CANADIAN SOCIETY OF PLASTIC SURGEONS (CSPS)
71st Annual Meeting
JUNE 22 – 24, 2017
WINNIPEG, MANITOBA

GOALS AND OBJECTIVES
To promote and provide Continuing Professional Development/Continuing Medical Education Activities for plastic surgeons in keeping with the goals and criteria of the Royal College of Physicians and Surgeons of Canada (RCPSC) and according to recognized educational methods and principles. To be innovative in the field of continuing professional development using novel methods of needs assessment and evaluation.

By the end of this meeting learners will describe the latest innovations in plastic surgery. Learners will be able to integrate new knowledge in breast and aesthetic surgery, general reconstruction and burn surgery, hand and microsurgery, outcomes and epidemiology, pediatric and craniofacial surgery and basic science into their practice.

THURSDAY, JUNE 22, 2017

0700 EYE-OPENER
Diabetic foot disease (001)
U Khan
Westbury-on-Tryn, United Kingdom

8:15 Opening ceremonies
Dr. Lennox - 5 minutes
Dr. Giuffre/Hayakawa - 5 minutes
Dr. Louie - 5 minutes

8:30 RCPSC Update - Dr. Ross

0835 Paravertebral blocks associated with improved pain control, decreased narcotic usage, earlier discharge from PACU and increased cost savings compared to general anesthesia alone in immediate breast reconstruction following mastectomy (01)
M Stein*, D Waltho, T Ramsey, A Arnaout, J Zhang
Ottawa, ON

0840 Examining revisionary surgery rates of breast cancer patients in Alberta who have undergone breast conserving surgery (02)
C Wilkes*, K Donaldson, A Bennett, L Korus
Edmonton, AB

0845 To examine the mechanisms through which adipose-derived stem cells affect healthy and malignant breast epithelial cell proliferation (03)
A Berdnikov*, S Chatterjee, E Buchel, A Raouf, J Safneck, V Lee-Wing
Winnipeg, MB

0850 DISCUSSION

0856 CANADIAN EXPERT: Correction of pectus excavatum by custom-made silicone implants: Contribution of computer-aided design reconstruction. A visit to Toulouse University Hospital with Dr. Jean-Pierre Chavoin by A Danino, MD, PhD (03A)
A Danino
Montréal, QC

0911 Anabolic-androgenic steroid use among gynecomastia patients - prevalence and relevance to surgical management (04)
FZ Xu*, R Cai, M Vojvodic, C Fielding
Barrie, ON

0916 Do pediatric patients with gynecomastia require evaluation by endocrinology preoperatively? (05)
A Malhotra, S Amed, M Bucevska, K Bush, J Arneja*
Vancouver, BC

0921 Does ketorolac increase the risk of bleeding after breast reduction? A retrospective case-control study. (06)
J Barkho*, E Duku, A Thoma
Hamilton, ON

0926 DISCUSSION
0932 The McGill augmentation mammoplasty operation (MAMO) simulator: Validation study (07)
R Kazan*, A Viezel-Mathieu, S Cyr, T Hemmelng, M Gilardino
St-Laurent, QC

0937 Aesthetic considerations in autologous breast reconstruction (08)
O Lerman, W Jalil*, I Karanetz, B Bassiri
New York, NY

0942 Celebrating the past 35 years of the Canadian Society of Plastic Surgery: A Historical video project (09)
Y Sardiwalla*, J Oore, J Taylor, S Morris
Halifax, NS

0947 DISCUSSION

0953 CANADIAN EXPERT: Global Surgery Advocacy and Outreach (09A)
Y Ying
Ottawa, ON

1008 COFFEE BREAK

1033 CANADIAN EXPERT: Facial fat grafting(09B)
D Matic
London, ON

1048 Effect of compound 21, a selective angiotensin II type 2 receptor agonist, in a murine xenograft model of Dupuytren disease (10)
J Chisholm*, M Bezuhly, T LeVatte, A Gareau, S Byun
Halifax, NS

1053 Trends in the usage of collagenase clostridium histolyticum for Dupuytren’s contracture in Ontario (11)
M McIntosh*, S Brogly, M Green, K Lajkosz, D McKay
Kingston, ON

