Canadian Society for Vascular Surgery
Société canadienne de chirurgie vasculaire

40th Annual Meeting on Vascular Surgery

MONTRÉAL, QUÉBEC
September 28-29, 2018
Le Westin Montreal

Final program – programme Final

Welcome to Montreal!

It is our pleasure to welcome you to the Canadian Society for Vascular Surgery's 40th Annual Meeting in charming old Montreal. The meeting promises to be an exceptional event, featuring timely, insightful, and relevant scientific sessions. Our invited guest speaker, Dr. Alan Lumsden, the Walter W. Fondren III Chair, Medical Director of the Houston Methodist DeBakey Heart & Vascular Center and Chair of the Department of Cardiovascular Surgery at Houston Methodist Hospital, will be giving two talks during the meeting and many are looking forward to his presentations.

As the primary Canadian gathering for the vascular surgery community, this meeting provides a forum for continuing medical education for vascular surgeons and others interested in the investigation and treatment of patients with vascular disease.

An exciting two days are in store giving you an opportunity to stay abreast of vascular developments, network with your peers, socialize and increase your CPD hours.

Have a great meeting!

Dr. Kent MacKenzie
CSVS President

Dr. Joel Gagnon
2018 Program Chair

CSVS EXECUTIVE COMMITTEE

Dr. Kent MacKenzie, President,
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Dr. Karim Alibhai, Member at Large (Web)
Dr. Varun Kapila, Assistant Webmaster

INTERACTIVE MEETING

Delegates will be actively participating in the meeting by using touchpads to provide feedback via the Audience Response System that will be used during the plenary sessions and VSEP Jeopardy.

INVITED GUEST SPEAKER

The CSVS is pleased to present Dr. Alan Lumsden, the Walter W. Fondren III Chair, Medical Director of the Houston Methodist DeBakey Heart & Vascular Center and Chair of the Department of Cardiovascular Surgery at Houston Methodist Hospital, as the 2018 invited guest speaker. Dr. Lumsden is greatly looking forward to speaking in Montreal as well as interacting with all attendees and especially residents, fellows and students.

WHY YOU SHOULD ATTEND!

As the premier meeting of the Canadian Society for Vascular Surgery, this conference provides several unique and engaging educational opportunities for the participants:

- Network with colleagues from across Canada
- Translate scientific discoveries into your practice
- Raise questions, debate the issues, plan follow-up studies, and discuss results;
- Discuss your own research and observation
- Meet with poster presenters to learn about their research objectives; and
- Visit a number of exhibit booths featuring products specifically designed for the treatment of vascular diseases.

TARGET AUDIENCE

The CSVS Annual Scientific meeting is intended for clinicians, researchers, trainees/students, and allied health professionals involved in research, treatment and management of vascular diseases.

CSVS VISION

To Lead Vascular Care in Canada

CSVS MISSION

The Canadian Society for Vascular Surgery is dedicated to excellence in the promotion of vascular health for Canadians through education, research, collaboration and advocacy

ANNUAL GENERAL MEETING

For CSVS members only
Friday, September 28th - 12:00-13:00
Ramezay - 8th Floor

ACCREDITATION - (Section 1)

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, approved by the Canadian Society for Vascular Surgery. ***The maximal CME credit is 13.5 hours.***

AMA PRA Category 1 Credit™

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™. Information on the process to convert Royal College MOC credit to AMA credit can be found at:
www.ama-assn.org/go/internationalcme.

CERTIFICATE OF ATTENDANCE

All participating delegates will receive an email containing their "Certificate of Attendance" following the meeting.

PROGRAM CHANGES AND CANCELLATIONS

CSVS reserves the right to substitute faculty or to cancel or reschedule sessions because of unforeseen circumstances.

MOBILE APP

The CSVS 2018 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.

