 2001.
172. Guest Lecturer: "The Treatment of the Totally Involved Hindfoot", Canadian Orthopaedic Association Workshop on Rheumatoid Arthritis. Canadian Orthopaedic Association meeting. June 2001.
173. Guest Lecturer: "Clinical Outcomes of Ankle Arthrodesis", 5<sup>th</sup> Biennial Foot and Ankle Symposium, University of Toronto, April 2002.
174. Guest Lecturer: "Management of Achilles Tendonopathy and Rupture", 5<sup>th</sup> Biennial Foot and Ankle Symposium, University of Toronto, April 2002.
175. Guest Lecturer: "Talar Fractures", 5<sup>th</sup> Biennial Foot and Ankle Symposium, University of Toronto, April 2002.
176. "Foot and Ankle Fractures", Lecture with Dr. G. De Vries, Cast Technicians of Canada Annual Conference, Vancouver, BC, April 2002.
177. Guest Lecturer: "Forefoot Pain in General Practice", Canadian Orthopaedic Foot and Ankle Society Annual Symposium, April 12, 2003.
178. Guest Lecturer: "Shock Wave Therapy to Treat Foot and Ankle Conditions", Canadian Orthopaedic Foot

- and Ankle Society Annual Symposium, April 12, 2003.
179. Guest Lecturer: "Use of PDA's for Recording MOCOMP Credits", Instructional Course Lecture, May 4, 2003.
  180. Guest Lecturer: "Total Ankle Arthroplasty and Fusion", Canadian Orthopaedic Association Workshop, Winnipeg, MB, October 3, 2003.
  181. Guest Lecturer: "Use of PDA's for Recording MOCOMP credits", Instructional Course Lecture, Canadian Orthopaedic Association Meeting, October 4, 2003.
  182. Guest Lecturer: "The Rheumatoid Hindfoot with Severe Deformity", University of Toronto Biannual Foot and Ankle Course, Toronto, ON, April 4, 2004.
  183. Guest Lecturer: "Surgical Management of the Neuropathic Forefoot Ulcer", University of Toronto Biannual Foot and Ankle Course, Toronto, ON, April 4, 2004.
  184. Guest Lecturer: "Calcaneal Fractures: When to Fix, Fuse or Leave Alone", University of Toronto Biannual Foot and Ankle Course, Toronto, ON, April 4, 2004.
  185. Guest Lecturer: "Ankle Arthrodesis versus Arthroplasty", University of Toronto Biannual Foot and Ankle Course, Toronto, ON, April 4, 2004.
  186. Guest Lecturer: "Management of the Failed Bunion Procedure", Instructional Course Lecture on Bunions, Canadian Orthopaedic Association Annual Meeting, Calgary, Alberta, June 20, 2004.
  187. Guest Lecturer: "The Agility Ankle Replacement", Canadian Orthopaedic Foot and Ankle Society: Annual Meeting, Calgary, Alberta, June 19, 2004.
  188. Guest Lecturer: "Total Ankle Replacement in the Rheumatoid Patient", Canadian Orthopaedic Foot and Ankle Society: Annual Meeting, Calgary, Alberta, June 19, 2004.
  189. Guest Lecturer: "Transmetatarsal Amputation: Indications and Techniques", Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, April 8-9, 2005.
  190. Guest Lecturer: "Medial Column Fusion Versus Calcaneal Osteotomy", Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, April 8-9, 2005.
  191. Guest Lecturer: "Global Approach to the Cavus Foot", Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, April 8-9, 2005.
  192. Guest Lecturer: "Lateral Ligament Reconstruction – Gracilis Tendon", Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, April 8-9, 2005.
  193. Guest Lecturer: "Calcaneal Fractures – Which Ones to Fix", Canadian Orthopaedic Foot and Ankle Society Symposium, Vancouver, April 8-9, 2005.
  194. Guest Lecturer: "Trauma: Problems around the Foot and Ankle", Instructional Course Lecture, Canadian Orthopaedic Association Meeting, Montreal, Quebec, June 3, 2005.
  195. Guest Lecturer: "Foot and Ankle Surgery: Past, Present and Future", Guest Lecture, Canadian Orthopaedic Residents Association Meeting, Montreal, Quebec, June 3, 2005.
  196. Guest Lecturer: "Options for the Management of Painful Flat Foot Deformity", Instructional Course

- Lecture, Canadian Orthopaedic Association Meeting, Montreal, Quebec, June 4, 2005.
197. Guest Lecturer: "How to Start off Well in Practice", Instructional Course Lecture, Young Surgeons Forum, Canadian Orthopaedic Association Meeting, Montreal, Quebec, June 5, 2005.
  198. Guest Lecturer: "Hallux Valgus Correction Surgery", Instructional Course Lecture, Canadian Orthopaedic Association Meeting, Montreal, Quebec, June 5, 2005.
  199. Guest Lecturer: "Assessment of a Multidisciplinary Pathway for Foot and Ankle Surgical Patients from First Hospital Visit to Discharge", ISQUA Conference, Vancouver, B.C, October 28, 2005.
  200. Guest Lecturer: "Examination of the Foot and Ankle", The College of Family Physicians of Canada: Family Medicine Forum, Vancouver, BC, December 10, 2005.
  201. Guest Lecturer: "Congruent Hallux Valgus Deformity and Adolescent Bunions", Canadian Orthopaedic Foot and Ankle Society Meeting, April 8-9, 2006.
  202. Guest Lecturer: "Joint Preservation for Management of Ankle Arthritis", Canadian Orthopaedic Foot and Ankle Society Meeting, April 8-9, 2006.
  203. Guest Lecturer: "Surgeons Role in the Management of Diabetic Neuropathic Disease", Canadian Orthopaedic Foot and Ankle Society Meeting, April 8-9, 2006.
  204. Guest Lecturer: "The Lapidus Procedure", Instructional Course Lecture, Canadian Orthopaedic Association, May 2006.
  205. Guest Lecturer: "How to Interact with the Hospital", Instructional Course Lecture, Canadian Orthopaedic Association, May 2006.
  206. Guest Lecturer: "Lapidus Procedure with Weil and Distal Osteotomies", Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver, B.C, March 30-31, 2007.
  207. Guest Lecturer: "Tips to Prevent Amputation in Diabetes", Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver B.C, March 30-31, 2007.
  208. Guest Lecturer: "Flat Foot Reconstruction: My Technique", Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver B.C, March 30-31, 2007.
  209. Guest Lecturer: "Gracilis Reconstruction for Ankle Instability", Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver B.C March 30-31, 2007.
  210. Guest Lecturer: "Graft Jacket: Applications in Diabetic Foot", Wright Medical Presentation, March 29, 2007.
  211. Guest Lecturer: "Post Trauma Reconstruction of Tibial Pilon, Calcaneus and Talar Fractures", Canadian Orthopaedic Association Meeting, Halifax, Nova Scotia, June 2007.
  212. Guest Lecturer: "Diagnosing Forefoot Pain: Hallux Valgus, Arthritis, Sesamoiditis, Synovitis, Stress Fractures", 8<sup>th</sup> Biennial Canadian Foot and Ankle Symposium, April 12, 2008.
  213. Guest Lecturer: "Panel Debate: Ankle Fusion vs. Ankle Replacement", 8<sup>th</sup> Biennial Canadian Foot and Ankle Symposium, April 12, 2008.
  214. Guest Lecturer: "Distraction Subtalar Fusion after Ankle Fracture", 8<sup>th</sup> Biennial Canadian Foot and Ankle

Symposium, April 12, 2008.

215. Guest Lecturer: “Management of the Severe Non Reducible Claw Toe Deformity”, 8<sup>th</sup> Biennial Canadian Foot and Ankle Symposium, April 12, 2008.
216. Guest Lecturer, “Lisfranc Injuries”. Foot and Ankle ICL: Combined Canadian Orthopaedic and American Orthopaedic Association Meeting, Quebec City, June 5, 2008.
217. Guest Lecturer, “Arthroscopic Ankle and Subtalar Fusion ”, Foot and Ankle ICL: Combined Canadian Orthopaedic and American Orthopaedic Association meeting, Quebec City, June 6, 2008.
218. Guest lecturer: Canadian Orthopaedic association annual meeting, Whistler. “Supramaleolar osteotomies for ankle arthritis” Workshop on osteotomies. July 5<sup>th</sup> 2009.
219. Canadian Orthopaedic Foot and Ankle Society Think Tank Meeting, Whistler BC, July 6<sup>th</sup> and 7<sup>th</sup>, Update as Political Representative.
220. Guest lecturer: “Arthroscopic Ankle Fusion” 9<sup>th</sup> Biennial Canadian Orthopaedic Foot and Ankle Symposium. Toronto April 10-11<sup>th</sup> 2010.
221. Guest lecturer: “Debate: Paediatric flat foot: Operative vs. Non operative treatment” 9<sup>th</sup> Biennial Canadian Orthopaedic Foot and Ankle Symposium. Toronto April 10-11<sup>th</sup> 2010 .
222. Guest lecturer: “Update on ankle arthritis” 9<sup>th</sup> Biennial Canadian Orthopaedic Foot and Ankle Symposium. Toronto April 10-11<sup>th</sup> 2010.
223. Guest lecturer: “Expert opinion is king and science doesn’t matter in foot and ankle” Debate with Dr. S. Hansen. Orthopaedic Update Vancouver June 2010.
224. Guest lecturer: “ Lisfranc Fracture Dislocation” ICL Canadian Orthopaedic Association Meeting Edmonton Alberta. Friday June 18<sup>th</sup> 2010.
225. Master Instructor: Workshop on arthroscopic procedures Canadian Orthopaedic Association Meeting Edmonton Alberta. Friday June 18<sup>th</sup> 2010.
226. Lecturer: Foot and ankle educational evening. Joint solutions. “Results of the recent Augment Bone Graft (rhPDGF-BB) Pivotal clinical Trial”. Edmonton, Alberta Friday June 18<sup>th</sup> 2010.
227. Lecturer: Foot and ankle educational evening. Joint Solutions: “Fusions of the Future”. Edmonton, Alberta Friday June 18<sup>th</sup> 2010.
228. Guest Lecturer, COFAS ankle arthroscopy lab. Anatomic dissection for arthroscopy. Vancouver BC. January 26<sup>th</sup> 2011.
229. Guest Lecturer, COFAS ankle arthroscopy lab. Arthroscopic ankle arthrodesis. Vancouver BC. January 26<sup>th</sup> 2011.
230. Guest Lecturer, COFAS ankle arthroscopy lab. Arthroscopy of other joints. Vancouver BC. January 26<sup>th</sup> 2011.
231. Guest Lecturer, “Lisfranc Repair”. Advances in foot and ankle surgery. Cutting edge techniques in fixation. January 27<sup>th</sup> 2011.
232. Guest Lecturer, “Optimizing the patient for surgery” COFAS biannual meeting, Vancouver BC January

28 to 29<sup>th</sup>, 2011.

233. Guest Lecturer, "Lateral column lengthening and midfoot fusion" COFAS biannual meeting, Vancouver BC January 28 to 29<sup>th</sup>, 2011.
234. Course Moderator, COFAS biannual meeting, Vancouver BC January 28 to 29<sup>th</sup>, 2011.
235. Guest Lecturer, "Management of the Achilles Tendon Rupture" COFAS biannual meeting, Vancouver BC January 28 to 29<sup>th</sup>, 2011.
236. Course coordinator: Canadian Orthopaedic Association Meeting, Foot and ankle arthroscopy lab, July 2011.
237. Guest instructor: Canadian Orthopaedic Association Meeting, Ankle joint replacement saw bones instructor on STAR ankle, July 2011.
238. Guest lecturer: "Arthroscopic ankle fusion: Advantages and Limitations". Canadian Orthopaedic Association Meeting, ICL New solutions to old problems, July 2011.
239. Guest lecturer: "State of the literature in foot and ankle: How are we doing from an EBM point of view?" Canadian Orthopaedic Association Meeting, ICL Evidence –based Medicine Foot and Ankle, July 2011.
240. Guest lecturer, "Orthopaedic management of the patient with diabetes" COFAS Biannual Meeting Toronto April 21<sup>th</sup> 2012.
241. Guest lecturer "Arthroscopic triple Arthrodesis" COFAS Arthroscopy Lab Toronto April 20<sup>th</sup> 2012.
242. Guest lecturer "Arthroscopy of the first MTP joint" COFAS Arthroscopy Lab Toronto April 20<sup>th</sup> 2012.
243. Course moderator, COA arthroscopy lab, Ottawa, June 9<sup>th</sup> 2012.
244. Guest lecturer, "Multiple Joint Hindfoot and Midfoot Arthritis Joint Requires Multiple Procedures". COA, Ottawa, 8 June 2012.
245. COFAS annual retreat: "Update on research for COFAS". Osoyous, British Columbia. Saturday September 2012.
246. COFAS biannual symposium: Whistler BC. NC fusions to control forefoot supination: How and why. February 1, 2013.
247. COFAS symposium: Whistler BC: What I have learned about reconstructing syndesmosis injuries; How and why. February 1, 2013.
248. COFAS symposium: Whistler BC: TAA ankle arthroplasty - HIntegra my technique. February 2, 2013.

### **International Presentations:**

249. Guest Lecturer: "Anatomy of the Foot and Ankle", American Orthopaedic Foot and Ankle Society's "Shoe fit" Course, San Diego, CA, September 1997.
250. Course Instructor, Foot and Ankle Arthroscopy Course, Chicago, IL. October 2002.
251. Guest Lecturer: "Achilles Tendon Problems: Ruptures (acute and chronic)", Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 15, 2003.

252. Guest Lecturer: "Osteomyelitis", Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 16, 2003.
253. Guest Lecturer: "Total Ankle Arthroplasty", Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 15, 2003.
254. Guest Lecturer: "The Foot and Ankle Clinical Pathways", Presentation to the Extended Leadership Forum of Providence Health Care, October 2003.
255. Guest Lecturer: Canadian Orthopaedic Association Ambassador to the Hong Kong Orthopaedic Association, Hong Kong, November 8-9, 2003.
256. Guest Lecturer: "Wide Tourniquet Cuffs and Measurement of Limb Occlusion Pressure Allow Reduction of Tourniquet Pressure", Presentation to the Hong Kong Orthopaedic Association, November 9, 2003.
257. Guest Lecturer: "Foot and Ankle Problems in the Elderly: Keep on Dancing", Public Talk for the St. Vincent's Hospital Foundation, April 2004.
258. Guest Lecturer: "Hallux Valgus: Overview", Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 20 2004.
259. Guest Lecturer: "Cavus Foot: Overview", Advanced/Comprehensive Foot and Ankle Reconstruction Course, Puerto Rico, May 21 2004.
260. Guest Lecturer: "The Diagnosis and Treatment of the Failed Ligament Reconstruction", Symposium at the American Foot and Ankle Society, July 2004.
261. Guest Lecturer: "Ankle Arthroscopy: Indications and Techniques", Fall Course, Arthroscopy Association of North America, December 2004.
262. Guest Lecturer: "Pitfalls in the Diagnosis of Compartment Syndrome", American Orthopaedic Foot and Ankle Society Specialty Day, February 2005.
263. Guest Lecturer: "Treatment Options for Osteochondral Injuries of the Talus", Arthroscopy Association of North America Specialty Day, February 2005.
264. Guest Lecturer: "Bony and Soft Tissue Impingement in the Foot and Ankle", American Academy of Orthopaedic Surgeons Instructional Course Lecture, Chicago, IL, March 21, 2005.
265. Guest Lecturer: "Ankle Instability", Arthroscopy Association of North America Annual Meeting, Hollywood, Florida, April 2005.
266. Guest Lecturer: "Unstable Ankle Fractures: Surgical Treatment", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28- May 1, 2005.
267. Guest Lecturer: "Update on ESWT (Extracorporeal Shockwave Therapy) for Tendonosis", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28 - May1, 2005.
268. Guest Lecturer: "Role of Shock Wave Therapy and Radiofrequency in Treatment of Chronic Tendonosis", Panel Discussion, The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28 - May 1, 2005.

