



Patch Point

newsletter

SPRING 2017 | ISSUE 6

INSIDE THIS ISSUE

OBHG Annual MeetingPg. 1
Paramedic Research Corner: The ABCs of Autonomic DysreflexiaPg.2
Infographic: Provision of CarePg.3
The History of the Ontario Ambulance Program Part 3Pg.4
Welcome to Our New StaffPg.6 Colleen Shortt Shane Eickmann
Quality Award RecipientsPg.6
Ontario Paramedic Clincial Guide (OPCG)Pg.7

SPRING ISSUE

Ontario Base Hospital Group Annual General Meeting 2017

group holds an Annual General Meeting (AGM) for all its members. CPER was fortunate to be the host for 2017's AGM. Preliminary feedback has been positive. One of the topics discussed included the next steps of Just Culture. This included how to continue infusing the principles into day to day practices, and promoting collaboration between the Base Hospital, Paramedic and Paramedic Service. The goal being continuous focus on patient care, safety and system improvement.

We also heard from Walter Tavares who spoke about assessing continued competency in a Paramedic practice. Important to note he presented evidence, that experience and competency were not directly related to time on the road, or time in years practiced! We also heard a great deal of tips and tricks to assist organizations with simulation. Interestingly the cost was not always the limiting factor, Simulation can truly be created on any budget with innovation and creativity.

The new BLS PCS was debriefed in a panel discussion. How the changes

Each year the Ontario Base Hospital were decided, and the evidence to drive these changes were shared. Also included was the process to allow this overwhelming project to come to fruition.

> CPER's own Dr. Welsford spoke about the new evidence in sepsis care and the important role Paramedics have in the care of these challenging and dynamic patients. We also heard from Dr. Cheskes regarding his study around double sequential defibrillation. He would like to differentiate between more energy, and/or different vectors for the patient in refractory VF.

> The meeting concluded with a live broadcast of our CPER's own AskMED. This demo was both a lot of fun, and very relevant to other base hospitals. CPER's fun and casual approach was refreshing to the audience. The initiative's value was clearly demonstrated, and our great connection to our Paramedics!



PARAMEDIC RESEARCH CORNER

The ABC's of Autonomic dysreflexia

A big thank you to Paramedics Each enrolled Paramedic completed from Hamilton Paramedic Service, a questionnaire designed to measure along with Paramedics in BC and their knowledge about AD. Next Manitoba who volunteered their they completed the online ABC's time and participated in the ABC's of Of Autonomic Dysreflexia education Autonomic Dysreflexia (AD) study. module. Approximately one week,

(T6). It is something not well known or understood by some health care Results indicate that AD knowledge professionals, despite its importance. increased and can lead to complications. It is at Symptoms/signs may flushing, diaphoresis, confusion, and hypertension. AD can lead to retinal Want to learn more? You can infarction.

3 months and 6 months later, each AD is an acute, life-threatening participant was asked to complete condition that can occur in individuals an online post-test. This measured with a chronic spinal cord injury AD knowledge and beliefs about ADabove the 6th thoracic segment Clinical Practice Guidelines (AD-CPG).

following the ABC's The condition is uncomfortable of AD training and persisted follow-up. the 6-month often caused by activation of pain The results of this study were or other sympathetic fibers below published in Spinal Cord in 2016: KA the level of injury (eg: bladder Martin Ginis et al. Online training distention, abdominal problems, improves Paramedics' knowledge of pressure sores, constricting clothing). autonomic dysreflexia management include; guidelines. Spinal Cord. 2016 Sep 13: 1-7.

hemorrhage, stroke, myocardial complete the on-line educational and cardiac arrest. module ABCs of AD designed for

Provision of Care

On January 17, 2017 CPER launched an exciting new e-learning module and guideline regarding the Provision of Care. This module highlights and supports the guiding principle of on-going collaboration and communication between crew members of any designation, in order to provide the best care to our patients.

This unique module offers the learner an ability to select and review multiple 'answers' as each case does not have an absolute path. The intention of this module is to get Paramedics thinking of all the skills, procedures, assessments, and care which is required for the patient; and most importantly how to work together, collaborate and communicate.

All Paramedics have been enrolled in this module on eMedic and we are excited to report that of 65% of all Paramedics have completed this module. Two other modules will be available shortly so please take the opportunity to complete these when available. Please see our Provision of Care infographic on the next page.

ACP or PCP

PARAMEDIC 1



PROVISION OF CARE

ACP or PCP

PARAMEDIC 2



COMMUNICATION



Communicate with the patient & each other What is needed?



