



FINAL PROGRAM

CSVS 44TH ANNUAL MEETING ON VASCULAR SURGERY



September 9-10, 2022

Sheraton Vancouver Wall Centre | Vancouver, BC

Program Chair: Dr. Ivica Vucemilo

Assistant Program Chair: Dr. Virginia Gunn

Local Arrangement Chair: Dr. Kirk Lawlor



EDUCATIONAL OBJECTIVES

CSVS 44th ANNUAL MEETING ON VASCULAR SURGERY

1. Participants will understand new alternatives of treatment that will help to manage peripheral vascular disease.
2. Participants will have a better understanding of aneurysm treatment through both endovascular and open repair.
3. Participants will be able to understand current basic science developments in Vascular Surgery.
4. Participants will have a better understanding of current trends and innovation in Vascular Surgery.

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by the Canadian Society for Vascular Surgery. You may claim a maximum of 10 hours (credits are automatically calculated).

AMA PRA Category 1 Credit™ designation statement.

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™. More information <http://www.ama-assn.org/go/internationalcme> is available through the AMA website.



VISIT OUR 2022 SPONSORS AND EXHIBITORS

The CSVS meeting has proven to be a great opportunity for a collegial interchange of ideas and product information between physicians and our corporate partners. The exhibit area is the exclusive room for meals and breaks. The exhibiting companies will provide you with the latest information on products in the field of vascular surgery. Information on our corporate partners is included in the CSVS mobile app. Please visit the exhibit hall (Grand Ballroom CD) to meet our sponsors. Exhibiting companies are our benefactors and major resource for our annual meetings and we encourage all our members and guest delegates to visit and support our corporate partners.

SHOW HOURS

Friday, September 9, 2022 from 0700-1700
Saturday, September 10, 2022 from 0700-1645

Networking breaks amongst exhibitors

Friday, September 9 | 7:00-7:45am, 9:15-10:00am, 12:00-1:30pm, 2:30-3:15pm
Saturday, September 10 | 7:00-8:00am, 10:15-10:45am, 12:45pm-1:30pm, 3:15-3:45pm

SOCIAL EVENTS

The CSVS will be holding two social events that will provide you with an opportunity to connect with fellow delegates in a more relaxed environment.

Wine & Cheese and Poster Viewing

Friday, September 9 from 4:00 to 5:00pm in the Grand Ballroom Foyer

CSVS Annual Dinner

Saturday, September 10 which will be held at the Vancouver Aquarium. Tickets are limited and must be purchased in advance (\$150 each).

MOBILE APP

The CSVS 2022 annual meeting mobile app allows you to access the full schedule, presenters, podium and poster presentations and be alerted of any changes to the program electronically.

www.eventmobi.com/CSVS2022

THURSDAY SEPTEMBER 8, 2022 | JEUDI LE 8 SEPTEMBRE 2022

12:00 pm to 6:00 pm

Room:

Grand Ballroom CD
(Exhibits)

Grand Ballroom Foyer
(Poster Boards)

Exhibitor Move In & Poster Board Set-Up

12:00 pm to 1:00 pm

Room: Port McNeill

CSVS Executive Committee Lunch *(closed)*

Chair: Dr. Luc Dubois

1:00 pm to 3:45 pm

Room: Port McNeill

CSVS Executive Committee Meeting *(closed)*

Chair: Dr. Luc Dubois

4:00 pm to 6:00 pm

Room: Port McNeill

Quality & Outcomes Committee Meeting

Chair: Dr. Yaasin Abdulrehman

4:00 pm to 9:00 pm

Room: Port Hardy

RCPSC Vascular Surgery Specialty Committee Meeting *(closed)*

Chair: Dr. Randy Guzman

6:00 pm to 8:00 pm

Room:

North Tower Lower Lobby

CSVS Registration Desk Opens

FRIDAY SEPTEMBER 9, 2022 | VENDREDI LE 9 SEPTEMBRE 2022

7:00 am

Room:

North Tower Lower Lobby

CSVS Registration Desk Opens

7:00 am to 7:45 am

Room:

Grand Ballroom CD

Grand Ballroom Foyer

Exhibits & Continental Breakfast

7:45 am to 8:00 am

Room:

Grand Ballroom AB

Welcome & Opening Remarks

President: Dr. Luc Dubois | Chair: Dr. Ivica Vucemilo

8:00 am to 9:00 am

Room:

Grand Ballroom AB

Session I: Peripheral Artery Disease 1

Moderators: Drs. Fadi Elias & Leonard Tse

Learning Objectives - At the end of this session, participants will be able to:

- Gather further knowledge on techniques for treatment of PVD
- Gain insight into long term outcomes of peripheral vascular disease
- Gain further knowledge in the treatment of iliac endofibrosis

8:00-8:08: RETROPUBIC FEMORAL-FEMORAL BYPASSES HAVE SUPERIOR OUTCOMES WHEN COMPARED TO GRAFTS TUNNELLED SUBCUTANEOUSLY – [Dominic Leblanc](#)

8:08-8:16: LONG-TERM OUTCOMES OF ENDOVASCULAR AND OPEN SURGICAL REVASCULARIZATION FOR PERIPHERAL ARTERY DISEASE: A POPULATION-BASED RETROSPECTIVE COHORT STUDY – [Jean Jacob-Brassard](#)

8:16-8:24: EXPLORING PROGNOSTIC IMPLICATIONS OF RACE AND ETHNICITY IN PATIENTS WITH PERIPHERAL ARTERIAL DISEASE – [Nayla Léveillé](#)

8:24-8:32: IMPACT OF HOSPITAL TRANSFER ON ACUTE LIMB ISCHEMIA OUTCOMES AND TIME TO REVASCULARIZATION – [Meghan McGillivray](#)

8:32-8:40: POST OPERATIVE QUALITY OF LIFE OUTCOMES IN HIGH PERFORMANCE ATHLETES WITH ILIAC ENDOFIBROSIS: A RETROSPECTIVE CASE SERIES – [Hannah Dreksler](#)

8:40-9:00: DISCUSSION PERIOD

9:00 am to 9:15 am

Room:

Grand Ballroom AB

Sponsored Rapid Fire Session * unaccredited session

Please refer to meeting app for details

9:15 am to 10:00 am

Room:

Grand Ballroom CD

Refreshment Break & Exhibits

10:00 am to 11:00 am

Room:

Grand Ballroom AB

Session II: Abdominal Aortic Aneurysm 1

Moderators: Drs. Gary Yang & Keith Baxter

Learning Objectives - At the end of this session, participants will be able to:

- Gain further knowledge in endovascular aneurysm repair
- Gain further knowledge in the outcomes of ruptured aortic aneurysm repair
- Gain further knowledge in the use of Artificial Intelligence in Endovascular aneurysm repair

10:00-10:08: ONE-TIME POPULATION-BASED SCREENING FOR ABDOMINAL AORTIC ANEURYSMS IN CANADA: A MODEL-BASED COST-UTILITY ANALYSIS – [Dominique Vervoort](#)

10:08-10:16: THE IMPACT OF RACE ON OUTCOMES FOLLOWING RUPTURED ABDOMINAL AORTIC ANEURYSM REPAIR – [Ben Li](#)

10:16-10:24: DEVELOPMENT OF AN ARTIFICIAL INTELLIGENCE TOOL FOR INTRAOPERATIVE GUIDANCE DURING ENDOVASCULAR ANEURYSM REPAIR – [Allen Li](#)

10:24-10:32: MORTALITY AND RISK FACTORS FOR ABDOMINAL AORTIC ANEURYSM RUPTURE AFTER EVAR (RARE) – [Melissa Jones](#)

10:32-10:40: ASSOCIATION BETWEEN BODY MASS INDEX AND OUTCOMES FOLLOWING ENDOVASCULAR ANEURYSM REPAIR – *Ahmed Naiem*

10:40-11:00: DISCUSSION PERIOD

11:00 am to 11:45 am

Room:

Grand Ballroom AB

CSVS Invited Guest Lecture I – Dr. Jason T. Lee, Stanford, California

Moderators: Drs. Virginia Gunn & Ivica Vucemilo

TREATMENT OPTIONS AND OUTCOMES FOR FALSE LUMEN FLOW AFTER TYPE B DISSECTION

Objectives – At the end of this session, participants will be able to:

- Describe options for false lumen obliteration
- Understand indications for type B AD therapy
- Compare outcomes for aortic remodeling based on intervention performed

11:45 am to 12:00 pm

Room:

Grand Ballroom AB

Sponsored Rapid Fire Session * unaccredited session

Please refer to meeting app for details.