269. Guest Lecturer: "Management of the Cavus Foot in the Athlete", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28- May 1, 2005.
270. Guest Lecturer: "Achilles Tendon Repair: Open Technique", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28- May 1, 2005.
271. Guest Lecturer: "Frieberg's Disorder and Second MTP Joint Instability", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28- May 1, 2005.
272. Guest Lecturer: "Impingement Lesions: Soft Tissue and Bony", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28-May 1, 2005.
273. Guest Lecturer: "The Role of Arthroscopy in Ankle Instability", The American Orthopaedic Foot and Ankle Society Sports Medicine of the Foot and Ankle Course, April 28-May 1, 2005.
274. "Osteochondral Lesions of the Talus: Primary Treatment", Arthroscopy Association of North America Annual Meeting, Vancouver, BC, May 2005.
275. Guest Lecturer: Mobility Total Ankle Replacement Course, Zurich, Switzerland, October 5-8, 2005.
276. Guest Lecturer: "Primary Treatment of Osteochondral Lesions", American Academy of Orthopaedic Surgeons: Foot and Ankle Course, October 22, 2005.
277. Guest Lecturer: "Lateral Ligament Instability", American Academy of Orthopaedic Surgeons: Foot and Ankle Course, October 23, 2005.
278. Guest Lecturer: "Peroneal Tendon Subluxation", American Academy of Orthopaedic Surgeons: Foot and Ankle Course, October 23, 2005.
279. Guest Lecturer: "Pearls for Reducing Amputation Rates", Advances and Innovations in Foot and Ankle Surgery, New York City, December 9-10, 2005.
280. Guest Lecturer: "Wound Related Problems", Advances and Innovations in Foot and Ankle Surgery, New York City, December 9-10, 2005.
281. Guest Lecturer: "Triple Arthrodesis Techniques", Advances and Innovations in Foot and Ankle Surgery, New York City, December 9-10, 2005.
282. Guest Lecturer: "The Lapidus Procedure for Hallux Valgus", Advances and Innovations in Foot and Ankle Surgery, New York City, December 9-10, 2005.
283. Guest Lecturer: "Anatomy and Dissection of the Ankle and Foot", Learning Centre, Chicago, November 2006.
284. Guest Lecturer: "Treatment of Plantar Fasciitis", Learning Centre, Chicago, November 2006.
285. Guest Lecturer: "Treatment of Primary Osteochondral Defects", Learning Centre, Chicago, November 2006.
286. Guest Lecturer: "Exposure of the Ankle: Tibial and Fibular Osteotomies", Learning Centre, Chicago, November 2006.
287. Guest Lecturer: "Tips to Prevent Amputation", Update in Foot and Ankle, New York City, December 2006.

288. Guest Lecturer: "Rheumatoid Forefoot Deformities", Instructional Course Lecture, American Academy of Orthopaedic Surgeons, February 2007.
289. Guest Lecturer: "Outcomes of Agility Total Ankle Arthroplasty: The Canadian Experience", American Orthopaedic Foot and Ankle Society Annual Meeting, Toronto, Ontario, July 13, 2007.
290. Guest Lecturer: "Live Anatomy Demonstration of Ankle, Subtalar and Great Toe Anatomy", Arthroscopy Association of North America and American Academy of Foot and Ankle Surgeons Masters Course, September 8, 2007.
291. Guest Lecturer: "Osteochondral Lesions of the Talar Dome: Traditional Treatment", Arthroscopy Association of North America and American Orthopaedic Foot and Ankle Society Masters Course, September 7, 2007.
292. Guest Lecturer: "Exposures for Osteoarticular Grafting: Medial and Lateral Osteotomies", Arthroscopy Association of North America and American Orthopaedic Foot and Ankle Society Masters Course, September 8, 2007.
293. Guest Lecturer: "Great Toe and Other Small Joint: Applications in the Foot", Arthroscopy Association of North America and American Orthopaedic Foot and Ankle Society Masters Course, September 8, 2007.
294. Guest Lecturer: "Arthroscopic Anatomy of the Ankle", Arthroscopy Association of North America Web site on line courses, September 21, 2007.
295. Guest Lecturer: "Indications for Foot and Ankle Arthroscopy", Associated Procedures, Arthroscopy Association of North America Web site on line courses, July 24, 2007.
296. Guest Lecturer: "The Rheumatoid Forefoot" Instructional Course Lecture, American Academy of Orthopaedic Surgeons, San Francisco, March 5, 2008.
297. Visiting Lecturer: "OATS vs. Primary Debridement for Osteochondral Lesions of the Talus", American Orthopaedic Foot and Ankle Society Advanced Course, May 1, 2008.
298. Visiting Lecturer: "Arthroscopic Fusion of the Ankle and Subtalar Joint", American Orthopaedic Foot and Ankle Society Advanced Course, May 2, 2008.
299. Visiting Lecturer: "Lapidus Procedure for Instability and More", American Orthopaedic Foot and Ankle Society Advanced Course, May 2, 2008.
300. Visiting Lecturer: "Ankle Instability: Brostrom vs. Reconstruction", American Orthopaedic Foot and Ankle Society Advanced Course: May 2, 2008.
301. Visiting lecturer: "Anatomy of the foot and ankle" Master Instructor, Foot and Ankle Arthroscopy, AAOS Learning Center, Chicago, September 13-14, 2008.
302. Visiting lecturer: "Arthroscopic ankle arthrodesis and complex hindfoot fusions" Master Instructor, Foot and Ankle Arthroscopy, AAOS Learning Center, Chicago, September 13-14, 2008.
303. Visiting lecturer: "Osteotomies to expose the talus" Master Instructor, Foot and Ankle Arthroscopy, AAOS Learning Center, Chicago, September 13-14, 2008.
304. Visiting lecturer: "Great toe arthroscopy" Master Instructor, Foot and Ankle Arthroscopy, AAOS Learning Center, Chicago, September 13-14, 2008.



305. Guest lecturer: “Arthroscopy of the hindfoot and forefoot”. Arthroscopy association of North America Fall Meeting, Phoenix Arizona, November 2008
306. Guest Lecturer: “The Rheumatoid Forefoot” Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Las Vegas, February 25, 2009.
307. Guest Lecturer: “Peroneal Tendon Disorders” Instructional Course Lecture, American Academy of Orthopaedic Surgeons, Las Vegas, February 27, 2009.
308. American Orthopaedic Foot and Ankle Society Annual Meeting: Vancouver, BC. “Supramaleolar osteotomies for ankle arthritis” Precourse, July 14<sup>th</sup> 2009.
309. Master Instructor, Foot and Ankle arthroscopy, Live demonstration anatomy of the foot and ankle, AAOS Learning Center, Chicago, September 26<sup>th</sup> 2009.
310. Master Instructor, Foot and Ankle arthroscopy, Arthroscopic ankle fusion, AAOS Learning Center, Chicago, September 26<sup>th</sup> 2009.
311. Master Instructor, Foot and Ankle arthroscopy, Osteotomies for exposure of the talus, AAOS Learning Center, Chicago, September 26<sup>th</sup> 2009.
312. Master Instructor, Foot and Ankle arthroscopy, Great toe arthroscopy, AAOS Learning Center, Chicago, September 27<sup>th</sup> 2009.
313. Guest lecturer:”Advanced arthroscopic Hindfoot fusions”. Palm Desert, November 2009.
314. Guest lecturer: “ Rheumatoid forefoot deformities”. AAOS instructional course lecture, New Orleans. March 2010.
315. Guest lecturer:” Peroneal tendons: Fab 5 of the foot and ankle”. AAOS instructional course lecture, New Orleans. March 2010.
316. Guest lecturer: “Medial Column fusions for flat foot deformity” Specialty day presentation, AOFAS, New Orleans. March 2010.
317. Lecturer: “Canadian Trial Results”. Biomimetic information evening, July 2010 National Harbour, Maryland,USA.
318. Guest Lecturer: Vumedi Webinar, “Arthroscopic Ankle Fusions”. Monday 21<sup>st</sup> of September 2010. 270 online participants.
319. Master Instructor, Foot and Ankle arthroscopy, Live demonstration anatomy of the foot and ankle, AAOS Learning Center, Chicago, September 24<sup>th</sup> 2010.
320. Master Instructor, Foot and Ankle arthroscopy, Arthroscopic ankle fusion, AAOS Learning Center, Chicago, September 24<sup>th</sup> 2010.
321. Master Instructor, Foot and Ankle arthroscopy, Arthroscopic treatment of fractures, AAOS Learning Center, Chicago, September 26<sup>th</sup> 2010.
322. Master Instructor, Foot and Ankle arthroscopy, Great toe arthroscopy and Plantar Fascia Release, AAOS Learning Center, Chicago, September 27<sup>th</sup> 2010.

323. Guest Lecturer, Arthroscopy Association of North America, Fall Course, Scottsdale Arizona  
Arthroscopic Arthrodesis for Hindfoot Arthritis: Why and How we do it! November 2010.
324. Symposium Moderator: “Arthroscopic treatment of fractures”. Combined Arthroscopy Association of North America and American Orthopaedic Foot and Ankle Society Session, San Diego February 2011.
325. Guest Instructor: American Academy of Orthopaedic Surgeons Meeting – San Diego Surgical Treatment of Rheumatoid Disease of the Foot and Ankle February 2011.
326. Guest Instructor: “Is "Medical Clearance" Enough? Understanding Medical Issues That Can Affect Your Patients' Outcomes”. American Academy of Orthopaedic Surgeons Meeting – San Diego IC 268 February 2011.
327. Guest Instructor: “Arthroscopic treatment of ankle fractures”. Arthroscopy Association of North America Annual Meeting, San Francisco. April 2011.
328. Guest lecturer: “Cases in arthroscopic foot and ankle care”. Arthroscopy Association of North America Annual Meeting, San Francisco. April 2011.
329. Master Instructor: “Ankle, Subtalar, and Great toe dissection”. Foot and ankle course, Orthopaedic Learning Center, Chicago, September 17, 2011.
330. Master Instructor: “Complex hindfoot fusions”. Foot and ankle course, Orthopaedic Learning Center, Chicago, September 17, 2011.
331. Master Instructor: “Arthroscopy in fracture management”. Foot and ankle course, Orthopaedic Learning Center, Chicago, September 17, 2011.
332. Master Instructor: “Great toe arthroscopy”. Foot and ankle course, Orthopaedic Learning Center, Chicago, September 17, 2011.
333. Master Instructor: “Plantar fasciitis”. Foot and ankle course, Orthopaedic Learning Center, Chicago, September 17, 2011.
334. Guest lecturer, “PTT and peroneal tendoscopy”. The Orthopaedic Learning Centre at the Chinese University of Hong Kong. 21<sup>st</sup> November 2011.
335. Guest lecturer: “Complications”. American Orthopaedic foot and ankle society specialty day: San Francisco, February 2012.
336. Guest lecturer: “Endocrine aspects of Orthopaedic care”. ICL: “How can you best optimize your patient for surgery?” American Academy of Orthopaedic Surgeons: San Francisco. February 2012.
337. Invited speaker, “Ankle arthroscopy – principles and technique”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 28<sup>th</sup> 2012.
338. Invited speaker, “Back to basics: Ankle and subtalar anatomy”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 29<sup>th</sup> 2012.
339. Invited speaker, “Back to basics: Foot and ankle biomechanics talk from Dr. T. Daniels”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 29<sup>th</sup> 2012.
340. Invited speaker, “Subtalar Arthroscopy”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 29<sup>th</sup> 2012.

341. Invited speaker, “Arthroscopy of other joints in the foot”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 28<sup>th</sup> 2012.
342. Invited speaker, “Ankle replacement, principles, results and technique”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 29<sup>th</sup> 2012.
343. Invited speaker, “Hallux Valgus – an update”. SPINE (Society for Progression and Innovation in the Near East), Beirut, June 29<sup>th</sup> 2012.
344. Webinar guest speaker, Foot innovate, “Foot and ankle fracture arthroscopic reduction and minimally invasive fixation to improve outcomes” July 19<sup>th</sup> 2012.
345. Webinar speaker, “Why I prefer ankle fusions” Vumedi, August 20<sup>th</sup> 2012.
346. Master instructor, Live demonstration ankle, subtalar and great toe dissection. AAOS learning center, Chicago September 2012.
347. Master instructor, “Arthroscopic ankle arthrodesis”. AAOS learning center, Chicago September 2012.
348. Master instructor, “Complex hindfoot fusions”. AAOS learning center, Chicago September 2012.
349. Master instructor, “Great toe Arthroscopy”. AAOS learning center, Chicago September 2012.
350. Co presenter, Amarjit Bajwa and Alastair Younger, “Calcaneal fractures”. Panjabi Orthopaedic Association Conference 2012, Amritsar India. 26<sup>th</sup> October 2012.
351. Guest speaker, “Arthroscopic arthrodesis for the hindfoot and midfoot arthritis: Is it a reasonable thing to do?” AANA fall course, November 9<sup>th</sup> 2012.
352. Guest Speaker, “Midfoot trauma: Acute vs. Late Treatment: Should I Approach Them Differently? Should I Fixate or Fuse?” “Vu Medi Conference, San Francisco, November 18<sup>th</sup> 2012.
353. Guest Speaker, “Ankle Trauma: That One Case That I Thought Was Simple...The Dreaded Infection: Should I Quit While I’m Ahead?” Vu Medi Conference, San Francisco, November 17<sup>th</sup> 2012.
354. Guest Speaker, “Arthritis: Fusion vs. Arthroplasty: The Total Ankle Replacement Case That I Don’t Want To Talking About A 40-year-old Active Patient: “I Don’t Want a Fusion and I Don’t Want a Replacement.” So What Do You Want?” Vu Medi Conference, San Francisco, November 17<sup>th</sup> 2012.
355. AAOS meeting:
356. AOFAS meeting:
357. AOFAS meeting:
358. Complication course: Sesamoiditis after Medial Column Arthrodesis
359. Complication course: Is it OK to Operate Through an Ulceration?
360. Complication course: Malunion with Recurrent Ulcer after Midfoot Arthrodesis
361. Complication course: Failed Total Ankle Arthroplasty in Equinovarus

362. Complication course: Chronic pain from the Orthopaedic Standpoint: Canadian Perspective
363. Complication course: Infected Total Ankle Arthroplasty
364. Guest Speaker; Webinar: and chairman: Midfoot trauma. Feb 4 2013

(d) *Other Presentations - Scientific papers presented at national and international meetings. Supervised student names are underlined. Each paper is designated as local, national and international.*

*The names of trainees have been underlined for easy reference.*

**Local:**

1. **Younger AS**, Orr W, Tennant W, King PM: May 1988. Speaker. Scottish Paediatric Surgical Society: "A Geometric Analysis of Paediatric Forearm Fracture". Edinburgh, Scotland.
2. **Younger AS**, Tredwell SJ, Mackenzie W: The Outcome after Paediatric Forearm Fracture Reduction. Presented at the Annual Orthopaedic Update, University of British Columbia, Vancouver, BC, June 1991.
3. **Younger AS**, Beauchamp C, Duncan C, McGraw R: The Position of the Knee Joint after Total Joint Arthroplasty. Presented at the Annual Orthopaedic Update, University of British Columbia, Vancouver, BC, May 1992.
4. **Younger AS**, Mackenzie W, Gosline J, Morrison J: Articular Cartilage Changes after Tibial Lengthening in Sheep. Awarded 1st prize for research presentation at the Annual Orthopaedic Update, University of British Columbia, Vancouver, BC, June 1993.
5. **Younger AS**, Mackenzie W, Gosline J, Morrison J: The Biomechanics of Distraction Callus Created During Ilizarov Limb Lengthening in Sheep. Awarded 1st prize for research presentation at the University of British Columbia Annual Orthopaedic Update, Vancouver, BC, June 1994.
6. **Younger AS**, Marko A, MacEwan J, Day, B: The Translation of the Shoulder in Unilateral Unidirectional Anterior Dislocators and Normal Subjects. Awarded 1<sup>st</sup> prize for research presentation at the University of British Columbia Annual Orthopaedic Update, Vancouver, BC, June 1995.
7. Kokan P, **Younger AS**, Pinney S: Abnormal Radiographic findings Outside the First Ray in Hallux Valgus. Presented at UBC Orthopaedic Update, Vancouver, BC, May 26, 1999.
8. Van Bergeyk A, **Younger AS**, Carson B: CT Analysis of Chronic Lateral Ankle Instability. Presented at UBC Orthopaedic Update, Vancouver, BC, May 26, 1999.
9. Dryden P, **Younger AS**, Sawatzky BJ: Radiographic Assessment of Adult Flatfoot. Presented at UBC Resident's Day, Vancouver, BC, June 2001.
10. Nelson D, **Younger AS**: Posttraumatic Unilateral Flat Foot Deformity in Adults Secondary to Trauma: A Review of Ten Cases. Presented at UBC Residents Day, Vancouver, BC, June 2001.
11. Veri JP, McEwen JA, Inkpen K, **Younger AS**: Reduction of Tourniquet Pressure Using

Plethmographic Limb Occlusion Measurement and a Wide Contoured Cuff. Presented at UBC Residents Day, Vancouver, BC, December 2001.