1058 The submental versus groin vascularized lymph node transfer flaps: A head-to-head comparison of surgical outcomes following treatment for upper limb lymphedema (12)
OA Ho*, CY Lin, KM Patel, MH Cheng
Toronto, ON

1103 DISCUSSION

1109 Analysis of pediatric hand fractures failing initial closed reduction in the emergency department (13)
M Market*, K Cheung, M Bhatt
Ottawa, ON

1114 A comparison of conservative and operative management of thumb ulnar collateral ligament avulsion fractures in children (14)
M Huynh*, K Cheung
Ottawa, ON

1119 Morbidity following a modified sural nerve harvesting procedure in pediatric patients (15)
M Shafarenko*, J Catapano, E Ho, RM Zuker, GH Borschel
Toronto, ON

1124 DISCUSSION

1130 CANADIAN EXPERT: Moh's Micrographic Surgery (15A)
J Dawes
Calgary, AB

TIPS & PEARLS

1145 Making your delayed latissimus breast reconstruction look like an immediate (TP01)
J Wolfli
Edmonton, AB
A simple teaching model and pearls for syndactyly release  (TP02)
K Slater*, C Verchere
Vancouver, BC

Complications following alloplastic nipple reconstruction in breast reconstruction  (TP03)
Z Zhang*, K Boyd
Ottawa, ON

Concealed stealth costochondral scar for microtia reconstruction - Aesthetic unit concept: Technical description  (TP04)
L Lessard, C Aubin-Lemay*, É Bougie-Richardson
Montréal, QC

Trans-nasal wiring for the management of Non-Displaced Type I NOE fractures  (TP05)
R Chambers*, J Fialkov
Ottawa, ON

CSPS GUEST SPEAKER
Physician Burn-Out (15B)
D Drummond
Seattle, WA

YOUNG PLASTIC SURGEONS SYMPOSIUM
Invited speaker:  Physician Leadership Power Tools  - Dr. Dike Drummond

Masters of Disasters Panel:  Drs. Mitch Brown, Tom Hayakawa, Mike Morhart, Jaret Olson
Panel members present a "disaster" from their own practice in which they have learned something important that changed their perspective. This is also a forum for young surgeons to present difficult cases or complications that they have encountered early in their practice to be discussed by more senior panelists.
FRIDAY, JUNE 23, 2017

0700 **EYE-OPENER (15C)**
Social media in plastic surgery and protection of your online reputation
Almin Kassamali
Stylelabs Inc.
Calgary, AB

0800 **RESIDENTS CORNER**
Corneal neurotisation improves corneal healing in a novel rat model of neurotrophic keratopathy  (16)
J Catapano*, K Antonyshyn, JJ Zhang, GH Borschel
Toronto, ON

0805 The promotion of adipogenesis in a rat model of radiation induced fibrosis of the mammary fat pad  (17)
J Truong*, E Wong, E Turley, A Yazdani
London, ON

0810 The effect of nAG (a salamander-derived protein) on fibrosis in scleroderma fibroblasts  (18)
A Al-Qattan*, I. Lessard, A Philip
Montréal, QC

0815 **DISCUSSION**

0821 Safety of fleur-de-lis abdominoplasty in patients with a previous subcostal scar  (19)
J DeSerres*, T Quaife, E Fung, J Toy
Edmonton, AB

0826 3D imaging and breast measurements: How predictable are we?  (20)
K Steen*, K Isaac, B Murphy, B Beber, M Brown
Toronto, ON

0831 Perioperative Plastic Surgery patients are malnourished  (21)
M Roy*, P Hunter, J Perry, K Cross
Toronto, ON

0836 **DISCUSSION**

0842 National multidisciplinary survey of regional anesthetic availability and preferences in breast reconstruction  (22)
L Head*, A Lui, E Cordeiro, KU Boyd
Ottawa, ON

0847 Wide awake gynecomastia correction surgery: A comparison of general and regional anaesthesia for subcutaneous mastectomy and subcutaneous mastectomy with liposuction  (23)
M Vojvodic*, FZ Xu, R Cai, S Dreckmann, C Fielding
Toronto, ON

0852 Female-to-male gender affirming top surgery: A single surgeon's 15-year retrospective review & treatment algorithm  (24)
G McEvague*, FZ Xu, R Cai, H McLean
Toronto, ON