12:00 pm to 1:30 pm

Room: Junior D

CSVS Annual General Meeting (*Members ONLY*)

12:00 pm to 1:30 pm

Room:

Grand Ballroom CD

Grand Ballroom Foyer

Lunch Break & Exhibits (*For those NOT attending AGM*)

12:00 pm to 1:30 pm

Room:

Grand Ballroom CD

Meet & Greet with CSVS Invited Guest Speaker Dr. Jason T. Lee

*This session is for residents, fellows and medical students

1:30 pm to 2:30 pm

Room:

Grand Ballroom AB

Session III: Thoracoabdominal Aortic Aneurysm Repair

Moderators: Drs. Miranda Witheford & Jason Bayne

Learning Objectives - At the end of this session, participants will be able to:

- Gain further knowledge in outcomes for fenestrated endovascular repair (FEVAR)
- Gain further insight into TEVAR for blunt aortic injuries
- Understand techniques to prevent spinal cord ischemia during complex aortic repair

1:30-1:38: OUTCOMES OF SPINAL DRAIN PLACEMENT FOR AORTIC SURGERY AT MCGILL – *Anna Kinio*

1:38-1:46: LONG-TERM OUTCOMES OF FENESTRATED ENDOVASCULAR ANEURYSM REPAIR IN OCTOGENARIANS: VQI DATABASE ANALYSIS – *Tiam Feridooni*

1:46-1:54: LONGER-TERM RATES OF SURVIVAL AND REINTERVENTION FOLLOWING THORACIC ENDOVASCULAR AORTIC REPAIR (TEVAR) FOR BLUNT AORTIC INJURY: A RETROSPECTIVE POPULATION-BASED COHORT STUDY FROM ONTARIO, CANADA – *Michael Yacob*

1:54-2:02: **EVALUATING BRANCH CHARACTERISTICS OF OFF-THE-SHELF T-BRANCH AND CUSTOM-MADE STENT GRAFTS IN ENDOVASCULAR REPAIR OF THORACOABDOMINAL AORTIC ANEURYSMS** – *Apoorva Bhandari*

2:02-2:10: **ADJUNCTIVE HYPERBARIC OXYGEN THERAPY FOR SPINAL CORD ISCHEMIA AFTER COMPLEX AORTIC REPAIR** – *Angela Lee*

2:10-2:30: **DISCUSSION PERIOD**

2:30 pm to 3:15 pm

Refreshment Break & Exhibits

Room:

Grand Ballroom CD

3:15 pm to 4:00 pm

Rapid 3 Minute Poster Presentations: A Brief Introduction

Room:

Grand Ballroom AB

Moderators: Drs. Virginia Gunn & Ivica Vucemilo

Learning Objectives - At the end of this session, participants will be able to:

- Gain further insight into vascular medico-legal cases in Canada
- Gain further insight into peri-operative medical management of the vascular patient
- Identify barriers to healthcare in high-risk populations

3:15-3:18: **CATHEYE: DESIGN, DEVELOPMENTS, AND EVALUATION OF A FORWARD-LOOKING ULTRASOUND CATHETER** – *Andrew Dueck*

3:18-3:21: **IDENTIFYING BARRIERS TO HEALTHCARE IN HIGH-RISK POPULATIONS** – *Tyrell Wees*

3:21-3:24: **LESSONS LEARNED FROM MEDICO-LEGAL CASES ASSOCIATED WITH VASCULAR SURGERY IN CANADA BETWEEN 2001 AND 2020** – *Abdalla Butt*

3:24-3:27: **THROMBOCYTOPENIA CORRELATES WITH THROMBUS BURDEN IN A MOUSE MODEL OF ACUTE DEEP VEIN THROMBOSIS** – *Alison Michels*