Installing The App:

1. Visit eventmobi.com/app and click the appropriate app store logo for your device.
2. Launch the app and enter event code: *CSVS2018*
OR click on the link to open the app in a webpage
https://eventmobi.com/csvs2018

DISCLOSURE

Faculty and Moderator Disclosure: Current CME guidelines state that participants should be aware of any affiliation or financial interest that could affect the speaker's presentation(s). Faculty and moderators have completed conflict of interest declarations and those potential conflicts will be announced at the beginning of each session.

The intent of this disclosure requirement is for a speaker to declare the conflict/relationship, in advance, to the audience. It is intended that any conflict be openly identified so that with full disclosure of the facts, attendees may form their own judgments about the presentation.

In addition, all members of the annual scientific program committee have also completed their declaration and have announced at each teleconference or meeting any financial interest in commercial organizations that may have a direct or indirect interest in the subject matter of his/her presentation. A "financial interest" may include, but is not limited to, being a direct shareholder in the organization; being on retainer with the organization; or having research or honoraria paid by the organization. An "affiliation" may be holding a position on an advisory committee or some other role of benefit to a sponsoring organization.

DISCLAIMER

The material presented at this meeting represents the opinion of the speakers and not the views of the CSVS. Attendees participating in this medical education program do so with full knowledge that they waive any claim they may have against the CSVS for reliance on any information presented during these educational activities. The CSVS does not guarantee, warrant or endorse any commercial products or services.

VISIT OUR 2018 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 (Montreal C/D - 11th Floor) 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 sponsors.

Exhibit dates and times: Friday, September 28th
7:00-7:45am, 9:30-10:00am, 12:00– 1:00pm, 2:30-3:00pm

Saturday, September 29th
7:00-8:00am, 10:15-10:45am, 12:30am – 1:45pm, 3:00-3:30pm

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 in the Foyer Montreal on Friday, September 28th from 17:00 to 18:00
- CSVS Annual Dinner on Saturday September 29th which will be held at the Hotel Place D'Armes which is located in Old Montreal and is a 5 minute walk from the Westin Montreal Hotel. Tickets are limited and must be purchased in advance ($150 each).

Follow us on Twitter!

Use **#CSVS2018** to tweet & share what you're learning in Montreal.

Educational Objectives of the CSVS 40th Annual Meeting

1. Participants will understand new alternatives of treatment that will help to manage peripheral vascular disease

2. Participants will be able to review and discuss non-operative and surgical approach regarding thoracic aortic pathologies.

3. Participants will be able to identify and clarify proper screening, medical therapy and timing regarding extra-cranial cerebrovascular disease.

4. Participants will explore and learn on novel current endovascular aneurysm repair techniques

5. Participants will have a better understanding of aneurysm surveillance and also be able to identify factors that impact post-operative outcome following open aortic aneurysm repair.

6. Participants will be able identify and discuss novel treatment option that are available for venous insufficiency management.

7. Participants will be able to identify their own knowledge gaps by participating in VESP Jeopardy.

8. Participants will have a better understanding of the new learning technique for vascular surgery education.

The program will provide scientific or clinical presentations by the general membership and will provide the opportunity for the participant to discuss and contribute opinions and evaluations. Authors of accepted abstracts are encouraged to submit manuscripts for peer-reviewed publication.

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 Can*ada, approved by the Canadian Society for Vascular Surgery.* ***The maximal CME credit is 13.5 hours.***

AMA PRA Category 1 Credit™ - *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™. Information on the process to convert Royal College MOC credit to AMA credit can be found at: www.ama-assn.org/go/internationalcme*

THURSDAY, SEPTEMBER 27, 2018

12:00-18:00	**EXHIBITS MOVE IN AND SET UP**	*Montreal C/D 11th Floor*
12:30-16:30	**CSVS EXECUTIVE MEETING *(closed)***	*Ramezay (8th Floor)*
16:45-20:00	**CVQI MEETING**	*Ramezay (8th Floor)*
16:30-21:00	**RCPSC SPECIALTY COMMITTEE ON VASCULAR SURGERY MEETING (*closed)***	*St. Paul(8th Floor)*
18:00-20:00	**REGISTRATION OPENS**	*Foyer Montreal 11th Floor*