0857 **DISCUSSION**

0903 A further look into Alberta breast reconstruction wait times: influences of cancer staging and radiation therapy on delayed breast reconstruction  (25)
J Stone*, J Bu, D Dumestre, L Shack, L Huang, C Temple-Oberle
Calgary, AB

0908 Function-sparing "split" latissimus dorsi flap in breast reconstruction  (26)
M Evans*, T Omeis, E Kwong, S Valnicek
Vancouver, BC

0913 Surgical treatment of upper extremity lymphedema after breast cancer: a meta-analysis and systematic review  (27)
JI Efano*, AM Danino, S Moran, A Izadpanah
0918  DISCUSSION

0924  Development of a breast reconstruction training environment  (28)
A Viezel-Mathieu*, R Kazan, S Cyr, T Hemmerling, M Gilardino
Montréal, QC

0929  Development and evaluation of a high-fidelity cleft palate simulator for surgeon training and for development of a robotic approach to infant cleft palate surgery.  (29)
DJ Podolsky*, DM Fisher, K Wong, T Looi, JM Drake, CR Forrest
Toronto, ON

0934  Performance of paediatric core procedural competencies amongst Canadian Plastic Surgery Residents  (30)
A Knox*, J Shih, D Courtemanche, J Fish, M Brown
Vancouver, BC

0939  DISCUSSION

0945  3D-printed surgical simulator for Kirschner wire placement in hand fractures  (31)
M Brichacek, J Diaz-Abele*, S Shiga, C Petropolis
Winnipeg, QC

0950  Feasibility of using optical sensing to measure bore depth in surgical bone drilling  (32)
D Demsey*, JPG Arrunategui, N Carr, A Hodgson
Vancouver, BC

0955  Cost-effective three-dimensional models for surgical planning in head and neck reconstruction  (33)
I Ratanshi*, C Petropolis, E Buchel, T Hayakawa, D Rickey
Winnipeg, MB

1000  DISCUSSION

1006  COFFEE BREAK

1036  Utility of assessment using MRI, CT, and ultrasound for wrist pain  (34)
S Dreckmann*, H von Schroeder, J Shafin, H Baltzer
Richmond Hill, ON

1041  Can we identify a threshold for acceptable radiographic parameters of distal radius fractures in patients over 65 years old?  (35)
C Symonette*, J MacDermid, R Grewal
London, ON

1046  A novel device for the measurement of intrinsic strength  (36)
A Kim*, C Doherty, S Chinchalkar, L Ferreira
London, ON

1051  DISCUSSION

1057  Predicting which pediatric hand fractures require specialized care  (37)
R Hartley*, CA Kinlin, K Hulin-Poli, C Temple-Oberle, R Harrop, F Fraulin
Calgary, AB

1102  Infantile hemangiomas of the lip: which lesions are associated with complications and surgical intervention?  (38)
T Cawthorn*, A MacRobie, F Fraulin, R Harrop
Calgary, AB

1107  Low Apgar score as an indicator for prompt referral to a specialized multidisciplinary team in the non-operative treatment of obstetrical brachial plexus injuries  (39)
A Azzi*, C Aubin-Lemay, J Kvann, T Zadeh
Montréal, QC

1112  DISCUSSION
Outpatient burn care at BC Children's Hospital burn treatment room: a 3-year review
R Chan, A Van Slyke*, M Bucevska, C Verchere
Coquitlam, BC

A prospective review of two-dimensional methods versus three dimensional scanning systems in the assessment of total body surface area estimation in burn patients
H Retrouvey*, J Chan, S Shahrokh
Toronto, ON

SCAR-Q Kids: Developing a patient-reported outcome instrument for the pediatric burn, traumatic, and surgical scar populations
N Ziolkowski*, A Klassen, L Mundy, J Fish, A Pusic
Toronto, ON

DISCUSSION

Staged margin-controlled excision technique for Lentigo Maligna, a modification of the Spaghetti technique
J Beveridge*, M Taher, J Zhu, T Salopek
Edmonton, AB

Functional outcomes after tibial to peroneal nerve transfer in footdrop patients
M Curran*, J DeSerres, M Morhart, J Olson, M Chan
Edmonton, AB