12. **Younger AS**, Kalla T, DeVries G, Meakin C: Outcome of Trans Metatarsal Amputation in Diabetic Patients with Osteoset Beads. Presented at the Providence Health Care Research Day, March 12, 2004. Awarded First Prize Clinical Presentation.
13. **Younger AS**, McEwen JA, Inkpen K, Meakin C: Survey of Tourniquet Use in Foot and Ankle Surgery. Presented at the Providence Health Care Research Day March 12, 2004.
14. Meakin C, Lockwood R, Lloyd D, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle with Stability Training: Activation Changes. Presented at the Providence Health Care Research Day, March 12, 2004.
15. Meakin, C, **Younger AS**, Nebre R: Pathways in Foot and Ankle Care. Presented at the Providence Health Care Research Day, March 12, 2004.
16. Manzary M, **Younger AS**, Meakin C: A Randomized Prospective Study of Surgeon Chosen Pressure versus Automatic Pressure Selection. First Prize, Clinical Research Day, University of British Columbia Department of Orthopaedics, December 3, 2004.
17. Awwad, M, Oxland T, **Younger AS**, Larson C, DeVries G: A Biomechanical Analysis of Gracilis Repair and Brostrom Reconstruction of the Ankle. Clinical Research Day, University of British Columbia Department of Orthopaedics, December 3, 2004.
18. Topliss C, **Younger AS**, Wing K, Penner M: Outcome Scores in the Assessment of Ankle Arthritis. University of British Columbia Annual Resident and Fellow Research Day, Vancouver, BC, November 2006.
19. Apostle K, **Younger AS**, Krause F, Wing K, Penner M, Glazebrook M: Total Ankle Arthroplasty Combined with Hindfoot Fusion for the Treatment of Pantalar Arthritis. University of British Columbia Orthopaedic Residents and Fellows Research Day, April 30<sup>th</sup> 2008.
20. Krause F, **Younger AS**, Wing K, Penner M, Di Silvestro M, Daniels T, Glazebrook M, Lau J, Stothers K: Inter and Intra Observer Reliability of an End Stage Ankle Arthritis Classification System. University of British Columbia Orthopaedic Residents and Fellows Research Day, April 30<sup>th</sup> 2008.

### **National:**

21. **Younger AS**, Orr W, Tennant W, King PM: A New Index of Long Bone Deformity Predicting Outcome after Paediatric Forearm Fracture. Canadian Orthopaedic Association Meeting, Toronto, ON, May 1989.
22. **Younger AS**, Tredwell SJ, Mackenzie W: The Remodeling Potential of the Paediatric Forearm after Fracture. Canadian Resident's Association Conference, Hamilton, ON, May 1991.
23. **Younger AS**, Mackenzie W, Morrison J: Forces during Femoral Lengthening in Children. Canadian Orthopaedic Association Annual Meeting, Calgary, AB, June 1991.
24. **Younger AS**, Tredwell SJ, Mackenzie W: The Remodeling Potential of the Midshaft and Distal Paediatric Forearm after Fracture. Canadian Orthopaedic Association Annual Meeting, Calgary, AB, June 1991.

25. **Younger AS**, Beauchamp C, Duncan C, McGraw R: The Position of the Knee Joint after Total Joint Arthroplasty. Presentation at the Canadian Orthopaedic Resident's Association, Montreal, QC, May 1992.
26. **Younger AS**, Mackenzie W, Gosline J, Morrison J: Articular Cartilage Changes after Tibial Lengthening in Sheep. Presentation at the Canadian Orthopaedic Resident's Association, Saskatoon, SK, May 1993.
27. **Younger AS**, Blachut P: Sequential Intramedullary Nail Fixation Post-Ilizarov External Fixation of the Lower Extremity in Adult Patients. Presentation at the Canadian Orthopaedic Resident's Association, Saskatoon, SK, May 1993.
28. **Younger AS**, Mackenzie W, Gosline J, Morrison J: The Biomechanics of Distraction Callus Created During Ilizarov Limb Lengthening in Sheep. Awarded Basic Science Prize at the Canadian Orthopaedic Resident Association, Kingston, ON, May 1994.
29. **Younger AS**, Mackenzie W, Gosline J, Morrison J: The Biomechanics of Distraction Callus Created During Ilizarov Limb Lengthening in Sheep. Presented to the Canadian Orthopaedic Research Society, Winnipeg, MB, June 1994.
30. **Younger AS**, Mackenzie W, Gosline J, Morrison J: Articular Cartilage Changes after Tibial Lengthening in Sheep. Presented to the Canadian Orthopaedic Research Society, Winnipeg, MB, June 1994.
31. **Younger AS**, Claridge R: The Role of the Diagnostic Block in the Management of Morton's Neuroma. Presented at the Canadian Orthopaedic Association Meeting, Halifax, NS, June 1995.
32. **Younger AS**, Mackenzie W, Tredwell SJ: The Limits of Lower Extremity Fracture Angulation. Presented at the Canadian Orthopaedic Association Meeting, Halifax, NS, June 1995.
33. **Younger AS**, Marko A, MacEwan J, Day, B: Shoulder Translation in Unilateral Recurrent Anterior Dislocators and Normal Volunteers. Poster presentation at the Canadian Orthopaedic Association, Quebec City, QC, May 1996.
34. **Younger AS**, Marko A, MacEwan J, Day, B: The Inter- and Intra-Observer Reliability of Shoulder Translation Measured from an Axillary View of the Shoulder. Poster presentation at the Canadian Orthopaedic Research Society, Quebec City, QC, May 1996.
35. MacPherson H, **Younger AS**, Masri B, Duncan CP: The Outcome of Dislocation after Total Hip Arthroplasty. Poster presentation at the Canadian Orthopaedic Resident's Association Annual Meeting, Banff, AB, May 1996.
36. **Younger AS**, Masri B, Duncan C: The Outcome of PROSTALAC Two Stage Exchange for Infected Total Hip Arthroplasty. Poster presentation at the Canadian Orthopaedic Association, Quebec City, QC, May 1996.
37. **Younger AS**, Marko A, MacEwan J, Day, B: The Outcome of Revision Total Hip Arthroplasty after the Removal of a Cementless Femoral Component. Podium presentation at the Canadian Orthopaedic Association, Quebec City, QC, May 1996.
38. **Younger AS**, Schai P, Thornhill T, Scott R: The Natural History and Outcome of Radiolucent Lines under a Metal Tibial Tray During a Ten Year Period After TKA. Poster presented at the Canadian Orthopaedic Association Meeting, Ottawa, ON, June 1998.

39. **Younger AS**, Brick G: Large Segmental Acetabular Bone Deficiency after THA Reconstructed with a Whole Acetabular Allograft: A Description of Technique and Preliminary Results. Poster presented at the Canadian Orthopaedic Association Meeting, Ottawa, ON, June 1998.
40. **Younger AS**, Poss R: The Effect of a Proximal Centralizer on the Cement Mantle Surrounding a Contemporary THA: A Description of Technique and Preliminary Results. Poster presented at the Canadian Orthopaedic Association Meeting, Ottawa, ON, June 1998.
41. **Younger AS**, Poss, R: The Outcome of 80 Smooth Cemented T 28 Femoral Stems Compared with 80 grit Blasted T 28 Stems at 11 Years Follow Up. Podium presentation at the Canadian Orthopaedic Association Meeting, Ottawa, ON, June 1998.
42. **Younger AS**, Reiber G, Smith D: The Outcome of Diabetic Ulcers on the Weight Bearing Portion of the Foot. Podium presentation at the Canadian Orthopaedic Association Meeting, Edmonton AB, June 2000.
43. Van Bergeyk A, **Younger AS**, Carson B: CT Analysis of Chronic Lateral Ankle Instability. Presented at the Canadian Orthopaedic Association meeting, June 4, 2000.
44. Kokan P, **Younger AS**, Pinney S: Abnormal Radiographic findings Outside the First Ray in Hallux Valgus. Podium presentation to the Canadian Orthopaedic Association, Edmonton, AB, June 4, 2000.
45. Nelson D, **Younger AS**: Posttraumatic Unilateral Flat Foot Deformity in Adults Secondary to Trauma: A Review of Ten Cases. Canadian Orthopaedic Resident's Conference, January 2002.
46. **Younger AS**, Rempel M, Stevens K, Elgafy H: The Epidemiology and Outcome of Lateral Talar Process Fractures in Snowboarders. Presented at the Canadian Orthopaedic Foot and Ankle Society First Annual Specialty Day Meeting, May 30, 2003.
47. **Younger AS**, DeVries G, Meakin C: Radiographic Evaluation of the Medial Forefoot in Lisfranc Injury: Is a Particular Foot Type at Risk? Presented at the Canadian Orthopaedic Foot and Ankle Society First Annual Specialty Day Meeting, May 30, 2003.
48. **Younger AS**, McEwen JA, Inkpen K: Survey of Tourniquet Use in Foot and Ankle Surgery. Presented at the Canadian Orthopaedic Foot and Ankle Society First Annual Specialty Day Meeting, May 30, 2003.
49. **Younger AS**, DeVries G, Veri JP, Kalla T: Outcome Review of Trans metatarsal Amputation in Diabetic Patients as a Single Stage Procedure using Antibiotic Pellets in the Wound. Presented at the Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB, October 4, 2003.
50. **Younger AS**, Dryden P, Sawatzky BJ: Radiographic Features of Symptomatic Adult Flat Foot. Presented at the Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB, October 4, 2003.
51. **Younger AS**, Nebre R: Pathways in Foot and Ankle Care. Poster presentation at the Canadian Orthopaedic Association Annual Meeting, Winnipeg, MB, October 4, 2003.
52. **Younger AS**, Rempel M, Stevens K, Elgafy H: The Epidemiology and Outcome of Lateral Talar Process Fractures in Snowboarders. Presented at the Canadian Orthopaedic Foot and Ankle Society subspecialty meeting, Winnipeg, MB, October 4, 2003.

53. Meakin C, Lockwood R, Lloyd D, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle with Stability Training: Activation Changes. Presented at the Canadian Orthopaedic Foot and Ankle Society 1<sup>st</sup> Annual Specialty Day Meeting, Winnipeg, MB, October 4, 2003.
54. Meakin C, Lockwood R, Lloyd D, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle with Stability Training: Reflex Changes. Presented at the Canadian Orthopaedic Foot and Ankle Society 1<sup>st</sup> Annual Specialty Day Meeting, Winnipeg, MB, October 4, 2003.
55. DeVries G, **Younger AS**, Meakin C: Radiographic Evaluation of the Medial Forefoot in Lisfranc Injury: Is a Particular Type of Foot at Risk? Presented at the Canadian Orthopaedic Foot and Ankle Society First Annual Specialty Day Meeting, Winnipeg, MB, October 4, 2003.
56. **Younger AS**, McEwen JA, Inkpen K: Survey of Tourniquet Use in Foot and Ankle Surgery. Presented at the Canadian Orthopaedic Foot and Ankle Society subspecialty meeting, Winnipeg, MB, October 4, 2003.
57. **Younger AS**, Kalla T, DeVries G, Meakin C: Outcome of Trans Metatarsal Amputation in Diabetic Patients with Osteoset Beads. Presented at the National Aboriginal Diabetic Association meeting, Vancouver, BC, January 31, 2004.
58. **Younger AS**, Kalla T, DeVries G, Awwad M, Meakin C: Risk Factors for Failure of Trans Metatarsal Amputation in Diabetic Patients: A Case Control Study. Presented at the National Aboriginal Diabetic Association meeting, Vancouver, BC, January 31, 2004.
59. Awwad, M, Oxland T, **Younger AS**, Larson C, DeVries G: A Biomechanical Analysis of Gracilis Repair and Brostrom Reconstruction of the Ankle. Podium presentation, Canadian Orthopaedic Association Annual Meeting, June 2005.
60. Manzary M, **Younger AS**, Meakin C: A Randomized Prospective Study of Surgeon Chosen Pressure versus Automatic Pressure Selection. Canadian Orthopaedic Association Meeting, June 2005.
61. **Younger AS**, Nebre R, Seppelt M, Meakin C: Assessment of a Multidisciplinary Pathway for Foot and Ankle Surgical Patients from First Hospital Visit to Discharge. ISQua Meeting, Vancouver BC October 27, 2005.
62. Wadey V, Halpern J, **Younger AS**, Dev P, Olshen R, Walker D: Canadian Orthopaedic Curriculum – Foot and Ankle Reconstruction. Poster Presentation Canadian Orthopaedic Association Annual Meeting, Toronto, ON, June 2006.
63. Glazebrook M, Daniels T, Dunbar M, Leighton R, Penner M, Stone C, **Younger AS**, Wing K, Foote CJ: Patients with End Stage Ankle Arthritis have Comparable Health Related Quality of Life as Patients with End Stage Hip Arthritis Awaiting Joint Arthroplasty of Arthrodesis. Podium presentation at Canadian Orthopaedic Foot and Ankle Society Meeting at Canadian Orthopaedic Association Annual Meeting, Toronto, ON, June 2006.
64. Wadey V, Halpern J, **Younger AS**, Dev P, Olshen R, Walker D: Canadian Orthopaedic Curriculum – Foot and Ankle Reconstruction. Podium presentation at Canadian Orthopaedic Foot and Ankle Society Meeting at Canadian Orthopaedic Association Annual Meeting, Toronto, ON, June 2006.
65. Apostle K, **Younger AS**, Krause F, Wing K, Penner M, Glazebrook M: Total Ankle Arthroplasty Combined with Hindfoot Fusion for the Treatment of Pantalar Arthritis. Canadian Orthopaedic Residents Association Meeting, Quebec City, Quebec June 4<sup>th</sup> 2008.



66. Mayich J, Younger A, Wing K, Penner M: Clinical Outcomes Following Agility Total Ankle Arthroplasty: A Long Term Follow Up Study From a Single Canadian Centre. Combined Meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association, Quebec city, Quebec. June 5<sup>th</sup> to 7<sup>th</sup> 2008.
67. Glazebrook M, **Younger AS**: A cost analysis of total ankle arthroplasty, ankle fusion, total knee arthroplasty and total hip arthroplasty. Poster presentation. Combined Meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association, Quebec city, Quebec. June 5<sup>th</sup> to 7<sup>th</sup> 2008.
68. Slobogean G, Marra, CA, **Younger A**, Penner M, Wing K, Glazebrook M. Preference based Quality of Life in End Stage Ankle Arthritis, Total Ankle Arthroplasty and Ankle Arthrodesis. Canadian Orthopaedic Association Annual Meeting, Whistler BC July 4<sup>th</sup> 2009.
69. Daniels T, **Younger A**, Glazebrook M, Wing K, Penner M, Lau J. Ankle Arthrodesis vs Total Ankle Arthroplasty. Prospective Outcome Cohort Study. Canadian Orthopaedic Association Meeting 19<sup>th</sup> June 2010.
70. Pedersen E, Pinsker E, Glazebrook M, Penner M, **Younger A**, Dryden P, Daniels T. The Outcome of Total Ankle Arthroplasty in Patients with Rheumatoid Arthritis. Podium presentation Canadian Orthopaedic Association annual meeting St. Johns Newfoundland July 2011.
71. Amin A, Sproule J, Chin T, Daniels T, **Younger A**, Boyd G, Glazebrook M. Mobility TAR : The Canadian Experience. Podium presentation Canadian Orthopaedic Association annual meeting St. Johns Newfoundland July 2011.
72. Flavin R, Younger A, Penner M, Steeves M: The Importance of Plasma Sprayed Hydroxyapatite coating on titanium and implant geometry in the osseointegration of total ankle arthroplasty. Canadian Orthopaedic Association meeting Ottawa, June 8<sup>th</sup> 2012.
73. Daniels T, Glazebrook M, **Younger ASE**, Penner M, Wing K, Wong H, Dryden P. COFAS Multi Centre Study Comparing Total Ankle Arthroplasty and Ankle Arthrodesis: Mid- term Results. Canadian Orthopaedic Association meeting, Ottawa June 8<sup>th</sup> 2012.
74. Revision Rates for Nonunions after Foot and Ankle Fusions May be Decreasing in time: Experience Within a Canadian Teaching Hospital Foot and Ankle Program. Canadian Orthopaedic Association meeting, Winnipeg June 2013.
75. Comparison of Billings for 10 Foot and Ankle Procedures Between Provinces- Changes from 2002 to 2012. Canadian Orthopaedic Association meeting, Winnipeg June 2013.
76. Expectation and Satisfaction Comparing Ankle Fusion and Total Ankle Replacement. Canadian Orthopaedic Association meeting, Winnipeg June 2013.
77. Outcomes of Hindfoot and Ankle Fusions Treated with Augment Injectable Bone Graft: Results of a Prospective Randomized Controlled Trial. Canadian Orthopaedic Association meeting, Winnipeg June 2013.
78. Micromotion at the Bone-Implant Interface in Total Ankle Replacement: A Cadaveric Biomechanical Investigation of the STAR and Agility Prostheses. Canadian Orthopaedic Association meeting, Winnipeg June 2013.