FRIDAY, SEPTEMBER 28, 2018

07:00-17:00	**REGISTRATION OPENS**	*Foyer Montreal 11th Floor*
07:00-07:45	**BREAKFAST & EXHIBITS**	*Montreal C/D 11th Floor*
07:00-07:30	**The BEST-CLI - Update**	*Montreal A/B 11th Floor*

Presenter: Dr. Matthew Menard

07:30-07:45	**Update on CSVS AAA Screening Guidelines**	*Montreal A/B 11th Floor*

Presenter: Dr. Varun Kapila

07:45-08:00	**WELCOME & OPENING REMARKS**	*Montreal A/B 11th Floor*

President: Dr. Kent MacKenzie
Program Chair: Dr. Joel Gagnon
Secretary: Dr. John Harlock

08:00-09:30	**PAPER SESSION I – TREATMENT OF PVD**	*Montreal A/B 11th Floor*

Moderator: Dr. Joel Gagnon

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

1. Gather further knowledge for alternative treatment of bypass stenosis
2. Explore different adjuvant medical therapy to improve result of post angioplasty
3. Gain an understanding of cardiac markers status in association with critical ischemia

08:00-08:15 Rivaroxaban plus aspirin versus standard dual antiplatelet therapy following angioplasty for lower extremity peripheral arterial disease in patients with critical limb ischemia and claudication (RIVAL-PAD) - 12 month results of a randomized trial - Presenter: P. Jetty

08:15-08:30 Everolimus drug-eluting stents are associated with improved outcomes for the treatment of infrainguinal bypass graft stenosis Presenter: C. Hicks

08:30-08:45 Frailty assessment in older adults undergoing interventions for peripheral arterial disease - Presenter: L. Drudi

08:45-09:00 Geographic variation in the rates of amputations across Ontario: A blueprint for improvement - Presenter: M. Hussain

09:00-09:15 Status of cardiac markers in patients with peripheral arterial disease and critical limb ischemia - Presenter: S. Jain

09:15-09:30 Role of drug-coated balloons in femoro-poplitheal disease in TASC types C&D patients - Presenter: J. Dobson

09:30-10:00 **REFRESHMENT BREAK & EXHIBITS** *Montreal C/D 11th Floor*

10:00-11:00 **PAPER SESSION II – TREATMENT OF THORACIC AORTA** *Montreal A/B 11th Floor*

Moderator: Dr. Cherie Abraham

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

1 .Gain a further understanding of common complications after BEVAR

2. Reinforce knowledge on non-operative management for aortic blunt injury

10:00-10:15 Endovascular treatment of thoraco abdominal aortic aneurysms using branched and fenestrated grafts: Single-centre experience - Presenter: R. Rocha

10:15-10:30 In-situ laser fenestration for arch branch revascularization during emergent thoracic endovascular aortic repair: Effective and durable - Presenter: J. Panneton

10:30-10:45 Knowing when not to intervene: A systematic review of non-operative management in blunt thoracic aortic injury - Presenter: J. Jacob-Brassard

10:45-11:00 The influence of surgical technique on device rotation and fenestration alignment in advanced endovascular aneurysm repair - Presenter: S. Crawford

11:00-11:30 **Invited Guest Lecture I - The Other Guy's Toolkit - *Alan B. Lumsden, M.D.,***

Walter W. Fondren III Chair, Medical Director of the Houston Methodist DeBakey Heart & Vascular Center and chair of the department of Cardiovascular Surgery at Houston Methodist Hospital.

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

1. Participants will be able to understand why inter specialty and interindustry collaborations can result in unique solutions to cardiovascular problems, using tools often not visible to vascular surgeons.

2. Participants will be able to identify which specialties have " like" but fundamentally "different" approaches to solving problems with the vascular community.