The misconception of case-control studies in the plastic surgery literature: A literature audit
A Hatchell*, F Farrokhyar, M Choi
Hamilton, ON

DISCUSSION

Preoperative angiography for free fibula flap harvest - is it necessary?
N Alolabi*, H Augustine, L Dickson, C Levis
Hamilton, ON

Pediatric hepatic artery microvascular anastomosis in living donor liver transplantation: 73 consecutive cases by a single surgeon
K Zuo*, A Draginov, A Panossian, A Fecteau, E Ho, R Zucker
Toronto, ON

Facial transplantation outcomes; Comprehensive analysis of risks and benefits
M Alhefzi*, M Aycart, H Kiwanuka, N Krezdorn, E Bueno, B Pomahac
Hamilton, ON

DISCUSSION

A.W. FARMER LECTURE
Using Perforators and Supermicrosurgery to expand the horizon of lower extremity reconstruction
JP Hong
Seoul, Korea

MEET THE PROFESSOR
Navigating the Perils of Starting up a New Practice: Learning From the Mistakes of Others
Dr. Leif Sigurdson
Winnipeg, MB
Dr. Douglas Humphreys
Calgary, AB
SATURDAY, JUNE 24, 2017

0830 PANEL (48B)
Blepharoplasty
R Warren (moderator): Drs. Derek Ford, Mirko Gilardino, James Wolff
Vancouver, BC

0830 PANEL (48C)
Mastopexy
B Peterson (Moderator): Nancy Van Laeken, Matthew Mosher, and Richard Bendor Samuel
Kelowna, BC

0915 COFFEE BREAK

0930 PANEL (48D)
Basilar joint arthritis of the thumb
M Morhart (moderator): Paul Binhammer, Aaron Brown, Douglas Ross
Edmonton, AB

0930 PANEL (48E)
Facial reanimation
D Matic (Moderator): Jaret Olson, Nancy Van Laeken, and Louise Caouette-Laberge
London, ON

1015 COFFEE BREAK

1030 CANADIAN EXPERT

1045 Corneal neurotization in adults (49)
F Yau*, A Rubinov, A Al-Ghoul, E Weis
Calgary, AB

1050 30-day outcomes following surgical decompression of neurogenic thoracic outlet syndrome (50)
T Maqbool*, CB Novak, T Jackson, H Baltzer
Toronto, ON

1055 Intrallesional therapy with interleukin 2 for in-transit melanoma (51)
B Lopez-Obregon*, M Barreto, A Fyfe, G McKinnon, C Temple-Oberle
Calgary, AB

1100 Tissue expansion for equinus deformity: A 16-year review (52)
K Nickel*, A Van Slyke, A Knox, K Wing, N Wells
Vancouver, BC

1105 DISCUSSION

1112 A. Ross Tilley Lecture
Fellowship Secrets Revealed: Tales from the Green Monstah (52A)
K Cheung
Ottawa, ON

1127 Anatomic predictors associated with velopharyngeal insufficiency (VPI) following primary cleft palate repair (53)
D Matic*, DJ Lee
London, ON

1132 Acellular dermal matrix in primary palatoplasty: A prospective trial (54)
A Govshievich, S Aldekhayel, M Gilardino*
Montréal, QC

1137 Comparison between oximetry and polysomnography in identifying airway obstruction in infants with Robin Sequence (55)
R Galli*, M Gilardino, L Lessard, A Côté
Montréal, QC

1142 Assessing attentional bias in secondary cleft lip deformities: An eye-tracking study (56)
A Morzycki*, A Wong, P Hong, M Bezuhly
Halifax, NS

1147 DISCUSSION

1154 CANADIAN EXPERT

1209 Cost analysis of distraction osteogenesis versus conventional surgery in Le Fort III surgery in syndromic craniosynostosis  (57)
A Mosa*, E Zellner, E Ho, J Philips, C Forrest
Kingston, ON

1214 Sagittal craniosynostosis: A utility outcomes study  (58)
V Kuta*, PD McNeely, S Walling, M Bezuhly
Halifax, NS

1219 Comparing cephalic index and mid-sagittal vector analysis in assessing morphology in sagittal synostosis  (59)
BY Hong*, E Zellner, E Ho, J Phillips, C Forrest
Ottawa, ON