PROCEDURES



Complete skills and procedures Share the task load Both crew members can treat



COMMUNICATION



Continued communication & collaboration as a team



DECISIONS



Who will continue with the call? What care has been given what will be required?



CONTINUED CARE



Continued care during transport Ensure to communicate of any changes





SPRING 2017 • Page 2 SPRING 2017 • Page 3

THE HISTORY OF THE ONTARIO AMBULANCE PROGRAM

PART 3

(Find part 1 in the Fall 2015 edition and part 2 in the Spring 2016 edition on www.cper.ca)

With the last installment, it was in 1997 showing a patient benefit with ACP care that the Emergency Health Services Branch and some showing little benefit with ACP of the Ministry of Health agreed to a major \$15 Million dollar expansion of Advanced Support in out-of-hospital Cardiac Arrest" Care Paramedic (ACP) care in Ontario, under was published in the New England Journal the research umbrella of OPALS (the Ontario of Medicine, 351(7), 647-656. It did not Prehospital Advanced Life Support Study). show a benefit to ACP care in cardiac arrest This brought land ambulance based ACP's to; treatment, but did show the importance of Niagara, Ottawa, Waterloo, London, Thunder CPR in cardiac arrest survival. Also the fact Bay, Sarnia, Sudbury, Windsor and Kingston. that ACP's time to arrive on scene was 11 It was also a requirement these communities minutes was seen as a weakness. had an "optimized defibrillation program" meaning there was expansion of Firefighter In 2007, Advanced Cardiac Life Support Defib programs in these areas.

Thus began the OPALS era in Ontario, with in the New England Journal of Medicine, the first of hundreds of new Advanced Care 356(21), 56-2164. This showed a profound Paramedics hitting the streets beginning in benefit to patient survival of 50% when 1997. The original training was complete and a patient in severe respiratory distress coordinated through the Toronto Institute received ACP care. Similar findings were of Medical Technology (TIMT). Clinical also found with chest pain patients. In 2008, experience was gained at the local OPALS. The OPALS Major Trauma Study: impact hospitals, and preceptorships through the of advanced life-support on survival and existing "pilot" programs in Toronto and morbidity was published in the Canadian Hamilton. The program kept the original Medical Association Journal, 178(9), 1141-52. centralized structure when it was moved. This study was important as it helped set a to the Michener Institute after a period of standard for avoiding the use of intubation in time. Over the next 3 years training became major trauma, as it adversely effects survival. decentralized using the existing Community College system. Precepting was completed The EHS Branch of the Ministry continued to locally as more experienced ACP Paramedics set Standards and to do investigation and were available. Over 500 ACP's were trained licensing of EMS Services and of Paramedics. and funded by the EHS Branch in the OPALS The Branch also funds the Base Hospital expansion.

One central premise of the \$15 million in The Medical Advisory Committee (MAC) of funding was that research would be done the Ontario Base Hospital Group (OBHG) was papers in top tier medical journals. Some

treatment. In 2004, "Advanced Cardiac Life

for out-of-hospital Respiratory Distress was published by the OPALS group also

Program.

by the OPALS group. To study the effect of the body that looked at the medical evidence Paramedics on an existing firmly based BLS set and revised medical directives for PCP's system. The research was led by the Dr lan and ACP's. With Municipalities taking on more Stiell, Dr. George Wells Dr. Dan Speight (of leadership and funding role in Paramedic Tucson AZ) and the Ottawa OHRI team. The services, there was development of ACP OPALS group published many important programs in many non-OPALS communities.

Paramedics in the OPALS communities. Paramedics are often in the angioplasty suite. York, Ottawa, Toronto, Niagara, and northern to see their patient's heart re-vascularized Ontario all saw significant expansion to ACP and life saved. The EMS research roots of and PCP services. And what a variety of OPALS continued under the North American challenges Ontario's Paramedics have faced! collaboration of the Resuscitation Outcomes

Department personnel killed including many Washington State, Pittsburg, Dallas, San Paramedics. This ushered in a new reality for Diego and others. Along with 300 EMS disaster management, and mutual aid for organizations, involving more than 30,000 Emergency Services. 2003 began the SARS fire and emergency medical service (EMS) epidemic in Ontario. Very frightening times providers, who serve a combined population for all front line health care workers, and the of nearly 25 million people from diverse population of Ontario. Of the 44 deaths in urban, suburban and rural regions. Ontario, one half was health care workers.