3:27-3:30: **CONTRAINDICATIONS TO NEURAXIAL ANESTHESIA IN PATIENTS UNDERGOING LOWER LIMB REVASCLARIZATION SURGERY** – *Michael Rosen*

3:30-3:33: **VARICOSE VEINS: A PHENOMENOLOGICAL STUDY TO EXPLORE PATIENT EXPECTATIONS AND REASONS FOR FRUSTRATION** – *Sophie Ilic*

3:33-3:36: **A SYSTEMATIC REVIEW AND META-ANALYSIS OF THE ROLE OF SEALANTS FOR ACHIEVING ANASTOMOTIC HEMOSTASIS IN VASCULAR SURGERY** – *Gar-Way Ma*

3:36-3:39: **THE PROGNOSTIC ROLE OF PRE-OPERATIVE NUTRITION STATUS IN PATIENTS UNDERGOING INTERVENTIONS FOR PERIPHERAL ARTERY DISEASE** – *Laura Drudi*

3:39-3:42: **EXPLORATION OF THE USE OF NON-VERBAL "TRACE" COMMUNICATION DURING VASCULAR SURGERY PROCEDURES** – *Erin Zlahtic*

3:42-3:45: **THE STATUS OF WOUND CARE RESEARCH IN CANADA** – *Michael Lee*

3:45-3:48: **THE IMPACT OF STRICT PERIOPERATIVE GLYCEMIC CONTROL ON SURGICAL SITE INFECTIONS FOLLOWING LOWER EXTREMITY VASCULAR SURGERY: A SYSTEMATIC REVIEW** – *Anna Kinio*

4:00 pm to 5:00 pm

CSVS Poster Session

Room:

Grand Ballroom Foyer

Wine & Cheese amongst the posters

SATURDAY SEPTEMBER 10, 2022 | SAMEDI LE 10 SEPTEMBRE 2022

7:00 am
Room: CSVS Registration Desk Opens
North Tower Lower Lobby

7:00 am to 8:00 am
Room: Exhibits & Continental Breakfast
Grand Ballroom CD
Grand Ballroom Foyer

7:00 am to 8:00 am
Room: Port Alberni
CSVS Research Interest Group Meeting
Chair: Dr. Heather Gill

8:00 am to 9:00 am
Room: Grand Ballroom AB
Session IV: Carotid
Moderators: Drs. Faysal Naji & Yaasin Abdulrehman

Learning Objectives - At the end of this session, participants will be able to:

- Gain further insight into the complications in carotid endarterectomy
- Gain knowledge into the treatment of carotid aneurysms
- Gain further knowledge in the use of machine learning in vascular surgery

8:00-8:08: MACHINE LEARNING CLASSIFICATION OF DOPPLER WAVEFORMS – *Brandon Van Asseldonk*

8:08-8:16: TIMING OF COMPLICATIONS FOLLOWING CAROTID ENDARTERECTOMY FOR SYMPTOMATIC AND ASYMPTOMATIC CAROTID ARTERY STENOSIS – *Angela Kim*

8:16-8:24: POST-OPERATIVE COMPLICATIONS AFTER CAROTID ENDARTERECTOMY FOR FREE FLOATING THROMBUS – *Sara Al-Adawi*

8:24-8:32: IMPACT OF USE OF IAC VS SRU CAROTID INTERPRETATION CRITERIA ON PATIENT MANAGEMENT – *Elizabeth Wooster*

8:32-8:40: COMPREHENSIVE NETWORK META-ANALYSIS OF OUTCOMES FOR THE TREATMENT OF EXTRACRANIAL CAROTID ARTERY ANEURYSMS – *Michael Lee*

8:40-9:00: DISCUSSION PERIOD

9:00 am to 9:15 am
Room: Grand Ballroom AB
Sponsored Rapid Fire Session * unaccredited session
Please refer to meeting app for details.