1224 DISCUSSION

1230 Repair of calvarial defects with a novel method of monetite-induced bone growth  (60)
M Abdulla*, M Gilardino, J Barralet
Montréal, QC

1235 A retrospective analysis of hospital costs associated with five methods of cranial vault repair  (61)
P Binhammer, A Binhammer*, O Antonyshyn
Toronto, ON

1240 Cephalometric analysis in rabbits: An animal model for future craniofacial research  (62)
M Mojtahed Jaberi*, A Aimani, H Shash, M Gilardino
Montréal, QC

1245 DISCUSSION

1251 BEYOND THE KNIFE
TBA
Vancouver, BC
P01
Direct neurotisation of a decellularised muscle matrix leads to improved muscle regeneration and neural tissue ingrowth
H Iyer*, S Lanier, E Friedrich, R Galiano
Chicago, IL

P02
The Canadian plastic surgery workforce: A national survey of residents and surgeons
The Canadian Plastic Surgery Research Collaborative Organization (A Morzycki)
Halifax, NS

P03
A practical and novel speech scoring tool for VPI
S Filson*, S Fischback, P Klaiman, D Fisher
Toronto, ON

P04
Does custom modeling of orbital floor implants improve conformance relative to pre-fabricated implants; a cadaveric study
R Chambers*, O Antonyshyn
Toronto, ON

P05
The utility and efficiency of a resident hand clinic for management of acute hand trauma at the University of Alberta
E Robertson*, C Budden, A Schmidt, B Ball, A Ladak
Edmonton, AB

P06
Presenteeism in the hand patient population: Understanding the impact of hand pathologies in the workplace
M Shafarenko*, M Vojvodic, M Roy, C Novak, S McCabe
Toronto, ON

P07
Let's reconstruct global surgery: Multidisciplinary breakdown of plastic surgery NGOs
Toronto, ON

P08
Let's reconstruct global surgery: Cleft lip and palate charity database
P Patel*, K Chung, L Kasrai
Hamilton, ON

P09
Acellular dermal matrix and radiation in immediate breast reconstruction
AM Chung*, A Ghumman, M Stein, J Zhang
Ottawa, ON

P10
Post-operative pain control following alloplastic breast reconstruction with muscle relaxer: A randomized controlled trial
H Alnaeem, MN Al Yafi*, ML Ma, L Xu, O Foudaneel
Montréal, QC

P11
Risk factors for titanium mesh implant exposure following cranioplasty
T Maqbool*, A Binhammer, P Binhammer, O Antonyshyn
Toronto, ON

P12
Rotator cuff tears and concomitant nerve injury: Prevalence and management
M Curran*, M Morhart, J Olson, F Ramazani, M Chan
Edmonton, AB
Surgical classification of gynecomastia: Systematic review and novel classification system
D Waltho*, A Hatchell, A Thoma
Ottawa, ON

Evaluating the implementation strategy of trainee-led Research in Canada
The Canadian Plastic Surgery Research Collaborative Organization (M Al Taha)
Halifax, NS

Transgender preferences in gender-affirming surgical care: A cross-sectional study
E Zellner*, J Persing, D Steinbacher
Toronto, ON

What are the provincial College of Physicians and Surgeons' guidelines on smartphone clinical photography?
M Heyns*, A Steve, D Dumestre, F Fraulin, J Yeung
Calgary, AB

Tissue-engineered nasal cartilage: preliminary data comparing digestion vs outgrowth cell isolation techniques in pediatric and adult nasal chondrocytes
A Burbank*, Y Liang, Mulet-Sierra, Aillette, J Olson, A Szojka, A Adesida
Edmonton, AB

An epidemiological review of panfacial fractures at a tertiary trauma centre
S Goekjian*, J Hu, A Nelson, MJ Cooper
Hamilton, ON

Imaging trends for the evaluation of suspected pediatric facial fractures
AL Wang*, M Bhatt, K Cheung
Ottawa, ON

Reporting complications in Plastic Surgery: A systematic review of randomized controlled trials
A Hudson*, A Morzycki, O Samargandi, J Williams
Halifax, NS