12:00-13:00 **CSVS ANNUAL GENERAL MEETING (Members Only)** *Ramezay 8th Floor*

12:00-13:00 **LUNCH & EXHIBITS (for those not attending AGM)** *Montreal C/D 11th Floor*

12:00-13:00 **Residents/Trainees informal meet & greet with Invited Guest Speaker**

Foyer Montreal/Montreal C/D 11th Floor

13:00-14:15 **PAPER SESSION III -TREATMENT OF CAROTID DISEASE** *Montreal A/B 11th Floor*

Moderator: Dr. Heather Gill

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

1. Determine and update knowledge regarding proper timing for carotid endarterectomy

2. Gain knowledge on proper follow up after CEA

3. Further appreciate and understand the importance of medical management in the post-operative period to improve outcome

13:00-13:15 Quality improvements in timing and delivery of carotid endarterectomies at the Ottawa Hospital: Is the pendulum swinging too far? - Presenter: S. Strauss

13:15-13:30 Transforming practice: Using a systems-based, multidisciplinary approach to achieve a 600% reduction in early symptomatic carotid revascularization referral and treatment - Presenter: K. Howe

13:30-13:45 Ultrasound surveillance following carotid endarterectomy: Prudent or Pointless? Presenter: S. Strauss

13:45-14:00 Impact of statins on clinical outcomes after carotid endarterectomy and stenting: A population-based cohort study - Presenter: M. Hussain

14:00-14:15 Carotid endarterectomy after systemic thrombolysis in stroke patients: a retrospective comparative analysis - Presenter: W. Fortin

14:15-14:30 **Update on New TASC Classification -** Presenter: Dr. Prasad Jetty *Montreal A/B 11th Floor*

14:30-15:00 **REFRESHMENT BREAK & EXHIBITS** *Montreal C/D 11th Floor*

15:00-16:00 **VSEP JEOPARDY** *Montreal A/B 11th Floor*

Moderator: Dr. George Oreopoulos

*Objective: At the end of this session, participants will be able to elucidate their strengths and weaknesses in knowledge of a variety of vascular topics***.**

16:00-16:45 **RAPID 3 MINUTE POSTER PRESENTATIONS** (Brief introduction) - *Montreal A/B 11th Floor*

Moderator: Dr. Kirk Lawlor

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

1. Describe issues related to and affecting Vascular Surgery

2. Understand advances in various topics in Vascular Surgery

Posters

- Arteriovenous fistula remains the best hemodialysis access choice for some elderly patients - Presenter: M. C. Pastor
- Composite self-expanding bioresorbable stents with reinforced compression performance: a computational and experimental investigation - Presenter: F. Zhao
- Lower limb amputations in patients with diabetes and peripheral artery disease: A time-series analysis of trends 2005-2016 - Presenter: M. Hussain
- Identification of circulating micro-RNA profile in patients with peripheral artery disease and critical limb ischemia - Presenter: S. Jain
- Postoperative delirium: the impact of pre-operative cognitive impairment, type of vascular procedure and cost implications - Presenter: R. Styra
- Deformation characteristics of venous stents: A comparative assessment - Presenter: M. Hejazi
- Prolonged versus brief balloon inflation for arterial angioplasty - Presenter: M. Rockley
- AAA anatomic severity grading score: Identifying anatomic attributes that best predict EVAR outcomes - Presenter: M Lin
- In-Situ tissue engineering oriented PLA/PCL composite vascular graft (cVG)-design and characterization - Presenter: L. Wang
- The contribution of 30-day readmissions to the soaring costs of care for the diabetic foot - Presenter: C. Hicks
- Prospective evaluation of postoperative urinary retention in EVAR patients: an interim