79. Initial Implant Stability Affects Revision Rates for Aseptic Loosening after Total Ankle Arthroplasty. Canadian Orthopaedic Association meeting, Winnipeg June 2013.
80. Do Nonunions of Foot and Ankle Fusions Result in a Bad Outcome? Canadian Orthopaedic Association meeting, Winnipeg June 2013.
81. Establishing the Relationship between Clinical Outcome and Extent of Osseous Bridging by CAT Scan Assessment in Isolated Hindfoot And Ankle Fusions. Canadian Orthopaedic Association meeting, Winnipeg June 2013.
82. A Prospective Pilot Study of b2a-coated Ceramic Granules (Amplex) Compared to Autograft for Ankle and Hindfoot Arthrodesis. Canadian Orthopaedic Association meeting, Winnipeg June 2013.

### **International:**

83. **Younger AS**, Mackenzie W, Morrison J: Forces Measured During Femoral Lengthening in Children. Poster presentation at the 58th Annual meeting of the American Academy of Orthopaedic Surgeons, Anaheim, CA, March 1991.
84. **Younger AS**, Tredwell SJ, Mackenzie W: The Outcome after Paediatric Forearm Fracture Reduction. American Orthopaedic Association Resident's Conference, Kansas City, KS, April 1991.
85. **Younger AS**, Tredwell SJ, Mackenzie W: The Remodeling Potential of the Paediatric Forearm after Fracture. Poster presentation at the Combined Meeting of the Orthopaedic Research Societies of Canada, Japan and USA, Banff, AB, October 1991.
86. **Younger AS**, Mackenzie W, Morrison J: Forces during Femoral Lengthening in Children. Poster presentation at the Combined Meeting of the Orthopaedic Research Societies of Canada, Japan and USA, Banff, AB, October 1991.
87. **Younger AS**, Tredwell SJ, Mackenzie W: The Remodeling Potential of the Paediatric Forearm after Fracture. Presentation to the Orthopaedic Trauma Association, Seattle, WA, November 1991.
88. **Younger AS**, Mackenzie W, Morrison J: Forces during Femoral Lengthening in Children. Poster presentation at the 12th International Congress of Biomechanics, Perth, Australia, December 1991.
89. **Younger AS**, Mackenzie W, MacGraw R, Beauchamp CP: Assessment of Long Bone Angulation. Presentation at the 12th International Congress of Biomechanics, Perth, Australia, December 1991.
90. **Younger AS**, Beauchamp C, Duncan C, McGraw R: The Position of the Knee Joint after Total Joint Arthroplasty. Poster presentation at the Combined Meeting of the English Speaking World, Toronto, ON, June 1992.
91. **Younger AS**, Mackenzie W, MacGraw R, Beauchamp CP: Assessment of Long Bone Angulation. Poster presentation at the Combined Meeting of the English Speaking World, Toronto, ON, June 1992.
92. **Younger AS**, Mackenzie W, Gosline J, Morrison J: The Biomechanics of Distraction Callus Created During Ilizarov Limb Lengthening in Sheep. Presented at the American Academy of Orthopaedic Surgeons, New Orleans, LA, February 1994.

93. **Younger AS**, Mackenzie W, Gosline J, Morrison J: Articular Cartilage Changes after Tibial Lengthening in Sheep. Presented at the Association for the Study of Methods of Ilizarov Annual Meeting, New Orleans, LA, February 1994.
94. **Younger AS**, Claridge R: The Role of the Diagnostic Block in the Management of Morton's Neuroma. Presented to the American Academy of Orthopaedic Surgeons, Orlando, FL, February 1995.
95. **Younger AS**, Marko A, MacEwan J, Day, B: Shoulder Translation in Unilateral Recurrent Anterior Dislocators and Normal Volunteers. Podium presentation at the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
96. **Younger AS**, Masri B, Duncan C: The Outcome of PROSTALAC Two Stage Revision for Infected Total Hip Arthroplasty. Podium presentation at the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
97. Dunwoody J, **Younger AS**, Masri B, Duncan C: The Outcome of Revision Total Hip Arthroplasty after Removal of a Proximally Coated Cementless Stem for Thigh Pain. Podium presentation at the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 1997.
98. Poss R, **Younger AS**: Prevention of Infection after Total Knee Arthroplasty: The OR Environment. Presented at the Harvard Knee Course, May 2, 1997.
99. **Younger AS**, Schai P, Thornhill T, Scott R: The Natural History and Outcome of Radiolucent Lines under a Metal Tibial Tray During a Ten Year Period After Total Knee Arthroplasty. Presented at the American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, February 1998.
100. **Younger AS**, Kokan, P: Abnormal Radiographic findings Outside the First Ray in Hallux Valgus. Podium presentation to the American Orthopaedic Foot and Ankle Society, Vail, CO, July 13, 2000.
101. Van Bergyk A, **Younger AS**, Carson B: CT Analysis of Chronic Lateral Ankle Instability. Podium presentation to the American Orthopaedic Foot and Ankle Society, Vail, CO, July 13, 2000.
102. **Younger AS**, Inkpen K, McEwen JA: Reduction of Tourniquet Pressure using Plethmographic Limb Occlusion Measurement and a Wide Contoured Cuff. Poster presented at the combined meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association, Victoria, BC, July 2002.
103. **Younger AS**, Inkpen K, McEwen JA: Reduction of Tourniquet Pressure using Plethmographic Limb Occlusion Measurement and a Wide Contoured Cuff. Presented at the annual meeting of the American Foot and Ankle Society, July 2002.
104. Awaad, MA, Kalla TP, DeVries G, Meakin CD, **Younger AS**: Risk Factors for Failure Of Trans Metatarsal Amputation In Diabetic Patients: A Cohort Study. Accepted for presentation at the Canadian Orthopaedic Association meeting, June 2004.
105. Meakin, C, Lockwood R, Lloyd DG, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle with Stability Training. Canadian Orthopaedic Association Annual Meeting podium presentation, June 18, 2004
106. Meakin C, Lockwood R, Lloyd DG, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle With Stability Training, Canadian Orthopaedic Association Annual meeting poster presentation, June 18, 2004.

107. Meakin C, Sepelt M, **Younger AS**: Foot and Ankle Surgery Clinical Pathway. Health Care Visioning Conference 2004.
108. Meakin C, Lockwood R, Lloyd DG, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle With Stability Training. Accepted for presentation at the American Orthopaedic Foot and Ankle Society meeting, Seattle, July 2004. Nominated for the L. Goldner Award.
109. Awaad, MA, Kalla TP, DeVries G, Meakin CD, **Younger AS**: Risk Factors for Failure of Trans Metatarsal Amputation in Diabetic Patients: A Cohort Study. American Orthopaedic Foot and Ankle Society meeting, Seattle, WA, July 2004.
110. Meakin CD, **Younger AS**: Electronic Forms: How to build Microsoft Access Database Forms for Quick Data input and Calculating functional outcome scores: A comparison with Microsoft excel spreadsheets" Poster presentation, American Orthopaedic Foot and Ankle Society meeting, Seattle, WA, July 2004.
111. **Younger, AS**, Meakin CD, Nebre, RH, Sepelt M: Assessment of a Perioperative Clinical Pathway for Inpatient Foot and Ankle Surgery Patients. Poster presentation, American Orthopaedic Foot and Ankle Society meeting, Seattle, WA, July 2004.
112. **Younger AS**, DeVries G, Meakin CD, Kalla TD: Outcome Review of Trans Metatarsal Amputations in Diabetic Patients Using Antibiotic Beads. Poster presentation, American Orthopaedic Foot and Ankle Society meeting, Seattle, WA, July 2004.
113. DeVries G, Meakin CD, **Younger AS**: Radiographic Evaluation of The Medial Forefoot in Lisfranc Injury: Is a Particular Foot Type at Risk? Poster presentation, American Orthopaedic Foot and Ankle Society meeting, Seattle, WA, July 2004.
114. Meakin C, Lockwood R, Lloyd DG, Skoss R, **Younger AS**: Neuromuscular Adaptations of the Ankle With Stability Training. 11<sup>th</sup> Meeting of the Combined Orthopaedic Associations, Sidney, Australia, October 24-29, 2004.
115. Kalla TP, DeVries G, Meakin CD, **Younger AS**: Outcome of Trans Metatarsal Amputations. Presentation at the 11<sup>th</sup> Meeting of the Combined Orthopaedic Associations, Sidney, Australia, October 24-29, 2004.
116. Awwad, MA, Kalla TP, DeVries G, Meakin CD, **Younger AS**: Risk Factors for Failure of Trans Metatarsal Amputation In Diabetic Patients: A Cohort Study. Presentation at the 11<sup>th</sup> Meeting of the Combined Orthopaedic Association, Sidney, Australia, October 24-29, 2004.
117. **Younger AS**, Inkpen K, McEwen JA: Reduction of Tourniquet Pressure using Plethmographic Limb Occlusion Measurement and a Wide Contoured Cuff. Presentation at the 11<sup>th</sup> meeting of the Combined Orthopaedic Associations, Sidney, Australia, October 24-29, 2004.
118. Manzary M, **Younger AS**, Meakin C: A Randomized Prospective Study of Surgeon Chosen Pressure versus Automatic Pressure Selection. E poster, Arthroscopy Association of North America Annual Meeting, May 2005.
119. Larson CR; **Younger AS**; Awwad MA; Devries G; Sjovold SG; Veri J; Oxland TR: A Kinematic Comparison of Ankle Ligament Reconstructive Techniques. Poster, Orthopaedic Research Society, Washington, DC, March 2005.
120. Awwad, M, Oxland T, **Younger AS**, Larson C, DeVries G: A Biomechanical Analysis of Gracilis Repair and Brostrom Reconstruction of the Ankle. Podium presentation, Arthroscopy Association of

North America Annual Meeting, May 2005.

121. Meakin CD, **Younger AS**: Electronic Forms: How to build Microsoft Access Database Forms for Quick Data input and Calculating Functional Outcome Scores: A Comparison with Microsoft Excel Spreadsheets. E poster, Arthroscopy Association of North America Annual Meeting, May 2005.
122. Manzary M, **Younger AS**, Meakin C: A Randomized Prospective Study of Surgeon Chosen Pressure versus Automatic Pressure Selection. American Academy of Orthopaedic Surgeons Annual Meeting, March 2006.
123. Awaad, M, Oxland T, **Younger AS**, Larson C, DeVries G: A Biomechanical Analysis of Gracilis Repair and Brostrom Reconstruction of the Ankle. Poster presentation, American Orthopaedic Foot and Ankle Society Meeting, San Diego, CA, 2006.
124. Manzary M, **Younger AS**, Meakin C: A Randomized Prospective Study of Surgeon Chosen Pressure versus Automatic Pressure Selection. Poster presentation, American Orthopaedic Foot and Ankle Society Meeting, San Diego, CA, 2006.
125. Glazebrook M, Daniels T, Dunbar M, Leighton R, Penner M, Stone C, **Younger AS**, Wing K, Foote CJ. Patients with End Stage Ankle Arthritis have Comparable Health Related Quality of Life as Patients with End Stage Hip Arthritis Awaiting Joint Arthroplasty or Arthrodesis. Podium presentation at AAOS annual meeting, San Deigo, CA, February 2007.
126. Topliss C, **Younger AS**, Wing K, Penner M: Outcome Scores in the Assessment of Ankle Arthritis. Poster presentation, American Orthopaedic Foot and Ankle Society Meeting, Toronto, ON, July 2007.
127. Topliss C, **Younger AS**, Wing K, Penner M: Ankle Distraction as a Treatment for Ankle Arthritis. Poster presentation, American Orthopaedic Foot and Ankle Society Meeting, Toronto, ON, July 2007.
128. Glazebrook M, Daniels T, Dunbar M, Leighton R, Penner M, Stone C, **Younger AS**, Wing K, Foote CJ: Patients with End Stage Ankle Arthritis have Comparable Health Related Quality of Life as Patients with End Stage Hip Arthritis awaiting Joint Arthroplasty of Arthrodesis. Podium presentation at American Orthopaedic Foot and Ankle Society Annual Meeting, Toronto, ON, July 2007. Winner of the Roger Mann Award.
129. Awwad, M, **Younger AS**: Risk Factors for Failure of Trans Metatarsal Amputations. 12<sup>th</sup> Pan Arab Orthopaedic Congress, Amman, Jordan November 2007.
130. Awwad, M, **Younger AS**: Kinematic comparison of lateral ankle ligament reconstructive techniques. 12<sup>th</sup> Pan Arab Orthopaedic Congress, Amman, Jordan November 2007.
131. Topliss C, **Younger AS**, Wing K, Penner M: Outcome Scores in the Assessment of Ankle Arthritis. Poster presentation, British Orthopaedic Foot and Ankle Society Meeting, Carden Park, 31<sup>st</sup> November 2007.
132. Topliss C, **Younger AS**, Wing K, Penner M: Outcome Scores in the Assessment of Ankle Arthritis. American Academy of Orthopaedic surgeons annual meeting, San Francisco: Podium presentation. March 7<sup>th</sup> 2008.
133. Apostle K, **Younger AS**, Krause F, Wing K, Penner M, Glazebrook M: Total Ankle Arthroplasty Combined with Hindfoot Fusion for the Treatment of Pantalar Arthritis. American Orthopaedic Foot and Ankle Society Meeting, Denver Colorado June 25<sup>th</sup> to 29<sup>th</sup> 2008. Nominated for the Roger

Mann Award.

134. Krause F, **Younger AS**, Wing K, Penner M, Di Silvestro M, Daniels T, Glazebrook M, Lau J, Stothers K: Inter and Intra Observer Reliability of an End Stage Ankle Arthritis Classification System. American Orthopaedic Foot and Ankle Society Meeting, Denver Colorado June 25<sup>th</sup> to 29<sup>th</sup> 2008. Poster presentation.
135. Di Silvestro M, **Younger AS**, Wing K, Penner M, Krause F: Open vs. Arthroscopic Ankle Arthrodesis: A systematic Review of the Literature. American Orthopaedic Foot and Ankle Society Meeting, Denver Colorado June 25<sup>th</sup> to 29<sup>th</sup> 2008. Poster presentation.
136. Mayich J, **Younger AS**, Wing K, Penner M: Clinical Outcomes Following Agility Total Ankle Arthroplasty: A Long Term Follow Up Study From a Single Canadian Centre. American Orthopaedic Foot and Ankle Society Meeting, Denver Colorado June 25<sup>th</sup> to 29<sup>th</sup> 2008.
137. Barske H, **Younger AS**: Global Ankle Arthroscopy: MRI and cadaveric study of the medial portal. American Orthopaedic Foot and Ankle Society Meeting, Denver Colorado June 25<sup>th</sup> to 29<sup>th</sup> 2008. Poster presentation.
138. **Younger AS**, Daniels T, Wing K, Lau J: The use of RhPDGF to Promote Bone Healing in Foot and Ankle Fusions: A Prospective Study of 130 Fusions in 60 Patients. American Orthopaedic Foot and Ankle Society Meeting, Denver Colorado June 25<sup>th</sup> to 29<sup>th</sup> 2008.
139. Glazebrook M, **Younger AS**, Wing K, Penner M, Multi – Centered prospective outcome cohort study: Ankle Arthrodesis versus total ankle arthroplasty. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas. 25 Feb 2009.
140. Di Silverstro M, Wing K, Penner M, Glazebrook M, **Younger AS**. Prospective comparison of open and arthroscopic ankle arthrodesis using validated outcome measures. Poster presentation American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas. 25 Feb 2009. Best foot and ankle poster award.
141. **Younger AS**, Lau J, Daniels T, Wing K. The use of RhPDGF for foot and ankle fusions: A prospective study of 130 fusions in 60 patients. Poster presentation American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas. 25 Feb 2009.
142. Mayich J, Wing K, Penner M, Glazebrook M, **Younger AS**. The clinical outcome of Agility vs. STAR total ankle arthroplasty: A prospective tow year follow up study. Paper presentation American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas. 25 Feb 2009.
143. Apostle K, **Younger AS**, Glazebrook M, Wing K, Penner M: Hindfoot arthritis treated with a total ankle arthroplasty and hindfoot fusion. Paper presentation American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas. 25 Feb 2009.
144. Manzary M, **Younger AS**.: A Randomized Prospective Study of Surgeon Chosen Pressure versus Automatic Pressure Selection. Saudi Orthopaedic Association Meeting, Al Kobhar, Saudi Arabia, January 21<sup>st</sup> 2010.
145. Christopher DiGiovanni, MD, Sheldon L. Lin, MD; Judith F. Baumhauer, MD; Timothy R. Daniels, MD; **Younger AS**, **MBChB**; Mark A. Glazebrook, MD; John G. Anderson, MD; Johnny T.C. Lau, MD; Peter Evangelista, MDA PRC, Multi-Center, Pivotal Human Clinical Trial to Evaluate the Safety and Effectiveness of Augment Bone Graft as a Substitute for Autologous Bone. American Orthopaedic foot and ankle society specialty day, New Orleans March 2010.