The diagnosis and management of the Spitz nevus in children: A systematic review, meta-analysis and review of Canadian practice (15)
M Stein*, J Abboud, A Bahubeshi, M Ramien, C Malic
Ottawa, ON

RESIDENT ePOSTER COMPETITION

Visual estimation of Dupuytren's flexion contractures - A prospective comparative trial
JP Corkum, JA Gillis*, DT Tang
Halifax, NS

Documentation of corneal reinnervation and investigation of improved ocular surface health after corneal neurotisation in patients with neutrophic keratopathy
J Catapano*, SSM Fung, C Jobst, RM Zuker, A Ali, GH Borschel
Toronto, ON

RP03
Barriers to immediate breast reconstruction and guideline implementation: A provincial survey
CJ Coroneos*, K Roth-Albin, SH Voineskos, MC Brouwers, R Avram, B Heller
Hamilton, ON

RP04
Dorsal scapula nerve transfer for obstetrical brachial plexus injury: Case series
H Augustine*, C Coroneos, M Choi, J Bain
Hamilton, ON

RP05
Are we headed for a shortage of burn care in Canada?
SQ Vrouwe*, MG Jeschke, JS Fish
Toronto, ON

RP06
A new limited submuscular direct-to-implant technique utilizing acellular dermal matrix
M Brichacek*, K Dalke, E Buchel, T Hayakawa
Winnipeg, MB

RP07
The weakness of power assessment: influence of medical specialty and level of training on inter-rater reliability of the Medical Research Council Scale for muscle strength
K Sawa*, C Doherty, D Ross, T Miller, K Sequiera
London, ON

RP08
Canadian trends in carpal tunnel surgery
B Peters*, J Giuffre
Winnipeg, MB

RP09
Repair of primary cleft palate and oronasal fistula with acellular dermal matrix: systematic review and surgeon survey
A Simpson*, O Samargandi, A Wong, M Bezuhly
Halifax, NS

RP10
An evaluation of diagnostic imaging vs. pathological diagnosis of peripheral nerve tumours: A 10-year retrospective review of one surgeon's clinical practice
C Nicholas
Toronto, ON

RP11
Thermal imaging in free flap surgery
A Fitzpatrick*, M McRae, R Avram
Hamilton, ON

RP12
Complication and reoperation rates of pedicled gracilis flap and vertical rectus abdominis myocutaneous flap for the reconstruction of perineal defects
A Fitzpatrick, P Patel, M Ramji*, F Farrokhyar, J Bain, R Avram
Hamilton, ON

RP13
How do physician attributes influence breast reconstruction decision making: A semi structured interview qualitative study
M Yu*, A Gagliardi, N Baxter, M Musgrave
Toronto, ON

RP14
Wound complications following simultaneous extensor and flexor tenolysis of the digits
R Strazar*, E Ambrose, M Abrams, A Islur
Winnipeg, MB
RP15
Outcomes in adult cleft lip patients following single-staged septorhinoplasty and lip revision
E Liu*, D Matic
London, ON

RP16
Morbidity of kirschner wires versus internal fixation devices for partial wrist fusion
V Hayward*, T Maqbool, H Baltzer, H von Schroeder
Toronto, ON

RP17
Fixation of ulnar nerve using a slip of medial head of triceps: A novel technique to treat ulnar nerve subluxation
J Vorstenbosch*, C Nguyen, K Murray, A Islur
Winnipeg, MB

RP18
Lipomatosis of nerve in the upper extremity: A continuum of disease
M Saheb-Al-Zamani*, L Wehrli, M Khanna, M Lax, D Anastakis
Toronto, ON

RP19
Outcome of diplopia in delayed enophthalmos repair
E Liu*, Z Najarali, F Farrokhyar, M McRae
Hamilton, ON

RP20
Educational interventions in post-graduate Plastic Surgery education: A systematic review of the literature
B Al-Halabi*, E Bilgic, M Vassiliou, M Gilardino
Montréal, QC

RP21
A 40-year review of demographics and clinical outcomes of adult burn patients admitted to a single provincial burn centre
T Omeis*, K Nickel, A Papp
Vancouver, BC

RP22
Applications of eye tracking technology for validity evidence of microsurgical skill assessment tools
E Fung*, G Wilkes, B Zheng
Edmonton, AB