analysis of a novel Vascular Quality Initiative project - Presenter: R. McClarty

- The use of growth factors for the treatment of chronic venous leg ulcers: a systematic review and meta-analysis - Presenter: S. Philips
- Ankle-brachial index measurement with an automated oscillometric blood pressure cuff: bringing the ABI back to the bedside - Presenter: L. Dufresne
- The feasibility and accuracy of automated blood pressure cuff ankle-brachial indices measurements in outpatients' screening - Presenter: M. Al-Hamzah
- Age and sex stratified trends in elective and ruptured abdominal aortic aneurysm repair from 2003 to 2016 - Presenter: K. Salata
- Carotid endarterectomy in the elderly: The McGill Experience - Presenter: R.J. Doonan
- Optimization of the in situ laser fenestration of stent-graft: in vitro studies Presenter: Z. Zhang
- A comparison of duplex findings two years following cyanoacrylate embolization versus endovenous laser ablation of the greater saphenous vein - Presenter: B McGuinness
- In vitro fatigue evaluation of chimney EVAR - A case study - Presenter: R. Zhang
- Acute and chronic renal dysfunction post open and endovascular abdominal aortic aneurysm repair - Presenter: B. Van Asseldonk

17:00-18:00 **CSVS POSTER SESSION - WINE & CHEESE AMONGST THE POSTERS**
Foyer Montreal 11th Floor

SATURDAY, SEPTEMBER 29, 2018

07:00	**REGISTRATION OPENS**	*Foyer Montreal 11th Floor*
07:00-08:00	**BREAKFAST & EXHIBITS**	*Montreal C/D 11th Floor*
07:00-08:00	**RESEARCH COMMITTEE MEETING**	*Ramezay 8th Floor*
07:00-08:00	**EDUCATION COMMITTEE MEETING**	*St. Paul 8th Floor*
08:00-09:00	**PLENARY SESSION IV – ANEURYSMAL DISEASE I**	*Montreal A/B 11th Floor*

Moderator: Dr. George Oreopoulos
Objectives- At the end of this session participants will be able to:
1. Explore other available endografts to exclude AAA
2. Review the economics of percutaneous EVAR

08:00-08:15 Early experience with the INCRAFT device - Presenter: R. J. Doonan
08:15-08:30 A prospective cohort study of a same day discharge percutaneous endovascular aneurysm repair pathway - Presenter: M. Sabalbal
08:30-08:45 Percutaneous approach to endovascular aortic aneurysm repair: a cost-minimization study - Presenter: G. Yang
08:45-09:00 Long-term survival after EVAR and open repair in patients with anatomy outside EVAR IFU criteria - Presenter: P. Charbonneau

09:00-10:15 **PAPER SESSION V –ANEURYSM DISEASE II** - *Montreal A/B 11th Floor*
Moderator: Dr. Gerrit Winkelaar
Learning Objectives - At the end of this session participants will be able to:

1. Gain further understanding on necessary surveillance for small aneurysms in older populations
2. Review different treatment outcomes in octogenarians
3. Review alternative approaches to relieve pain after open AAA repair

09:00-09:15 The futility of surveillance for old and small aneurysms - Presenter: M. Rockley
09:15-09:30 Current risk estimation models underestimate significance of perioperative factors in predicating mortality following elective abdominal aortic surgeries - Presenter: T. Mai
09:30-09:45 Long-term outcomes comparing endovascular and open abdominal aortic aneurysm repair in octogenerians - Presenter: O. Scallan
09:45-10:00 Impact of declining institutional memory on adverse events following open aneurysm repair - Presenter: A. Kinio
10:00-10:15 Surgically positioned paravertebral catheters and post-operative analgesia after open abdominal aortic aneurysm repair - Presenter: S. Jessula

10:15-10:45 **REFRESHMENT BREAK & EXHIBITS** *Montreal C/D 11th Floor*

10:45-11:00 **RESEARCH SESSION** *Montreal A/B 11th Floor*
Moderator: Dr. Luc Dubois

Presentation of 2018 Awards
Cook & Gore Research Awards Presented by Dr. Luc Dubois
John L. Provan Education Award Presented by Dr. George Oreopoulos

2017 Cook, Gore, Provan award winner project updates

11:00-11:30 **CSVS Bayer Resident Research Award-Rapid Fire Presentations** *Montreal A/B 11th Floor*