146. **Younger AS**, Wing K, Di Silvestro M, Penner M, Glazebrook M. Prospective Comparison of Arthroscopic vs Open Ankle Arthrodesis using Validated Outcomes. Poster presentation American Orthopaedic Foot and Ankle Society meeting National Harbour MD July 2010.
147. **Younger, AS**: Loosening of titanium plasma spray and cobalt chrome sintered bead mobile bearing total ankle replacements. Poster presentation American Orthopaedic Foot and Ankle Society meeting National Harbour MD July 2010.
148. Bajwa A, **Younger AS**: Circlage wire fixation for Weber b ankle fractures. Poster presentation American Orthopaedic Foot and Ankle Society meeting National Harbour MD July 2010.
149. Krause F, Windolf M, Penner M, Wing K, **Younger AS**: The impact of complications in total ankle replacement and fusion analysed by prospective validated outcome at intermediate follow up. Podium presentation American Orthopaedic Foot and Ankle Society meeting National Harbour MD July 2010.
150. Krause F, Windolf M, Penner M, Wing K, **Younger AS**: The impact of complications in total ankle replacement and fusion analysed by prospective validated outcome at intermediate follow up. EFOT meeting September 2010.
151. Townshend D, **Younger AS**, Cresswell M, Penner M, Wing K. Experience with SPECT-CT to evaluate painful Total Ankle. Poster presentation American Orthopaedic Foot and Ankle Society meeting National Harbour MD July 2010.
152. Townshend D, Glazebrook M, Wing K, Penner M, **Younger AS**, Krause F,. Arthroscopic vs. Open Ankle Arthrodesis, Podium Presentation, Arthroscopy Association of North America meeting, San Francisco CA April 2011.
153. Penner M, Pakzad H, **Younger AS**, Wing K. Mean BMI in overweight and Obese Patients Does not Decrease After Successful Ankle Reconstruction. Podium presentation American Orthopaedic Foot and Ankle Society meeting Keystone CO July 2011.
154. Amin A, Sproule J, Chin T, Daniels T, **Younger AS**, Boyd G, Glazebrook M. Mobility TAR : The Canadian Experience. Podium presentation American Orthopaedic Foot and Ankle Society meeting Keystone CO July 2011.
155. Pedersen E, Pinsker E, Glazebrook M, Penner M, **Younger A**, Dryden P, Daniels T. The Outcome of Total Ankle Arthroplasty in Patients with Rheumatoid Arthritis. Poster presentation American Orthopaedic Foot and Ankle Society meeting Keystone CO July 2011.
156. Shah K, Thevendran G, **Younger AS** and Pinney S: Thromboprophylaxis after Elective Foot and Ankle Surgery: What is the State of Practice? Poster presentation American Orthopaedic Foot and Ankle Society meeting Keystone CO July 2011.
157. Thevendran G, Shah K, **Younger AS**, Pinney S. Risk Factors for Nonunion in Arthrodesis Surgery: A Survey of International Orthopaedic Foot and Ankle Surgeons. Poster presentation American Orthopaedic Foot and Ankle Society meeting Keystone CO July 2011.
158. Sproule J, Chin T, Amin A, Daniels T, **Younger AS**, Boyd G, Glazebrook M: Mobility ankle replacement: The Canadian Experience. AAOS Annual meeting podium presentation Thursday Dec 9 2012.
159. Thevendran G, Shah K, **Younger AS**, Pinney S. Risk Factors for Nonunion in Arthrodesis Surgery:

A Survey of International Orthopaedic Foot and Ankle Surgeons. Podium presentation AAOS meeting February 2012.

160. Thevendran G, Shah K, Younger AS, Pinney S. Risk Factors for Nonunion in Arthrodesis Surgery: A Survey of International Orthopaedic Foot and Ankle Surgeons. Podium presentation American Orthopaedic Foot and Ankle Society Winter meeting February 2012.
161. Dielwart, L, Younger AS, Penner M, Wing K. Expectations, Satisfaction and Outcome of Ankle Replacements and Fusions at Minimum 4 Years Follow-Up. American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
162. Daniels, T, **Younger AS**, Penner MJ., Wing KJ, Dryden P, Wong H, Glazebrook M: COFAS Multicenter Study Comparing Total Ankle Replacement and Ankle Fusion: Mid-Term Results. American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012. Winner of the Roger Mann Award 2012.
163. Daniels T, **Younger AS**, Penner M, Wing K, Le I, Russell I, Dougall H, Evangelista P, DiGiovanni C., Glazebrook M, Outcomes of Hindfoot and Ankle Fusions Treated with Augment Injectable Bone Graft: Results of a Prospective Randomized Controlled Trial. American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
164. **Younger AS**, Daniels T, Penner M, Oxland T, Mayich J, McInnes K. Mid-Term Revision Rates for a Semi Constrained Ankle Replacement Compared to a Mobile Bearing Ankle Replacement for Aseptic Loosening. American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
165. McInnes K, Oxland T, **Younger AS**: Micromotion analysis. Poster American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
166. Barske H, Younger AS: Global approach; Posterior medial approach to the ankle. Poster American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
167. Flavin R, Younger AS: comparison of two ankle joint replacements after TAA. Poster American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
168. Steeves M, Younger AS, Wing K. Analysis of nonunions of TMT fusion. Poster American Orthopaedic Foot and Ankle Society summer meeting San Diego June 21<sup>st</sup> 2012.
169. Di Giovanni, CW, Lin, SL, Baumhauer JF, Daniels TR, **Younger AS**, Glazebrook, MA, Anderson JG, Lau, JTC, Evangelista P: Recombinant Human Platelet-Derived Growth Factor – BB and Beta-Tricalcium Phosphate (rhPDGF-BB/Beta-TCP) In Foot and Ankle Fusions. Poster Orthopaedic Trauma Association meeting, Minneapolis, Minnesota Oct 3-6, 2012.
170. Daniels, T, **Younger AS**, Penner MJ., Wing KJ, Dryden P, Wong H, Glazebrook M: COFAS Multicenter Study Comparing Total Ankle Replacement and Ankle Fusion: Mid-Term Results. American Academy of Orthopaedic Surgeons. Annual Meeting. March 2013.

(f) *Other*

(g) *Conference Participation (Organizer, Keynote Speaker, etc)*



1. Moderator, 10 paper session on Orthopaedics and Tissues, XIII International Congress on Biomechanics, Perth Australia, December 1991.
2. Speaker, Grand Rounds, Department of Orthopaedics, University of Calgary, April 1997.
3. Course Faculty, Workshop, Management of the Rheumatoid Foot, Canadian Rheumatology Conference, Lake Louise, AB, February 1999
4. Course Faculty, Orthopaedic Update, University of British Columbia, May 1999.
5. Course Faculty, 4<sup>th</sup> Biennial Foot and Ankle Symposium, University of Toronto, April 8-9, 2000.
6. Course Faculty, Orthopaedic Update, University of British Columbia, May 24-26, 2000.
7. Local Coordinator, Canadian Orthopaedic Association Anica Bitenc Fellowship, June 18-24, 2000.
8. Course Faculty, St. Paul's Hospital Annual Update, November 15-17, 2000.
9. Course Faculty, Arthroscopic Surgery Symposium, Whistler, February 22-24, 2001.
10. Moderator, Resident's Day, Session on Foot and Ankle Case Presentations, May 2001
11. Course Faculty and Moderator, Resident's Day, University of British Columbia, December 2001.
12. Course Faculty, 5<sup>h</sup> Biannual Foot and Ankle Symposium, University of Toronto, April 2002.
13. Course Faculty and Royal College Visiting Professor, Glen Edwards Days, The University of Calgary, June 2002.
14. Course Faculty, Orthopaedic Update, University of British Columbia, June 2002.
15. Conference Chairman and Coordinator, 1<sup>st</sup> Annual Symposium of the Canadian Orthopaedic Foot and Ankle Society, April 12-13, 2003.
16. Course Faculty, Orthopaedic Update, University of British Columbia, May 2003.
17. Speaker, Advanced/Comprehensive Foot and Ankle Reconstruction Course, Fajardo, Puerto Rico, May 15-17, 2003.
18. Course Faculty and Moderator, 6<sup>th</sup> Biannual Foot and Ankle Symposium, University of Toronto, April 2004.
19. Course Faculty, Advanced/Comprehensive Foot and Ankle Reconstruction Course, Fajardo, Puerto Rico, May 2004.
20. Course Chairman, Foot and Ankle, Arthroscopy Association of North America, Palm Desert, CA, December 2004.
21. Cadaver Laboratory Chairman, Foot and Ankle Laboratory, Arthroscopy Association of North America, Fall Course, Palm Desert, December 2, 2004.
22. Faculty, Arthroscopy Association of North America Specialty Day, Washington, D. C. February 2005.
23. Faculty, American Orthopaedic Foot and Ankle Society Specialty Day, Washington, D.C. February 2005.

24. Moderator, Canadian Orthopaedic Foot and Ankle Society Annual Symposium, April 7-9, 2005.
25. Course Faculty, American Orthopaedic Foot and Ankle Society Sports Medicine Course, Scottsdale, Arizona, April 2005.
26. Chairman, Live Surgery Day, Canadian Orthopaedic Foot and Ankle Society, Distraction Arthroplasty and Planovalgus Foot Reconstruction with Dr. D. Beaman and Dr. G. Pomeroy. April 7, 2005.
27. Moderator, American Orthopaedic Foot and Ankle Society Sports Medicine Course, Scottsdale, Arizona, May 2005.
28. Course Coordinator, Arthroscopy Association of North America, Instructional Course on Advanced Techniques of Ankle Arthroscopy, May 2005.
29. Moderator: Hip Hip Hurray! Question night, May 16, 2005.
30. Instructional Course Chairman and Faculty, Arthroscopy Association of North America Annual Meeting, Vancouver, BC, May 2005.
31. Course Faculty, Learning Centre, Foot and Ankle Course, October 2005.
32. Faculty, Advances and Innovations in Foot and Ankle, New York City, December 10, 2005.
33. Chairman, Foot and Ankle Course, Fall Course, Arthroscopy Association of North America, Phoenix, Arizona, December 2005.
34. Instructional Course Lecture Faculty, American Academy of Orthopaedic Surgeons, March 2006.
35. Course Faculty, first Canadian Orthopaedic Foot and Ankle Society think tank, Niagara, ON, June 2006.
36. Moderator, Canadian Orthopaedic Foot and Ankle Society Symposium, Toronto, Ontario, April 2006.
37. Moderator, Arthroscopy Association of North America Annual Meeting, Florida, May 2006.
38. Course Faculty, Arthroscopy Association of North America Annual Meeting, Florida, May 2006.
39. Course Faculty, University of British Columbia Annual Update, May 2006.
40. Course Faculty, Arthroscopy Association of North America Annual Meeting, Hollywood, CA, June 2006.
41. Local Host, American Orthopaedic Foot and Ankle Society Traveling Fellows, July 2006.
42. Course Faculty, Arthroscopy Association of North America fall Meeting, Palm Desert, CA, November 2006.
43. Master Instructor, Arthroscopy Association of North America, Learning Center in Foot and Ankle Arthroscopy, November 2006.
44. Guest Faculty, Northwestern University, Chicago, IL, November 2006
45. Course Faculty, Advances and Innovations in Foot and Ankle, New York City, December 2006.
46. Course Faculty, Learning Center Foot and Ankle Course, Chicago, November 2006.

47. Course Coordinator & Chairman, Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver, BC, March 2007.
48. Master instructor, Arthroscopy Association of North America, Learning Center in Foot and Ankle Arthroscopy, September 2007.
49. Course Faculty, Canadian Orthopaedic Association annual meeting, Halifax, June 2007.
50. Course Faculty, American Orthopaedic Foot and Ankle Society Summer Meeting, Toronto, Ontario. July 2007.
51. Course Faculty, American Academy of Orthopaedic Surgeons Annual meeting; Instructional Course Lecture on Rheumatoid Foot deformities. March 5<sup>th</sup> 2008.
52. Course Faculty, Advanced foot and ankle course of the AOFAS, May 1-3, 2008. San Francisco.
53. Course Faculty, Canadian Orthopaedic Foot and Ankle Society Symposium, Toronto, 12<sup>th</sup> and 13<sup>th</sup> of April, 2008.
54. Course faculty, COA and AOA combined meeting, Quebec city, June 4<sup>th</sup> to 8<sup>th</sup> 2008.
55. Canadian Orthopaedic Foot and Ankle Society Think Tank, La Mabele, June 8<sup>th</sup> and 9<sup>th</sup>, 2008.
56. Course moderator, American Orthopaedic foot and ankle society meeting, Denver Co, June 28<sup>th</sup> to 31<sup>st</sup> 2008.
57. Master Instructor, Learning center foot and ankle course, Chicago, September 13<sup>th</sup> and 14<sup>th</sup> 2008.
58. Course Faculty, Arthroscopy association of North America Fall Meeting, Scottsdale Arizona November 2008.
59. Instructional course lecturer, American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, Nevada February 2009.
60. Local host, American Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver, BC. July 14<sup>th</sup> to 18<sup>th</sup> 2009.
61. Moderator, Scientific session, Canadian Orthopaedic Association Meeting, Whistler BC, July 4<sup>th</sup> 2009.
62. Moderator, Tricks and Tips Session, Canadian Orthopaedic Association Meeting, Whistler, BC July 6<sup>th</sup> 2009.
63. COFAS think tank, July 2009, Whistler BC.
64. Moderator, Scientific session, American Orthopaedic Foot and Ankle Society Meeting, Vancouver BC July 16<sup>th</sup> 2009.
65. Local Host, American Orthopaedic Foot and Ankle Society Travelling Fellows, July 18<sup>th</sup> to 22<sup>nd</sup> 2009.
66. Guest Lecturer, Arthroscopy Association of North America, Palm Dessert, November 19 to 21<sup>st</sup> 2009.
67. Guest Professor, Saudi Arabian Orthopaedic Association Meeting, Al Kobar, Saudi Arabia, January 13<sup>th</sup> to 22<sup>nd</sup> 2010.

68. Instructional course lecturer, American Accademy of Orthopaedic Surgeons, March 10 to 13<sup>th</sup> 2010.
69. Guest Lecturer, COFAS symposium, Toronto Ontario April 9 to 11<sup>th</sup> 2010.
70. Guest Lecturer, University of British Columbia Update, May 13<sup>th</sup> to 14<sup>th</sup> 2010.
71. Guest Lecturer, Canadian Orthopaedic Association Meeting, June 17 to 20<sup>th</sup> 2010.
72. Guest lecturer, Biomimetic Symposium, AOFAS annual Meeting, National Harbour, Maryland, July 7<sup>th</sup> 2010.
73. Master Instructor, Foot and Ankle arthroscopy, AAOS Learning Center, Chicago, September 2010.
74. Course Chairman, Biomimetrics and Corin presentation at COA, June 2010.
75. COFAS think tank, June 2010. River Cree Resort.
76. Master Instructor, Foot and Ankle arthroscopy, AAOS Learning Center, Chicago, September 2010.
77. Visiting Surgeon, University of Alberta, Edmonton October 2010. Techniques in arthroscopic ankle arthrodesis.
78. Guest Lecturer, Arthroscopy Aassociation of North America Fall Meeting, Scotsdale Arizona November 2010.
79. Course Chairman, COFAS ankle arthroscopy lab, January 26<sup>th</sup> 2011.
80. Course Chairman, COFAS resident and fellow sawbones half day, January 27<sup>th</sup> 2011.
81. Course Chairman, Canadian Orthopaedic Foot and Ankle Society Annual Meeting, Vancouver B. C. January 2011.
82. Instructional Course Lecturer, AAOS meeting, February 2011.
83. Guest Lecturer, Canadian Orthopaedic Association Meeting, St. John's Newfoundland July 2011.
84. Guest Lecturer, Arthroscopy Association of North America Meeting, San Fransisco, CA April 2011.
85. Master Instructor, Foot and Ankle arthroscopy, AAOS Learning Center, Chicago, September 2011.
86. Guest lecturer, COFAS annual symposium, April 2012. Toronto Ontario.
87. Guest lecturer, UBC family medicine update (CME on the Run). June 2012.
88. Guest lecturer, Family medicine update, Victoria, June 2012.
89. Guest lecturer, Canadian Orthopaedic Association Meeting, Ottawa, Ontario, June 2012..
90. Invited guest speaker, SPINE meeting, Beruit, June 2012.
91. Guest speaker, COFAS retreat, Oosoyous, BC. September 2012.
92. Master Instructor, AAOS Learning center, September 2012.