Province through cross certification.

programs began to be designated across the in Ontario and gives some perspective as to province. Paramedics' role in this program how far the practice of Paramedicine and the was to screen for possible stroke, and then management of the EMS system, have come get the patient to a designated stroke over the last 50 years. The next chapters will centre. The patient could be evaluated for be written by the Paramedics, Paramedic possible thrombolysis of embolic strokes Service Operators and EMS Physicians, who with the drug TPA. This initiative enabled by serve the most critically ill and injured people EMS, has saved many lives and many brain in our health care system. cells. In 2016 we are seeing the evolution of that Regional Stroke program to use endovascular, (catheter techniques) to treat certain selected stroke patients.

EMS care for Acute ST Elevation MI (STEMI) has also seen major changes in the past decade. As hospital cardiac catheter labs ramped up with increasing resources and capacity many patients who could be transferred to a cath lab within 1 hour now go direct, from "the street" to the lab for

Expansion on the original number of assessment and often balloon angioplasty. Consortium (ROC) group. ROC researchers Sept 11, 2001 ... "9/11". 345 New York Fire continued to collaborate in Ontario, BC,

From 2007 - 2009 the Base Hospital Program Between 2009 and 2015 the ROC group, which in Ontario consolidated from 26 programs included many Ontario Paramedics, looked at into 7 land programs plus air. Although to the various EMS questions and published studies front line Paramedic, the changes may not looking at: Continuous Cardiac Compression have been all that obvious. It did usher in an (CCC) CPR, amiodarone vs lidocaine in era of greater consistency in Base Hospital ventricular arrhythmias (ALPS), comparing programs and services, and greater ease trauma IV solutions, IPV valves in CPR and of mobility of certification/authorization. others in major peer reviewed medical Allowing Paramedics to move around the journals. All this would not have been possible without the help of Ontario's Paramedics. EMS in Ontario is an ever evolving entity. This Beginning in about 2006 Regional Stroke is the third of my series on the History of EMS

Dr. Doug Munkley

SPRING 2017 • Page 4 SPRING 2016 • Page 5

Colleen Shortt Research Coordinator



Colleen comes to us from McMaster University, where she recently completed her PhD in Medical Science. Colleen has 5 years research experience at the bed side and in acute care. She has over 15 co-authored publications and has presented her research both Nationally and Internationally. Colleen's research interests include acute coronary syndrome, cardiovascular biomarkers, early decision-making tools and diabetes. In her spare time Colleen enjoys running, and playing soccer.



Shane Eickmann Outreach Coordinator

Shane's passion for Paramedicine is palpable – he is an Advanced Care Paramedic and Operations Superintendent for Niagara EMS. Shane has been a Paramedic Instructor with CPER for several years and a part time instructor at Niagara College. Shane has also competed and won several Paramedic Simulation Competitions throughout the world, and hopes to expand the role of simulation here at CPER. As a volunteer for GlobalMedic, he trained land mine clearance personnel in Cambodia, and deployed to field hospitals in Haiti and Turkey following earthquakes. Shane is the current Director of Public Relations for the Niagara Paramedic Association ,and is a long-time volunteer with the Canadian Red Cross. He was awarded the Queen Elizabeth II Diamond Jubilee medal for his exemplary contributions to Canada. He is looking forward to his new role as the Outreach Coordinator for CPER.

Quality Award Recipients

The CPER Quality Award is given to a selection of Paramedics, on a quarterly basis, who have provided exemplary patient care, advocated for their patients and / or completed excellent documentation.

Lindsay Currie, PCP

Hamilton Paramedic Service

Mike Webster, PCP
Hamilton Paramedic Service

Tara Dawdy, PCP

Hamilton Paramedic Service

Pamela Brennan, PCP

Hamilton Paramedic Service

Alain Vaillant, ACP

Dufferin County Paramedic Service

Clay Kavelaars, PCPDufferin County Paramedic Service

Adam Brown, PCP

Region of Waterloo Paramedic Service

Lindsay Veilleux, PCP

Region of Waterloo Paramedic Service

Brennan Clarkson, ACPRegion of Waterloo Paramedic Service

Evan Coppaway, ACP

Six Nations Paramedic Services

Mike Winnie, PCP

Six Nations Paramedics Services

INTRODUCING THE

Ontario Paramedic Clinical Guide

MEDICAL DIRECTIVES APP



The Ontario Paramedic Clinical Guide (OPCG) App, produced by the Ontario Base Hospital Group, has been designed to provide the medical directive content to Ontario Paramedics in the palm of their hands.

The App includes customized Base











CONTACT US

If you have any questions, comments or have a suggestion for a Patch Point article submission, please contact:

JULIE LANGDON Administrative Assistant jlangdon@cper.ca



SPRING 2017 • Page 6 SPRING 2017 • Page 7