9:15 am to 10:15 am
Room: Grand Ballroom AB
Session V: Abdominal Aortic Aneurysm 2
Moderators: Drs. Nadra Ginting & Jonathan Misskey

Learning Objectives - At the end of this session, participants will be able to:

- Gain further knowledge in vascular tele-medicine
- Gain further knowledge in the outcomes of ruptured aortic aneurysm repair
- Gain further knowledge in the management splenic artery aneurysms

9:15-9:23: **USE OF TELEMEDICINE AND VIRTUAL CONSULTATIONS FOR PATIENT CARE IN THE COVID-19 ERA AND BEYOND FOR VASCULAR SURGERY PRACTICE: A SYSTEMATIC REVIEW AND META-ANALYSIS** – *Arshia Javidan*

9:23-9:31: **URINARY CYSTATIN C HAS PROGNOSTIC VALUE IN PERIPHERAL ARTERY DISEASE** – *Ben Li*

9:31-9:39: **THE EFFECT OF AFTER HOURS PRESENTATION IN RUPTURED ABDOMINAL AORTIC ANEURYSM** – *Samuel Jessula*

9:39-9:47: **TRENDS IN INCIDENCE OF ABDOMINAL AORTIC ANEURYSM RUPTURE, REPAIR AND MORTALITY: 2005-2015** – *Samuel Jessula*

9:47-9:55: **OPEN AND ENDOVASCULAR REPAIR FOR SPLENIC ARTERY ANEURYSM: 20 YEAR EXPERIENCE AT TORONTO GENERAL HOSPITAL** – *Sultan Khoja*

9:55-10:15: **DISCUSSION PERIOD**

10:15 am to 10:45 am

Refreshment Break & Exhibits

Room:

Grand Ballroom CD

10:45 am to 11:45 am

CSVS Research Session

Room:

Grand Ballroom AB

Moderator: *Dr. Heather Gill*

10:45-10:50: **INTRODUCTION TO RESEARCH SESSION**

CSVS 2022 RESIDENT RESEARCH AWARD - Rapid Fire Presentations

**This award is supported by W. L. Gore & Associates, Inc*

2 Finalists to present to judging panel (10-minute presentation, 5-minute Q&A)

10:50-11:05: **USING MACHINE LEARNING TO PREDICT OUTCOMES FOLLOWING MAJOR VASCULAR SURGERY** – *Ben Li*

11:05-11:20: **OPTIMAL MANAGEMENT OF INFRAINGUINAL CHRONIC LIMB THREATENING ISCHEMIA IN PATIENTS LACKING CONSENSUS ON INITIAL REVASCULARIZATION STRATEGY** – *Angela Kim*

11:05-11:15: **PRESENTATION OF 2022 AWARD WINNERS**

- CSVS Clinical Investigator Award (presented by Dr. Heather Gill)
- CSVS National Student Research Awards (presented by Dr. Heather Gill)
- John L. Provan Education Award (presented by Dr. Gregory Harding)

11:15-11:45: **RESEARCH UPDATE** (presented by Dr. Heather Gill)

11:45 am to 12:00 pm

Sponsored Rapid Fire Session * unaccredited session

Room:

Grand Ballroom AB

Please refer to meeting app for details.

12:00 am to 12:45 pm

Room:

Grand Ballroom AB

CSVS Invited Guest Lecture II – Dr. Jason T. Lee, Stanford, California

Moderators: Drs. Virginia Gunn & Ivica Vucemilo

VASCULAR COMPRESSION DISORDERS IN ATHLETES

Objectives – At the end of this session, participants will be able to:

- Describe treatment options and outcomes in thoracic outlet syndrome
- Understand types and treatment options for popliteal entrapment syndrome
- Compare outcomes of surgical treatment for iliac endofibrosis

12:45 pm to 1:30 pm

Room:

Grand Ballroom CD

Grand Ballroom Foyer

Lunch Break & Exhibits

1:30 pm to 2:15 pm

Room:

Grand Ballroom AB

Presidential Address

Dr. Luc Dubois, President & Introduction of Dr. John Harlock, Incoming President

2:15 pm to 3:15 pm

Room:

Grand Ballroom AB

Session VI: Peripheral Artery Disease 2

Moderators: Drs. Virginia Gunn & Gregory Harding

Learning Objectives - At the end of this session, participants will be able to:

- Understand the impact of obesity in peripheral arterial disease
- Gain further knowledge in anesthetic techniques in vascular surgery
- Understand the risk of repeat intervention following lower extremity angioplasty

2:15-2:23: THE IMPACT OF OBESITY IN PERIPHERAL ARTERIAL DISEASE PATIENTS UNDERGOING REVASCULARIZATION: A SYSTEMATIC REVIEW AND META-ANALYSIS –
Joanne Abi-Jaoude

2:23-2:31: SEVERE INFRAMALLEOLAR DISEASE IS AN INDEPENDENT PREDICTOR OF ADVERSE LIMB OUTCOMES AFTER REVASCULARIZATION IN PATIENTS WITH CHRONIC LIMB-THREATENING ISCHEMIA –
Ahmed Naiem

2:31-2:39: HOSPITAL-, ANESTHESIOLOGIST-, SURGEON- AND PATIENT-LEVEL VARIATION IN NEURAXIAL ANESTHESIA USE FOR LOWER LIMB REVASCULARIZATION SURGERY: A POPULATION-BASED CROSS-SECTIONAL STUDY –
Rahul Mor

2:39-2:47: PATCHLESS PROXIMAL PROFUNDOPLASTY AND COMMON FEMORAL ENDARTERECTOMY –
Leonard Tse

2:47-2:55: A PILOT STUDY OF CLINICAL RISK PREDICTION OF 90-DAY REINTERVENTION FOLLOWING LOWER EXTREMITY ANGIOPLASTY –
Kennedy Ayoo

2:55-3:15: DISCUSSION PERIOD

3:15 pm to 3:45 pm

Room:

Grand Ballroom CD

Refreshment Break & Exhibits

3:45 pm to 4:45 pm

Room:

Grand Ballroom AB

Session VII: Vascular Medicine & Hemodialysis

Moderators: Drs. Beverly Chan & Ted Rapanos

Learning Objectives - At the end of this session, participants will be able to:

- Understand fragility in the vascular surgery patient
- Gain further insight into risks for prolonged opioid use following vascular surgery
- Gain insight into the safety and efficacy of secondary procedures in hemodialysis access

3:45-3:53: ASSOCIATION BETWEEN COMPLICATIONS AFTER VASCULAR SURGERY AND PROLONGED POSTOPERATIVE OPIOID USE – [Luc Dubois](#)

3:53-4:01: EFFICACY AND SAFETY OF SECONDARY PROCEDURES FOR MAINTAINING ARTERIOVENOUS HEMODIALYSIS ACCESS: A SYSTEMATIC REVIEW AND BAYESIAN NETWORK META-ANALYSIS – [Mark Rockley](#)

4:01-4:09: ASSESSMENT OF THE REVERSE FRAGILITY INDEX IN VASCULAR SURGERY RANDOMIZED CONTROLLED TRIALS WITH STATISTICALLY NON-SIGNIFICANT PRIMARY OUTCOMES – [Allen Li](#)

4:09-4:17: THE EMOTIONAL IMPACT AND COPING MECHANISMS FOLLOWING ADVERSE PATIENT EVENTS AMONG CANADIAN VASCULAR SURGEONS AND TRAINEES – [Sally Choi](#)

4:17-4:25: YOUTUBE AS A SOURCE OF PATIENT AND TRAINEE EDUCATION IN VASCULAR SURGERY – [Arshia Javidan](#)

4:25-4:45: DISCUSSION PERIOD

4:45 pm

Room:

Grand Ballroom AB

Meeting Adjournment

7:00 pm

Room: Top Floor

Tropics Gallery

Pacific Canada Gallery

BC Coast Gallery

CSVS 2022 Annual Dinner at the Vancouver Aquarium

*Advance registration and dinner ticket required.

**Coach transportation provided to and from venue.

SEE YOU NEXT YEAR IN QUÉBEC CITY!

CSVS Annual Meeting

September 8-9, 2023

Québec City Convention Centre & Hilton Québec

Québec City, QC

The CSVS gratefully acknowledges the support of our scientific program:



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CSVS RESIDENT RESEARCH AWARD