93. Guest lecturer, AANA fall meeting, November 2012.
94. Guest speaker, British Orthopaedic Foot and Ankle Society, November 2012.
95. Invited speaker, Vu Medi Symposium, San Francisco, November 2012.
96. Invited guest speaker, Royal College of Surgeons, Glasgow, November 2012.
97. Invited guest speaker, AOFAS specialty Day, March 2013.
98. Instructional course lecturer, AAOS meeting, March 2013.
99. Master Instructor, AANA foot and ankle course, AAOS learning center, Chicago, IL Sept 2013.

*(h) Future Planned*

## **10.1 SERVICE TO THE UNIVERSITY**

*(a) Memberships on committees, including offices held and dates*

*(b) Other service, including dates*

1. Orthopaedic Residency Training Committee, Department of Orthopaedics 2004 to present
2. Foot and Ankle Representative, Division of Lower Extremity Reconstruction and Oncology, Department of Orthopaedics. 2001-2008.
3. Foot and Ankle Representative, Division of Arthroscopy and Athletic Injuries, Department of Orthopaedics 2001 - 2007
4. Member, Clinical Faculty Association, 1998-present
5. Resident selection committee Department of Orthopaedics February 2008
6. Orthopaedic Representative, Year 4 committee, University of British Columbia Medical School, July 2007 to July 2010.
7. Academic Director, Orthopaedic Research Office, St. Paul's Hospital – November 2008 to present.
8. Head, Division of Extremity Surgery, Department of Orthopaedics. January 2009 – July 2010.

## **10.2 SERVICE TO THE HOSPITAL**

*(a) Memberships on committees, including offices held and dates*

1. Member, Search Committee for Patient Care Leader Ambulatory Care and Medicine, Providence Health care, June 2002.
2. Member, Site Consolidation Committee, Providence Health Care, May-October 2002.
3. Member, Search Committee for Head, Division of Orthopaedics, Providence Health Care, September-October 2002.
4. Member, Search Committee for Head, Division of Radiology, Providence Health Care, October 2002.
5. Member, Surgical Services Planning Project, Review of Foot and Ankle Surgery in the Coastal Health Region, August-November 2003.
7. Member, Foot and Ankle Research Committee, Providence Health Care, 2002-2004.
8. Physician Leader, Ambulatory Care, Surgical Program Steering Committee, Providence Health Care

2001-2006.

9. Member, Foot and Ankle Clinic, ADH/PL Committee, Providence Health Care.
10. Foot and Ankle Representative, Mount St. Joseph/St. Vincent Hospital Surgical Care Committee, Providence Health Care.
11. Physician Leader, Ambulatory Care Redesign Committee, Providence Health Care.
12. Member, Surgical Accreditation Team, St. Paul's Hospital, April 2004.
13. Member, Ambulatory Care Accreditation Team, St. Paul's Hospital. April 2004.
14. Member, Outpatient redesign team, July 2007 –Jan 2009
15. Member, Arthroscopy tower RPC. November 2007 –Feb 2008
16. Member, Legacy project task force. November 2007 –2008.
17. Member, Library committee, St. Paul's hospital. November 2007-
18. Physician leader surgical outpatients, St. Paul's Hospital July 2011-

(b) *Other service, including dates*

1. Head, Department of Orthopaedics, St. Vincent's Hospital, July 2000-March 2004
2. Physician Leader, Ambulatory Care, Providence Health Care, November 2001-July 2006.
3. Director, Foot and Ankle Program, Providence Health Care, 2001 to present.
4. Physician Leader, 3North Surgical Clinic, Providence Health Care, 2002 to 2006.
5. Outpatient redesign committee, 2006 to 2008.
6. Library committee 2007 to present
7. Mission team member, St. Vincent's hospital, 2001-2003.
8. Director of Orthopaedic Research July 2008 –

## 11. **SERVICE TO THE COMMUNITY**

(a) *Memberships on scholarly societies, including offices held and dates*

1. First Aid Ski Patrol Member, Grouse Mountain, 2005 and 2006.
2. Beaver Leader, 21<sup>st</sup> St. Mary's Scouts, 2005 to 2007.
3. Cub Leader 21<sup>st</sup> St. Mary's Scouts, 2007 to 2010.
4. Team Manager, Dunbar Junior Soccer League, 2005 to 2006.
5. Blackcomb Volunteer ski patrol, 2009 until present.

(b) *Memberships on other societies, including offices held and dates*

1. Member, Scottish Paediatric Surgical Society, 1986-1988.
2. Member, British Medical Association, 1986-present.
3. Member, American Academy of Orthopaedic Surgeons, 1990-present.
4. Member, Canadian Medical Association, 1990-present.
5. Member, Canadian Orthopaedic Association, 1991-present.
6. Orthopaedic Representative, Professional Association of Interns and Residents of British Columbia, 1992-1993.
6. Member, Canadian Trauma Association, 1992-1994.
7. Member, British Columbia Medical Association 1995-present.
8. Member, Society of Specialists of BC, 1998-present.
9. Member, American Orthopedic Foot and Ankle Society, 1998-present.
10. Member, British Columbia Orthopaedic Association, 1998-present.
11. Member, Vancouver Medical Association, 1998-present.
12. Member, Canadian Orthopaedic Foot and Ankle Society, 2001-present.
14. Member, Arthroscopy Association of North America, May 2003- present.

*(c) Memberships on scholarly committees, including offices held and dates*

1. Chairman, Aberdeen University Blues Committee, 1985.
2. Chairman of Undergraduate Academic Discipline Committee, School of Kinesiology, 1989-1990.

*(d) Memberships on other committees, including offices held and dates*

1. Member, Hip Hip Hooray Vancouver local disbursement committee, July 2001-2006
2. Physician Representative, St. Vincent's hospital Mission team, February 2002-2004
3. BC Representative, Canadian Orthopaedic Association Board, July 2002-2005
4. Member, International Committee, American Orthopaedic Foot and Ankle Society, May 2002-2003
5. Member, Canadian Orthopaedic Association Committee on Professional Development, July 2002-2006
6. Member, Arthroscopy Association of North America Education Committee, July 2003 to 2006
7. Member, Arthroscopy Association of North America learning center Committee July 2004 to 2006
8. Member, Program Committee of Canadian Orthopaedic Association, 2004.
9. Research Committee: American Orthopaedic Foot and Ankle Society. 2006.
10. Member, Education Committee, American Orthopaedic Foot and Ankle Society, 2007- present
11. Founding Member, Canadian Orthopaedic Foot and Ankle Society, June 2002.
12. Secretary, Canadian Orthopaedic Foot and Ankle Society, July 2002- to July 2004.
13. President, Canadian Orthopaedic Foot and Ankle Society, July 2004 to July 2006.
14. Political liason, Canadian Orthopaedic Foot and Ankle Society, July 2007 to July 2009
15. Member, Nominating Committee, Canadian Orthopaedic Association, July 2008 – 2010
16. Research Director, Canadian Orthopaedic Foot and Ankle Society, July 2009 July 2011
17. Member at large, Canadian Orthopaedic Foot and Ankle Society executive, July 2011-
18. Member, Exchange Fellowship Committee, Canadian Orthopaedic Association, July 2010-
19. Member, AOFAS education committee, July 2008 -

*(e) Editorships (list journal and dates)*

1. Guest editor, foot and ankle clinics, 2006
2. Guest editor, foot and ankle clinics, 2012

*(f) Reviewer (journal, agency, etc. including dates)*

1. Reviewer Physicians services incorporated foundation, March 2004 and March 2010.
2. Clinical Orthopaedics and Related Research, June 2003 to present.
3. Foot and Ankle International, 2004 to present
4. Canadian Journal of Surgery, 2000 to present
5. Foot and ankle clinics, 2006 to present
6. Journal of Bone and Joint Surgery ((British), July 2007 to present
7. Journal of Bone and Joint Surgery (American), July 2010 to present
8. Journal of Bone and Joint Research July 2011 to present
9. Knee Surgery, Sports Traumatology and Arthrsocopy, August 2012 to present
10. Techniques in foot and ankle. August 2012 to present

*(g) External examiner (indicate universities and dates)**(h) Consultant (indicate organization and dates)*

1. Consultant, Western Clinical Devices, research group for the development of Shoulder Translation Device, January 1995-July 1996.
2. Advisor, Western Clinical Devices, for development of Tourniquets, 2002 to 2005.
3. Advisor, Mentice Incorporated, for development of Computer Simulation of Ankle Arthroscopy, 2002 to 2004.
4. Clinical Investigator, affiliated with BioClin Health Research, Richmond, BC, October 2001-2002.
6. Consultant, Zimmer, Total Ankle Arthroplasty design. 2005 to 2009.
7. Consultant, ABI, Ankle implant. 2004 to 2008.
8. Principal Investigator, Biomimetic inc. with regards to bone graft substitutes, Foot and Ankle applications. 2005 to present.
9. Consultant, Depuy, Total Ankle Arthroplasty outcomes. 2005-2006.
10. Consultant Linvatec – arthroscopic foot and ankle surgery. July 2006 –2011
11. Consultant Small Bone Innovations (STAR total ankle) March 2009 –2011
12. ACUMED. Development of implants for foot and ankle surgery. August 2012 -

(i) *Other service to the community*

1. Various posts, Aberdeen University Athletic Association, 1982-1985
2. Team captain, Treasurer and Vice president, Aberdeen University ski club, 1981-1984
3. Universities representative to the Scottish National Ski Council, 1982-1984
4. Physician Chair, Hip Hip Hooray Charity Walk, 2004 to 2006.
5. Donations for foot and ankle research
  - a. 2003 53,000 dollars research assistant salary
  - b. 2004 21,000 dollars research assistant salary
  - c. 2010 20,000 dollars via SPH foundation
  - d. 2011 10,000 dollars via SPH foundation
  - e. 2012 22,000 dollars via SPH foundation
6. Providence in the park: Volunteer 2012. Brought whole family down and handed out clothes to homeless people.

**12. AWARDS AND DISTINCTIONS**

(a) *Awards for Teaching (indicate name of award, awarding organizations, date)*

(b) *Awards for Scholarship (indicate name of award, awarding organizations, date)*

1. Graduate Scholarship Award, Simon Fraser University, 1989.
2. Graduate Scholarship Award, Simon Fraser University, 1990.
3. Terry Fox Scholarship Award, Simon Fraser University, 1990.
4. 1st Prize for Research Project, University of British Columbia Orthopaedic Update, July 1993.
5. Basic Science Prize, Canadian Orthopaedic Residents Association Meeting, Kingston, ON, May 1994.
6. 1st Prize for Research Project, University of British Columbia Orthopaedic Update, July 1994.
7. 1st Prize for Research Project, University of British Columbia Orthopaedic Update, July 1995.
8. MCh Thesis accepted with Commendation, Aberdeen University, May 1997.
7. North American Traveling Fellowship, October- November 1997.
8. Clinical Prize, Providence Health Research Day, March 12, 2004.
9. Clinical Prize Winner Supervisor, University of British Columbia Orthopaedic Update, December 2004.



10. Second Prize for Posters, American Orthopaedic Foot and Ankle Society Annual Meeting, July 2006.
11. American British Canadian (ABC) Traveling Fellow, April- May 2007.
12. Nomination for Roger Mann Award – Summer meeting AOFAS 2008.
13. Best poster award in foot and ankle: AAOS meeting, Las Vegas, March 2009.
14. Second best poster – AOFAS meeting Keystone CO July 2011.
15. University of British Columbia Faculty of Medicine Outstanding Academic Performance Award July 2011
16. Roger Mann award. AOFAS best clinical paper. Annual meeting San Diego June 2012.

(c) *Awards for Service (indicate name of award, awarding organizations, date)*

1. 3M Award for Quality Improvement in Health care, Canadian College of Health Care Executives.
2. J.F. McCreary Prize for Inter professional teamwork 2004: Honourable Mention.

(d) *Other Awards*

**13. OTHER RELEVANT INFORMATION (Maximum One Page)**

*Other Interests:*

- Music: Grade 6 French horn
- Boy Scout and patrol leader: 1972 to 1975
- Member of school Orchestra and Brass group 1975 to 1980
- Skiing: Racing for clubs in Europe 1975-1978
- Member of British "B" squad 1978-1980
- University Ski team 1980-1985
- University full blue in skiing 1984
- Rugby: School 2nd XV
- University 2nd and 3rd XV 1980 to 1984
- Tennis: Member of Vancouver Lawn Tennis Club 1990 to present
- Golf: Member of the Royal and Ancient Golf club of St. Andrews 1990 to present
- Mountain Bicycle Racing: Novice certificate for British Columbia and Member of the British Columbia Cycling Association 1994-2000
- Running; Completed two half marathons in 2007 and 2008, 10 K runs annually.
- Hip hop Dance: Member of competitive dance group. Awarded first place in peak invitational, May 2008.
- Hiking and camping.
- Car building: Construction of a Factory Five Roadster with elder son – 2010 –
- Skiing: Volunteer hill doctor – Blackcomb mountain 2009 until present

*Contributions to the Orthopaedic Research Office and St. Paul's Hospital Foundation.*

The orthopaedic research office was started by a direct salary from my corporation. In due course these funds were paid through the department of Orthopaedics.

Under the direction of Mr. Bora the research office has trained 9 coop students, 7 summer students, and 26 volunteer students. The research office has been a successful training ground for research coordinators and students with an introduction to research methodology.

**THE UNIVERSITY OF BRITISH COLUMBIA***Publications Record*

SURNAME: Younger

FIRSTNAME: Alastair

Initials: ASE

MIDDLE NAME(S):

Stephen E.

Date: December 2011

**1. REFEREED PUBLICATIONS***Notes:*

Supervised surgeons are marked with an underline. Supervising surgeons are in italics. As most responsible author I mentored the surgeon trainee through the process of data acquisition, ethics, write up, paper submission, reviewers comments and final submission. For any trainee who went through this process I made them first author to encourage their careers. Contributions are added in italics for contributing authorship papers.

**ALASTAIR YOU NEED TO UNDERLINE TRAINEES ALSO THEREI S AN ASTERIX i AM NOT SURE THAT IT REFERS TO**

Compilation of Impact factors for Orthopaedic Journals – 2012.

Listed is the top ranked orthopaedic journal (IF 3.9). The remainder are either journals I have published in (in bold) or likely to publish in in the future. I also have published in the British Journal of Surgery so it is also listed. Please note that by virtue of the wide variety of orthopaedic topics published in orthopaedic journals, the impact factors tend to be much lower than specialized journals. For example, the most prestigious orthopaedic journal (Journal of Bone and Joint Surgery) has an impact factor of 3.27.