11:30-12:00 **CSVS Invited Guest Lecture II - Trans Cranial Doppler - Ultimate Monitor for Arch Interventions** *Montreal A/B 11th Floor*
Alan B. Lumsden, M.D., Walter W. Fondren III Chair, Medical Director of the Houston Methodist DeBakey Heart & Vascular Center and chair of the department of Cardiovascular Surgery at Houston Methodist Hospital.
Learning Objectives - At the end of this session participants will be able to:
1. Participants will learn the basic principles by which TCD detects intracerebral flow and embolization
2. Using a series of case examples we will demonstrate and improve the understanding of how real time feedback on intracranial flow and embolization

12:00-12:30 **PRESIDENTIAL ADDRESS -** Dr. Kent MacKenzie *Montreal A/B 11th floor*
Introduction by Dr. April Boyd

12:30-13:45 **LUNCH & EXHIBITS** *Montreal C/D 11th floor*

13:45-15:00 **PAPER SESSION VI- TREATMENT OF VENOUS DISEASE** *Montreal A/B 11th floor*
Moderator: Dr. Luc Dubois
Objectives - At the end of this session participants will be able to:
1. Explore new treatment options for incompetent perforator veins
2. Review different endovenous treatments
3. Gain further understanding and knowledge regarding chronic IVC filter removal

13:45-14:00 Ultrasound Guided Cyanoacrylate Injection for the Treatment of Incompetent Perforator Veins - Presenter: A. Mordhorst

14:00-14:15 Non-Tumescent versus Tumescent based Endovenous Therapies for Patients with Saphenofemoral Reflux and Varicose Veins - Presenter: J. Harlock

14:15-14:30 IVC Filter Removal after Extended Implantation Periods - Presenter: G. Roche-Nagle

14:30-14:45 Are Demographics Affecting Vascular Surgery Volumes? A Province Wide Perspective - Presenter: J. Dooner

14:45-15:00 Improving Critical Discharge Medication Adherence: A Vascular Quality Improvement (VQI) Initiative - Presenter: M. A. Assmus

15:00-15:30 **REFRESHMENT BREAK & EXHIBITS** *Montreal C/D 11th Floor*

15:30-16:45 **PAPER SESSION VII - TEACHING AND GENERAL TOPICS** *Montreal A/B- 11th Floor*

Moderator: Dr. John Harlock

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

1. Help appreciate the importance of vascular involvement in Head and Neck Cancer

2. Review the importance of pre-operative anemia

3. Gather further knowledge on opioid use following vascular surgery

15:30-15:45 Engineering the Educational Experience (E3): Creating a Genuine Clinical Experience for Trainee Learning and Assessment - Presenter: E. Wooster

15:45-16:00 Vascular Interventions in Head and Neck Cancer Patients: Guidelines for best practice - Presenter: M. Lin

16:00-16:15 Impaired Angiogenesis and Wound Healing in a Tissue-engineered skin made with Diabetic Patients-Derived fibroblasts and keratinocytes - Presenter: T. De Serres-Berard

16:15-16:30 Preoperative Anemia has Gender Based Differences in Immediate Postoperative Mortality- Presenter: S. Raju

16:30-16:45 Persistent Opioid use Following Vascular Surgery - Presenter: V. Rojas-Luengas

16:45 **MEETING ADJOURNMENT - CLOSING REMARKS** *Montreal A/B 11th Floor*

16:00-18:00 **EXHIBITS DISMANTLING** *Montreal C/D 11th Floor*

18:30 **CSVS ANNUAL DINNER - Place D'Armes Hotel -55 rue St Jacques**

Cocktail Reception @18:30 followed by Dinner @19:30

Advance registration and dinner ticket required ($150)

Award Presentations -Bayer Resident Research Award, Sigvaris President's Award and Josephus C. Luke Award

SAVE THE DATE

CSVS Annual Meeting
September 13-14, 2019
Delta Grand Okanagan Resort
Kelowna BC

Thank you to our 2018 sponsors