



*Canadian Society for Vascular Surgery  
Soci t  canadienne de chirurgie vasculaire*

***40<sup>th</sup> Annual Meeting on Vascular Surgery***



**MONTR AL, QU BEC  
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 40<sup>th</sup> 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,  
Dr. April Boyd, President Elect  
Dr. Rafik Ghali, Past President  
Dr. Greg Browne, Past, Past President  
Dr. John Harlock, Secretary  
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Dr. Ricardo Ruz, Member at Large, Central  
Dr. Paul Petrasek, Member at Large, West  
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 - 8<sup>th</sup> Floor

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### 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](http://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](http://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 - 11<sup>th</sup> 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

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## 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 28<sup>th</sup> from 17:00 to 18:00
- CSVS Annual Dinner on Saturday September 29<sup>th</sup> 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 40<sup>th</sup> 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 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](http://www.ama-assn.org/go/internationalcme)***

## THURSDAY, SEPTEMBER 27, 2018

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

## FRIDAY, SEPTEMBER 28, 2018

07:00-17:00	REGISTRATION OPENS	Foyer Montreal 11 <sup>th</sup> Floor
07:00-07:45	BREAKFAST & EXHIBITS	Montreal C/D 11 <sup>th</sup> Floor
07:00-07:30	<b>The BEST-CLI - Update</b> Presenter: Dr. Matthew Menard	Montreal A/B 11 <sup>th</sup> Floor
07:30-07:45	<b>Update on CSVS AAA Screening Guidelines</b> Presenter: Dr. Varun Kapila	Montreal A/B 11 <sup>th</sup> Floor
07:45-08:00	<b>WELCOME &amp; OPENING REMARKS</b> President: Dr. Kent MacKenzie Program Chair: Dr. Joel Gagnon Secretary: Dr. John Harlock	Montreal A/B 11 <sup>th</sup> Floor
08:00-09:30	<b>PAPER SESSION I – TREATMENT OF PVD</b> Moderator: Dr. Joel Gagnon <i>Learning Objectives - At the end of this session, participants will be able to:</i> <i>1. Gather further knowledge for alternative treatment of bypass stenosis</i> <i>2. Explore different adjuvant medical therapy to improve result of post angioplasty</i> <i>3. Gain an understanding of cardiac markers status in association with critical ischemia</i>	Montreal A/B 11 <sup>th</sup> Floor
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-popliteal disease in TASC types C&D patients - Presenter: J. Dobson

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

**10:00-11:00 PAPER SESSION II – TREATMENT OF THORACIC AORTA** *Montreal A/B 11<sup>th</sup> 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 8<sup>th</sup> Floor*

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

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

*Foyer Montreal/Montreal C/D 11<sup>th</sup> Floor*

**13:00-14:15 PAPER SESSION III -TREATMENT OF CAROTID DISEASE** *Montreal A/B 11<sup>th</sup> 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 -** *Montreal A/B 11<sup>th</sup> Floor*  
 Presenter: Dr. Prasad Jetty

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

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

**SATURDAY, SEPTEMBER 29, 2018**

**07:00**                      **REGISTRATION OPENS**                      *Foyer Montreal 11<sup>th</sup> Floor*

**07:00-08:00**              **BREAKFAST & EXHIBITS**                      *Montreal C/D 11<sup>th</sup> Floor*

**07:00-08:00**              **RESEARCH COMMITTEE MEETING**              *Ramezay 8<sup>th</sup> Floor*

**07:00-08:00**              **EDUCATION COMMITTEE MEETING**              *St. Paul 8<sup>th</sup> Floor*

**08:00-09:00**              **PLENARY SESSION IV – ANEURYSMAL DISEASE I**      *Montreal A/B 11<sup>th</sup> 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 11<sup>th</sup> 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 octogenarians - 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 11<sup>th</sup> Floor*

**10:45-11:00** **RESEARCH SESSION** *Montreal A/B 11<sup>th</sup> 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 11<sup>th</sup> Floor*

**11:30-12:00** **CSVS Invited Guest Lecture II - Trans Cranial Doppler - Ultimate Monitor for Arch Interventions** *Montreal A/B 11<sup>th</sup> 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 11<sup>th</sup> floor*

Introduction by Dr. April Boyd

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

**13:45-15:00** **PAPER SESSION VI- TREATMENT OF VENOUS DISEASE** *Montreal A/B 11<sup>th</sup> 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: R. McLarty

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

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

**16:00-18:00** **EXHIBITS DISMANTLING** *Montreal C/D 11<sup>th</sup> 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