Rank	Journal	Impact factor
(general surgery)	Brit. J. Surg	9.33
1	Osteoarthr Cartilage	3.9
<b>4</b>	<b>JBJS Am</b>	<b>3.27</b>
6	Arthroscopy	3.02
<b>8</b>	<b>JBJS Br</b>	<b>2.83</b>
9	J Orthop Research	2.81
<b>12</b>	<b>J Am Ac Orthop Surg</b>	<b>2.66</b>
<b>13</b>	<b>Clin Orthop Relat R</b>	<b>2.53</b>
<b>14</b>	<b>J Arthroplasty</b>	<b>2.38</b>
<b>23</b>	<b>Injury</b>	<b>1.98</b>
<b>33</b>	<b>Foot Ankle Int</b>	<b>1.22</b>

*(a) Journals*

1. **Younger, AS; Gunn, AA:** A more realistic way of practising surgical knots using a surgical glove. Br J Surg. **76:** 347, 1989. (impact factor 9.33) FA.
2. Siriwardena, AK; Small, PK; **Younger, AS;** Wallace, IW: Transurethral resection of the prostate without routine antibiotic prophylaxis: screening for complications. J R Coll Surg Edinb. **35:** 95-97, 1990. (impact factor 0.714) CA. *Assisted in data management and write up.*
3. **Younger, AS;** Curran, P; *McQueen, MM:* Backslabs and plaster casts: which will best accommodate increasing intracompartmental pressures? Injury. **21:** 179-181, 1990. (impact

factor 2.33) FA

4. **Younger, AS; Tredwell, SJ; Mackenzie, WG:** The relationship of angulation to translation in fracture deformities. *J Bone Joint Surg Am.* **77:** 488-489, 1995. (impact factor 3.27) FA
5. **Younger, AS; Tredwell, SJ; Mackenzie, WG:** Factors affecting fracture position at cast removal after pediatric forearm fracture. *J Pediatr Orthop.* **17:** 332-336, 1997. (impact factor 1.15) FA
6. **Younger, AS; Tredwell, SJ; Mackenzie, WG; Orr, JD; King, PM; Tennant, W:** Accurate prediction of outcome after pediatric forearm fracture. *J Pediatr Orthop.* **14:** 200-206, 1994. (impact factor 1.15) FA
7. **Younger, AS; Mackenzie, WG; Morrison, JB:** Femoral forces during limb lengthening in children. *Clin Orthop Relat Res.* 55-63, 1994. (impact factor 2.53) FA
8. **Younger, AS; Beauchamp, CP; Duncan, CP; McGraw, RW:** Position of the knee joint after total joint arthroplasty. *J Arthroplasty.* **10:** 53-61, 1995. (impact factor 2.29) FA
9. **Younger, AS; Duncan, CP; Masri, BA; McGraw, RW:** The outcome of two-stage arthroplasty using a custom-made interval spacer to treat the infected hip. *J Arthroplasty.* **12:** 615-623, 1997.(impact factor 2.29) FA.
10. Spangehl MJ, **Younger AS, Masri BA, Duncan CP:** Diagnosis of Infection following Total Hip Arthroplasty. *J Bone Joint Surg Am* 79-A(10):1578-1588, 1997. (impact factor 3.27) FA. *Assisted in data management and write up.*
11. **Younger, AS; Claridge, RJ:** The role of diagnostic block in the management of Morton's neuroma. *Can J Surg.* **41:** 127-130, 1998. FA
12. **Younger, AS; Duncan, CP; Masri, BA:** Treatment of infection associated with segmental bone loss in the proximal part of the femur in two stages with use of an antibiotic-loaded interval prosthesis. *J Bone Joint Surg Am.* **80:** 60-69, 1998. (impact factor 3.27) FA
13. **Younger, AS; Duncan, CP; Masri, BA:** Surgical exposures in revision total knee arthroplasty. *J Am Acad Orthop Surg.* **6:** 55-64, 1998. (impact factor 2.66) FA
14. Schai, PA; Scott, RD; **Younger, AS:** Total knee arthroplasty in Paget's disease: technical problems and results. *Orthopedics.* **22:** 21-25, 1999. (impact factor 2.66) CA. *Assisted in data management and write up.*
15. Van Bergeyk, AB; **Younger, AS;** Carson, B: CT analysis of hindfoot alignment in chronic lateral ankle instability. *Foot Ankle Int.* **23:** 37-42, 2002. (Impact factor 1.101) SA
16. Chi, TD; Davitt, J; **Younger, AS;** Holt, S; *Sangeorzan, BJ:* Intra- and inter-observer reliability of the distal metatarsal articular angle in adult hallux valgus. *Foot Ankle Int.* **23:** 722-726, 2002. (Impact factor 1.101) CA . *Read radiographs as a blinded reviewer.*
17. **Younger AS,** Wing KJ: Stage 2 Medial Column Fusion – The Navicular Cuniform Fusion. *Techniques in Foot and Ankle Surgery* 2(2): 74-83, 2003. FA

18. Kalla, TP; **Younger, AS**; McEwen, JA; Inkpen, K: Survey of tourniquet use in podiatric surgery. J Foot Ankle Surg. **42**: 68-76, 2003. (impact factor 0.516) SA
19. Saltzman, CL; Amendola, A; Anderson, R; Coetzee, JC; Gall, RJ; Haddad, SL; Herbst, S; Lian, G; Sanders, RW; Scioli, M; **Younger, AS**: Surgeon training and complications in total ankle arthroplasty. Foot Ankle Int. **24**: 514-518, 2003.(Impact factor 1.101) CA. *submitted cases and assisted in compilation of data.*
20. **Younger, AS**; Hansen, ST, Jr.: Adult cavovarus foot. J Am Acad Orthop Surg. **13**: 302-315, 2005. (impact factor 2.66) FA
21. **Younger, AS**; Kalla, TP; McEwen, JA; Inkpen, K: Survey of tourniquet use in orthopaedic foot and ankle surgery. Foot Ankle Int. **26**: 208-217, 2005. (Impact factor 1.101) FA
22. **Younger, AS**; McEwen, JA; Inkpen, K: Wide contoured thigh cuffs and automated limb occlusion measurement allow lower tourniquet pressures. Clin Orthop Relat Res. 286-293, 2004. (impact factor 2.53) FA
23. **Younger AS**: Trans Metatarsal Amputation using Calcium Sulfate Antibiotic-loaded Pellets in Diabetic Patients. Techniques in Foot and Ankle Surgery. 3(3):177-185, Sept 2004. FA
24. **Younger, AS**; Sawatzky, B; Dryden, P: Radiographic assessment of adult flatfoot. Foot Ankle Int. **26**: 820-825, 2005. (Impact factor 1.101) FA
25. **Younger, AS**: Customized or prefabricated foot orthoses improved function only in the short term in patients with plantar fasciitis. J Bone Joint Surg Am. **89**: 458, 2007.(impact factor 3.27) FA
26. **Younger AS**: Shockwave Treatment for Foot and Ankle Conditions. Techniques in Foot and Ankle: **5(1)**:60-65. March 2006. FA
27. Calvert, E; **Younger, AS**; Penner, M; Wing, K: Trans Metatarsal Amputation. Techniques in foot and ankle. **6(3)**:140-146, Sept 2007. SA

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28. Glazebrook, M; Daniels, T; **Younger, AS**; Foote, CJ; Penner, M; Wing, K; Lau, J; Leighton, R; Dunbar, M: Comparison of health-related quality of life between patients with end-stage ankle and hip arthrosis. J Bone Joint Surg Am. **90**: 499-505, 2008. (impact factor 3.27) CA

*In this study we demonstrated the disability of patients undergoing foot reconstruction. This paper has been quoted many times since and has allowed us to advocate for foot and ankle patients at a hospital, national and international level. It was awarded the Roger Mann award when first presented at the American Orthopaedic Foot and Ankle Society, the top award for research internationally for foot and ankle. This was a first for a Canadian study group. The research idea was conceived by Dr Glazebrook and myself in discussion at the AOFAS meeting in 2006. I set up the database in Vancouver for this multicentre trial and managed the Vancouver data.*

29. Chu, CR; Antoniou, J; Donley, BG; Frick, SL; Hilibrand, AS; Ricci, WM; **Younger, AS**: The

2007 ABC Traveling Fellowship: building international orthopaedic bridges. *J Bone Joint Surg Am.* **90**: 672-674, 2008. (impact factor 3.27) CA. *Assisted in the write up.*

30. Wadey, VM; Halpern, J; **Younger, AS**; Dev, P; Olshen, RA; Walker, D: Orthopaedic surgery core curriculum: foot and ankle reconstruction. *Foot Ankle Int.* **28**: 831-837, 2007. (Impact factor 1.101) SA. *Supervised the primary author and assessed the foot and ankle content and relevance. This was one of a series of papers sponsored by the Royal College of Physicians and Surgeons of Canada.*
31. Chaidez Rosales, P; **Younger, AS**; Renan Leon, S; Poss, R: [Survival of the T28 femoral stem. Comparison of polished versus roughed-surface finish]. *Acta Ortop Mex.* **22**: 350-355, 2008. CA. *Compiled the data and wrote a preliminary draft.*
32. Apostle, KL; **Younger, AS**: Technique tip: open reduction internal fixation of comminuted fractures of the navicular with bridge plating to the medial and middle cuneiforms. *Foot Ankle Int.* **29**: 739-741, 2008. (Impact factor 1.101) SA
33. Krause, FG; Wroblewski, JA; **Younger, AS**: Pigmented villonodular synovitis in both hindfeet. *Can J Surg.* **52**: E38-39, 2009. SA
34. Mayich, DJ; **Younger, AS**; Krause, F: The reverse Silfverskiold test in Achilles tendon rupture. *CJEM.* **11**: 242-243, 2009. SA
35. Krause, FG; deVries, G; Meakin, C; Kalla, TP; **Younger, AS**: Outcome of transmetatarsal amputations in diabetics using antibiotic beads. *Foot Ankle Int.* **30**: 486-493, 2009. (Impact factor 1.101) SA
36. Krause, FG; Pohl, MJ; Penner, MJ; **Younger, AS**: Tibial nerve palsy associated with lateralizing calcaneal osteotomy: case reviews and technical tip. *Foot Ankle Int.* **30**: 258-261, 2009. (Impact factor 1.101) SA *Quoted as the "best paper I have read" by Chris Di Giovanni at the AOFAS winter meeting*
- \* 37. **Younger, AS**; Awwad, MA; Kalla, TP; de Vries, G: Risk factors for failure of transmetatarsal amputation in diabetic patients: a cohort study. *Foot Ankle Int.* **30**: 1177-1182, 2009. (Impact factor 1.101) SA. *This paper has changed the way diabetic feet have been managed in our clinic, and has resulted in the recognition of diabetes control as a major factor in outcomes of at risk feet*
38. Daniels, T; DiGiovanni, C; Lau, JT; Wing, K; **Younger, AS**: Prospective clinical pilot trial in a single cohort group of rhPDGF in foot arthrodeses. *Foot Ankle Int.* **31**: 473-479, 2010. (Impact factor 1.101) CA. *Principle investigator at the Vancouver site in this three site investigation. Assisted in the study design, enrollment of patients and wrote a preliminary manuscript.*
39. Krause, FG; Di Silvestro, M; Penner, MJ; Wing, KJ; Glazebrook, MA; Daniels, TR; Lau, JT; Stothers, K; **Younger, AS**: Inter- and intraobserver reliability of the COFAS end-stage ankle arthritis classification system. *Foot Ankle Int.* **31**: 103-108, 2010. (Impact factor 1.101) SA
40. Lau J, Alexander P, Penner M, **Younger AS**: Canadian Experience in Total Ankle Arthroplasty.

Seminars in Arthroplasty. Pages 295-302. 21(4) 2010. CA. *Assisted in the review and editing of the manuscript.*

41. Slobogean, GP; **Younger, AS**; Apostle, KL; Marra, CA; Wing, K; Penner, M; Daniels, T; Glazebrook, M: Preference-based quality of life of end-stage ankle arthritis treated with arthroplasty or arthrodesis. *Foot Ankle Int.* **31**: 563-566, 2010. (Impact factor 1.101) SA
- \*
42. Krause F. G; Windlof M; Bora, B; Penner, MJ; Wing, KJ; **Younger, AS**: Impact of complications in total ankle replacement and ankle arthrodesis analysed with a validated outcome measurement. *JBJS A* 93: 9, 830-839, 2011. (impact factor 3.27) SA. *This paper outlines the role of complications in outcome for foot and ankle surgery. It demonstrates the need to improve the description and scoring of complications in outcomes research.*
- \*
43. **Younger, AS**; Manzary, M; Wing, KJ; Stothers, K: Automated cuff occlusion pressure effect on quality of operative fields in foot and ankle surgery: a randomized prospective study. *Foot Ankle Int.* **32**: 239-243, 2011. (Impact factor 1.101) FA *In this study the benefit of using a new device to lower tourniquet pressure for surgery was demonstrated in a randomized prospective study. This supported the work of a local company manufacturing tourniquets whose director, Dr. J. McEwen, has received the order of Canada for his initiative and work.*
44. Haddad, SL; Myerson, MS; **Younger, AS**; Anderson, RB; Davis, WH; Manoli, A, 2nd: Symposium: Adult acquired flatfoot deformity. *Foot Ankle Int.* **32**: 95-111, 2011. (Impact factor 1.101) CA. *Wrote ¼ of the manuscript.*
45. Madeley, NJ; Wing, KJ; Topliss, C; Penner, MJ; Glazebrook, MA; **Younger, AS**: Responsiveness and validity of the SF-36, Ankle Osteoarthritis Scale, AOFAS Ankle Hindfoot Score, and Foot Function Index in end stage ankle arthritis. *Foot Ankle Int.* **33**: 57-63, 2012. (Impact factor 1.101) SA
46. Pakzad, H; Thevendran, G; Penner, M; Qian, H; **Younger, AS**: Predictors of Prolonged Length of Stay after Major Foot and Ankle Surgery. Accepted in *JBJS A* with revisions. (impact factor 3.27) SA. *Assisted in the study design. Started the database from which the information was derived. Assisted in data analysis and writing of the manuscript.*
47. Penner, MJ; Pakzad, H; **Younger, AS**; Wing, KJ: Mean BMI of overweight and obese patients does not decrease after successful ankle reconstruction. *J Bone Joint Surg Am.* **94**: e57, 2012. (impact factor 3.27) CA. *Assisted in study design. Started the database from which the information was derived and coordinated the final manuscript submission and assisted in the writing of the manuscript.*
- \*
48. Townshend, D; Di Silvestro, M; Krause, F; Penner, M; **Younger, AS**; Glazebrook, M; Wing, K: "Arthroscopic versus Open Ankle Arthrodesis: A Multicenter Prospective Clinical Outcome Study," number JBJS-D-11-01240. Accepted with revisions. . (impact factor 3.27) SA *This is the first prospective comparative paper demonstrating clear outcomes benefit for arthroscopic surgery in foot and ankle. Initiated the study and the study concept. Initiated the database from which the data was derived. Initiated arthroscopic ankle arthrodesis in Canada. Assisted in the data management.*

49. Krause, FG; Di Silvestro, M; Penner, MJ; Wing, KJ; Glazebrook, MA; Daniels, TR; Lau, JT; Younger, AS: The postoperative COFAS end-stage ankle arthritis classification system: interobserver and intraobserver reliability. *Foot Ankle Spec.* **5**: 31-36, 2012. SA
50. Thevendran, G; Younger, AS: Arthroscopic reduction and fibula nailing in high-risk diabetic ankle fractures: case reviews and technical tip. *Foot Ankle Spec.* **5**: 124-127, 2012. SA
51. Glazebrook, M; Daniels, T; Abidi, N; **Younger, AS**; Digiovanni, C: Role of Platelet Derived Growth Factor in Hindfoot Fusion. *Techniques in foot and ankle surgery.* **11(1)**:34-38, March 2012. CA. *Assisted in the writing of the manuscript and reviewed the concepts.*
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52. Di Giovanni, C; Lin, SS; Baumhauer, J; Daniels, T; **Younger, AS**; Glazebrook, M; Anderson, J; Anderson, R; Evangelista, P; Lynch, S: Recombinant Human Platelet-Derived Growth Factor –BB and Beta-Tricalcium Phosphate (rhPDGF-BB/Beta –TCP): A New Alternative to Promote Bone Regeneration. Accepted in *JBJS A* with revisions. (impact factor 3.27) CA *This is the largest prospective randomized trial performed in foot and ankle. It is the first major clinical paper outlining the use of platelet derived growth factor using recombinant gene technology. Was the principle investigator at the Vancouver site and assisted in the study design through attending 90% of the investigator meetings and conference calls. The study took 4 years from initiation to completion. Assisted in the final paper write up and submission.*
53. Sproule, J; Chin, T; Amin, A; Daniels, T; Younger, AS; Boyd, G; Glazebrook, M: Clinical an radiographic outcomes of the Mobility Total Ankle Arthroplasty System: Early Results from a Prospective Multi – Centre Study. Accepted *FAI* with revisions. (Impact factor 1.101) CA. *Supervised the Vancouver data. Assisted in the paper write up and submission.*
54. Theventhran, G; Younger, AS; Pinney, S: Current Concepts Review: Risk Factors for Nonunions in Foot and Ankle Arthrodeses. *Foot Ankle Int.* 2012 Nov; 33(11):1031-40.(Impact factor 1.101) CA
55. **Younger AS, Baumhauer J**: Polyvinyl alcohol hydrogel hemiarthroplasty of the great toe: Technique and indications. Accepted in *Techniques in foot and ankle surgery.* FA

(b) *Conference Proceedings (Abstracts)*

2. (See presentations)

(c) *Other*

*Letters to the Editor:*

1. **Younger, AS**; Tredwell SJ, Mackenzie WG: Letter with respect to the Assessment of Angulation of Long Bones. *J Bone Joint Surg Am* 77(3):488-498, 1995.

2. **Krause, F; Younger, AS; Weber, M:** Recombinant human BMP-2 and allograft compared with autogenous bone graft for reconstruction of diaphyseal tibial fractures with cortical defects. *J Bone Joint Surg Am.* **90:** 1168; author reply 1168-1169, 2008.

## 2. NON-REFEREED PUBLICATIONS

### (a) *Journals*

1. **Younger, AS:** The Biomechanical Forces in the Femur and their Role in the Design of Internal and External Fixators. *Transplantation / Implantation today*, September 1989. FA
2. **Younger, AS; Beauchamp RD:** Reconstruction of the Human Frame; The Crooked and Short Limbed Child. *British Columbia Medical Journal* 39(7): 363-368, 1997. FA
3. Spangehl, MJ; **Younger, AS; Masri, BA; Duncan, CP:** Diagnosis of infection following total hip arthroplasty. *Instr Course Lect.* **47:** 285-295, 1998. CA
4. **Younger, AS; Dunwoody, J; Duncan, CP:** Periprosthetic hip and knee fractures: the scope of the problem. *Instr Course Lect.* **47:** 251-256, 1998. FA
5. Spangehl, MJ; **Younger, AS; Masri, BA; Duncan, CP:** Diagnosis of Infection following Total Hip Arthroplasty. *Instr Course Lect* 47:285-295, 1998. FA
6. **Younger, AS:** The Case for Total Ankle Arthroplasty. *COA bulletin*, November 2002. FA
7. **Younger, AS:** Canadian Orthopaedic Association Bulletin, Point Counterpoint on Total Ankle Arthroplasty, December Issue 2002.
8. **Younger, AS:** Hip Hip Hooray Newsletter, Foot and Ankle Research: Code Blue, April 2003.
9. **Younger, AS:** Hip Hip Hooray Newsletter: Focus on patient, J. Humpherville. May 2004.
10. **Younger, AS:** Operative versus Non-operative Treatment of OS Calcis Fractures. *COA bulletin*, August 2003. FA
11. **Nelson, DR; Younger, AS:** Acute posttraumatic planovalgus foot deformity involving hindfoot ligamentous pathology. *Foot Ankle Clin.* **8:** 521-537, 2003. (impact factor 0.709) SA
12. **Younger, AS:** Diabetic Feet: Our Orthopaedic Responsibility. *COA bulletin*, August 2003. FA
13. **Younger, AS; Morrison, J; MacKenzie, WG:** Biomechanics of external fixation and limb lengthening. *Foot Ankle Clin.* **9:** 433-448, vii, 2004. (impact factor 0.709) FA
14. McEwen JA, *Inkpen K, Younger AS:* Thigh Tourniquet Safety – Limb Occlusion Pressure Measurement and a Wide Contoured Cuff Allow Lower Cuff Pressure. *Surgical Technologist.* CA



15. **Younger, AS:** Treatment of Hallux Valgus: Proximal Fusions. COA bulletin. August 2004. FA
16. **Younger, AS::** Vancouver Orthopaedic Foot and Ankle Program wins 3M Award: COA Bulletin. August 2004. FA
17. **Younger, AS:** Rheumatoid Arthritis / Focus on the Foot. Audio Digest Orthopaedics: Volume 27 issue 08, August 2004. FA
18. **Younger, AS:** Surgical Management of the Diabetic Neuropathic Forefoot Ulcer: Audio Digest Orthopaedics: Volume 27 Issue 09, September 2004. FA
19. Daniels, TR; and **Younger, AS:** Debate on the Ankle: Arthrodesis vs. Arthroplasty: Audio Digest Orthopaedics: Volume 27 Issue 09, September 2004. CA
20. **Younger, AS:** Treatment of End Stage Ankle Arthritis with Distraction Arthroplasty: COA Bulletin, April 2005. FA
21. **Younger, AS;** Goetz, T: Soft tissue coverage for posttraumatic reconstruction. Foot Ankle Clin. **11:** 217-235, xi, 2006. (impact factor 0.709) SA
22. **Younger, AS:** Joint preservation options for ankle arthritis, Audio Digest Orthopaedics: Volume 29, issue 11, November 2006. FA
23. **Younger, AS;** Lin, S; Daniels, T: What is the orthopaedic surgeons role in the management of diabetic foot disease?Audio Digest Orthopaedics: Volume 29, issue 10, October 2006. FA
24. **Younger, AS:** Trans Metatarsal Amputation: Audio Digest Orthopaedics: 28:10. October 2005. FA
25. **Younger, AS;** *Myerson, MS:* Reconstruction of the infected traumatized joint. Foot Ankle Clin. **11:** 203-215, xi, 2006. (impact factor 0.709) FA
26. Boyer, DS; **Younger, AS:** Anatomic reconstruction of the lateral ligament complex of the ankle using a gracilis autograft. Foot Ankle Clin. **11:** 585-595, 2006. (impact factor 0.709) SA
27. Ajis, A; **Younger, AS;** Maffulli, N: Anatomic repair for chronic lateral ankle instability. Foot Ankle Clin. **11:** 539-545, 2006 (impact factor 0.709) CA.
28. Calvert, E; **Younger, AS;** Penner, M: Post talus neck fracture reconstruction. Foot Ankle Clin. **12:** 137-151, 2007. (impact factor 0.709) SA.
29. **Younger, AS:** Health Care in Canada: Different, but not Necessarily Better. AAOS Now. August 2007. FA
30. **Younger, AS:** Report on the ABC fellowship. AAOS Now. July 2007. FA
31. **Younger AS:** Report on the ABC fellowship. COA Bulletin. July 2007. FA

32. **Younger, AS**; Penner, M; Wing, K: Mobile-bearing total ankle arthroplasty. Foot Ankle Clin. **13**: 495-508, ix-x, 2008. (impact factor 0.709) FA.
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34. Bohay, DR; Brage, ME; **Younger, AS**: Surgical treatment of the ankle and foot in patients with rheumatoid arthritis. Instr Course Lect. **58**: 595-616, 2009. CA.
35. **Younger AS**: Diagnosing forefoot pain: Hallux Valgus, arthritis, sesamoiditis, synovitis and stress fractures. Audio Digest Orthopaedics volume 32, issue 3 March 2009.
36. **Younger AS**: Management of severe nonreducible claw toe deformity. Audio Digest Orthopaedics volume 32, issue 3 March 2009.
37. Bohay D, Brage M, **Younger AS**: Rheumatoid Foot Surgery. American Academy of Orthopaedic Surgeons Instructional Course Lectures. Vol 48. 2009. Chapter 57.
38. **Younger AS**: Salvage of infected hindfoot fractures. Audio Digest Orthopaedics volume 32, issue 3 March 2009.
39. Chaudry A and **Younger AS**: COA bulletin: Osteotomies for the management of deformity after ankle fractures. July 2010. SA
40. **Younger AS**: Arthroscopic ankle fusion. Audio Digest in Orthopaedics. Volume 33, Issue 23 Dec 7 2010.
41. **Younger AS**: Ankle arthritis update. Audio digest in Orthopaedics. Volume 33, 23, Dec 7 2010.
42. Shah, KS; **Younger, AS**: Primary tibiototalcalcaneal arthrodesis. Foot Ankle Clin. **16**: 115-136, 2011. (impact factor 0.709) SA
43. **Younger AS**: Lateral column lengthening and midfoot fusion. Audio Digest in Orthopaedics. Volume 34, 16 August 2011.
44. **Younger AS**: Optimizing the patient for surgery. Audio Digest in Orthopaedics. Volume 34, 12, June 2011.
45. **Younger AS**
46. : Guest editor: The cavus foot. Foot and ankle clinics, March 17(1) ix 2012. FA
47. Thevendran, G; **Younger, AS**: Examination of the varus ankle, foot, and tibia. Foot Ankle Clin. **17**: 13-20, 2012. (impact factor 0.709) SA
48. Sproule, JA; Glazebrook, MA; **Younger, AS**: Varus hindfoot deformity after talar fracture. Foot Ankle Clin. **17**: 117-125, 2012. (impact factor 0.709) CA

(b) *Conference Proceedings*

See scientific presentations: 9 (e).

(c) *Other*

**Master's theses:**

1. **Younger AS, Morrison JB, Calvert T, Mackenzie WG:** Forces Measured During Femoral Lengthening in Children. Master's thesis. Simon Fraser University press, June 1990. FA
2. **Younger, AS; MacKenzie, WG; Morrison, JB; Gosline, JG; Hutchison, J:** The Biomechanical Properties of Distraction Callus Generated During Ilizarov Tibial Lengthening in Sheep. Master's thesis (ChM). Aberdeen University Press, awarded May 1997. FA.
- 3.

*Computer Programs:*

1. Younger EM, Mackenzie WG, **Younger AS:** The Ilizarov Patient Education Computer Program. Written on Hypercard for the Macintosh, supported by a grant from the BC Children's Hospital Telethon Fund for \$6,000.

*Web Sites:*

1. **Younger AS;** Kalla TP; Wing K; Penner M; Younger EM; Brown P. Patient education web site for B.C.'s foot and ankle clinic ([www.bcfootandankle.com](http://www.bcfootandankle.com)).
2. **Younger AS;** In conjunction with COA staff: COFAS web site on the COA web site: Physician and patient education on the Canadian Orthopaedic Foot and Ankle Society. (<http://www.canorth.org/en/patienteducation>)
3. **Younger AS;** Vumedi: Dissection of the ankle: 2<sup>nd</sup> most viewed foot and ankle presentation. Uploaded 2010. (<http://www.vumedi.com>)
4. **Younger AS;** Vumedi: Peroneal tendon sheath repair. Uploaded 2010. (<http://www.vumedi.com>)
5. **Younger AS;** Vumedi; Peroneal tendonitis: Debridement and osteotomy. Uploaded 2010. (<http://www.vumedi.com>)
6. Chaudhary A; **Younger AS;** Vumedi: Screw placement for ankle fusion. Uploaded 2010. (<http://www.vumedi.com>)
7. **Younger AS;** Vumedi: Webinar on ankle arthritis: Posted august 2012. (<http://www.vumedi.com>)
8. **Younger AS;** Orthopaedia: Anatomic dissection of the ankle. Uploaded 2011. (<http://www.orthopaedicsone.com>)
9. Chaudhary A; **Younger AS;** Orthopaedia; Screw placement for triple arthrodesis. Uploaded 2011. (<http://www.orthopaedicsone.com>)
10. Chaudhary A; **Younger AS;** Orthopaedia: Screw placement for navicular cuniform fusion. Uploaded 2011. (<http://www.orthopaedicsone.com>)

11. Chaudhary A; **Younger AS**; Orthopaedia; Screw placement for tarsometatarsal fusion (<http://www.orthopaedicsone.com>)
12. **Younger AS**; Orthopaedia: Ankle fracture complications: Salvaging a failed ORIF. August 2011. (<http://www.orthopaedicsone.com>)
13. **Younger AS**; Arthroscopy Association of North America – Web site: Arthroscopic Anatomy of the Ankle. Online video library. (<https://www.aana.org/VideoEducationLibrary>) Uploaded 9/27/2007
14. **Younger AS**; Arthroscopy Association of North America – Web site: indications for foot and ankle arthroscopy and associated procedures. Online video library (<https://www.aana.org/VideoEducationLibrary>) Uploaded 7/24/2007.
15. **Younger AS**; Foot innovate: Minimally invasive treatment of ankle fractures to improve outcomes. Uploaded July 2012.

#### Video techniques:

1. **Younger AS**; AAOS Video techniques in foot and ankle arthroscopy: Arthroscopic Triple arthrodesis. Feb 2012
2. **Younger AS**; AAOS video techniques in foot and ankle arthroscopy: Arthroscopic first MTP fusion. Feb 2012
3. **Younger AS**; AAOS Video techniques in foot and ankle arthroscopy: Anatomy dissection. Feb 2012
4. **Younger AS**; AAOS Video techniques in foot and ankle arthroscopy: Arthroscopic treatment of ankle fractures. Feb 2012

#### Exam questions:

4. Arthroscopy association of North America. Questions for the board examination preparation. Author of 7 questions.

### 3. **BOOKS**

(a) *Authored*

(b) *Edited*

(c) *Chapters*

1. Poss R, **Younger AS**: The Intertrochanteric Osteotomy in Master Techniques in Orthopaedic Surgery: The Hip. In Sledge CB and Thompson RC (eds): Masters Techniques of Surgery, Lippincott-Raven, 1998.
2. **Younger AS**, Masri BA, Duncan CP: Infected Total Hip Replacement. In Craig EV (ed.): Clinical Orthopaedics, Lippincott, Williams and Wilkins, Baltimore, Philadelphia, 1999. (Chapter 43, pp 549-561).
3. **Younger AS**, Sangeorzan B: Pain in the Ankle, Foot and Leg. p. 1614 to 1646. In Looser JD, Turk D, Chapman CR, Butler S: Bonica's Management of Pain, 3rd Edition, Lippincott Williams and Wilkins, Philadelphia 2001.

4. **Younger AS**, Carol T: Imaging of the foot and ankle, p71 to 132, .:in Surgery of the Foot and Ankle 8<sup>th</sup> ed. Couglin MJ, Mann RA, and Saltzman CL; Mosby Elsevier, Philadelphia, 2007.
5. Wing K, **Younger AS**: Physical Examination and Investigations in Sports Medicine. Eds. Jonston D and Pedowitz R. Lippincott Williams and Wilkins. Philadelphia PA. 2007.
6. **Younger AS**: Section Editor: Practical Orthopaedic Sports Medicine and Arthroscopy: Foot and Ankle Section. Eds. Jonston D and Pedowitz R. Lippincott Williams and Wilkins. Philadelphia PA. 2007.
7. **Younger AS**, Pohl M: Magnetic Resonance Imaging in Orthopaedic Sports Medicine. Foot and Ankle. Pedowitz R, Chung C, Resnick D: 2008. Springer.
8. Barske H, **Younger AS**: Anatomic Lateral Ligament Reconstruction. Craig's Operative techniques in Orthopaedic surgery. Section editor: Easley, M. Ed. Wiesel Lippincott, Williams and Wilkins, Philadelphia PA.
9. **Younger AS**: Outcomes of Lateral Ligament Reconstruction. Ed: Wright JG: Evidenced based Orthopaedics. Mosby Elsevier, Philadelphia, 2008.
10. **Younger AS**: Subtalar Joint Arthritis: Non Operative Treatment. In Arthritis and Arthroplasty: Mosby Elsevier, Philadelphia. Eds; Coetsee, JC. Nov 2009
11. **Younger AS**: Subtalar Joint Arthritis: Arthroscopy. In Arthritis and Arthroplasty: Mosby Elsevier, Philadelphia. Eds; Coetsee, JC. Nov 2009
12. **Younger AS**: Subtalar Joint Arthritis: Fusion. Arthroscopy. In Arthritis and Arthroplasty: Mosby Elsevier, Philadelphia. Eds; Coetsee, JC. Nov 2009.
13. **Younger AS**: Complex ankle and subtalar fusion. In: Advanced Arthroscopy. Arthroscopy Association of North America. Eds. Amendola and Stone. Pub Lippencott and Williams. 2011.
14. **Younger AS**, Townshend D: Evidence based treatment of the cavus foot. British Medical Journal publications.
15. Coe M, **Younger AS**, Wing K Ankle arthroscopy - basics. Chiddo, Bleuman E. Minimally Invasive Surgery.

#### 4. **PATENTS**

Ilizarov force distraction apparatus: Patent with Dr. W. G. Mackenzie at the Alfred I. Dupont institute.

In progress: Patent on instrumentation for midfoot arthritis.

Pending European (EP2363087A1) patent applications, "Fastening Systems for Prostheses" Published September 2011. Accepted as a US patent September 2012 US (US201121864A1) granted for 20 years.

#### 5. **SPECIAL COPYRIGHTS**

#### 6. **ARTISTIC WORKS, PERFORMANCES, DESIGNS**

7. **OTHER WORKS**

8. **WORK SUBMITTED (including publisher and date of submission)**

9. **WORK IN PROGRESS (including degree of completion)**

1. Biomechanical analysis of lateral ligament reconstruction.
2. Cost analysis of ankle replacement, fusion compared to hip and knee replacement.
3. The medial portal for ankle arthroscopy: An Anatomic and MRI study.
4. Combined total ankle arthroplasty and hindfoot fusion
9. Consolidation of COFAS database and publication of results of end stage ankle arthritis.
11. Augment II bone graft substitute for foot and ankle fusions: Pivotal study in progress.
16. Randomized prospective study of ankle fusion vs. replacement.
17. Development of a database for foot and ankle arthroscopy
18. Treatment of osteochondral defects of the talus with PDGF
19. Amplex for the treatment of hindfoot fusions
20. Treatment of diabetic ankle fractures with arthroscopic reduction, a fibular nail and PDGF
21. Use of a Hydrogel implant for end stage great toe arthritis: Contributing author in RCT.
22. Use of exogen to treat fusions in foot and ankle
23. Growth factors in bone and skin healing
24. Definition of adverse events after foot and ankle surgery