



In 2011, the Ministry of Health and Long Term Care (MOHLTC) requested Critical Care Services Ontario (CCSO) to lead a planning process to develop a comprehensive neurosurgical system to meet the needs of adult and paediatric patients across Ontario. As a part of this program, the MOHLTC also committed new nursing positions, including clinical Neurosurgical Outreach Nurse and Neurosurgical Nurse Educator positions, to support the management of specialized

paediatric and adult neurosurgical patients.

The Neurosurgery Education and Outreach Network (NEON) was established in May 2013 to work in collaboration with the Provincial Neurosurgery Advisory Committee to support the educational component of recommendations to better integrate access to neurosurgical services in the province. Originally comprised of Nurse Educators and Program Directors from each of the province's adult neurosurgical centres, their work formed the foundation for an educational outreach program designed to provide a wide breadth of education to non-neurosurgical centres on neurosurgical patient's care across the continuum. The

expanded network has grown to include Clinical Nurse Specialists, Advanced Practice Nurses and Nurse Practitioners working in both adult and paediatric neurosurgery.

The OUTREACHER Newsletter will be published two to three times per year to provide regional hospitals with Neurosurgery updates and education.

NEON:

**Working towards
Provincial
improvements in
neurosurgical
service delivery**

Inside this issue

Post Op Complications Following a Craniotomy: pp. 2-3

Educational Opportunities in your LHIN: pp. 2-3

Upcoming events- Paediatric Neuroscience Conference 2020 and 14th Annual Canadian Neuroscience (CANN) Meeting: pp. 4

What's New! and Coming Soon!: pp. 5

Who to contact in your LHIN: pp. 6

- IMPROVING ACCESS
- IMPROVING QUALITY AND RESPONSIVENESS
- IMPROVING NEUROSURGICAL NURSING CARE ACROSS ONTARIO

Post op Complications Following a Craniotomy

Neurosurgery Education and Outreach Network **NEON**



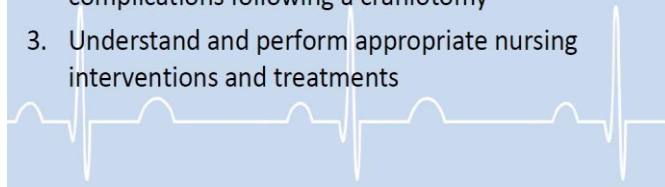
Post op Complications Following a Craniotomy



Learning Objectives

The learner will be able to:

1. Explain the complications that can arise from a craniotomy
2. Recognize signs and symptoms of post operative complications following a craniotomy
3. Understand and perform appropriate nursing interventions and treatments



Definitions

- **Craniotomy:** defines a procedure where the cranial cavity is accessed through removal of bone to perform a variety of brain surgeries. Once the surgery is completed, the bone flap is returned to its previous position
- **Craniectomy:** differs from a craniotomy in that the bone is not replaced to its previous position: instead it is stored for future insertion or may be discarded depending on pathology (i.e.. Infection). This results in cranial defect
- If the bone flap is discarded, it is replaced with a custom made implant
- **Cranioplasty:** replacement of the bone flap

EDUCATIONAL OPPORTUNITIES IN YOUR LHIN!

****Please note all education may be postponed or cancelled due to Covid-19 precautions****

LHIN 5/6

March 30, 2020 – William Osler ED New Hire Orientation – Neuro Day

March 31, April 9, April 14 – Credit Valley Hospital – ICU- Neuro Day

LHIN 7/8/9W/12

Neurosurgery Education Workshop

May 22, 2020 - 8-4: Hosted by Mackenzie Health

May 29, 2020 - 8-4: Hosted by Lakeridge Health Oshawa

TBD, 2020 - 8-4: Hosted by Royal Victoria Regional Health Centre

Register at www.eventbrite.com (search for "Neurosurgery Education Workshop")

LHIN 9E/10

Neurosurgical CritiCall Case Reviews

March 30, April 1, April 3, and April 6 2020- Quinte Healthcare – Belleville General Site

April 2020- TBD – Northumberland Hills Hospital

April 2020 TBD – Brockville General Hospital

EDUCATIONAL OPPORTUNITIES IN YOUR LHIN!

****Please note all education may be postponed or cancelled due to Covid-19 precautions****

LHIN 11

January 2020- Cornwall Hospital Nursing Education Day – Changes to GCS

February 2020- Cornwall Hospital – Case Conference-Repatriation –Patient specific teaching

February 2020- Almonte Hospital Nursing Skills Fair

February 2020- Royal Ottawa Hospital – GCS Changes teaching

April 2020 – Cornwall Hospital Nursing Education Day

April 2020- Collar Care teaching to develop Champions

April 2020- Winchester Hospital – Changes to GCS

LHIN 14

NEON/RCCR - Neuro/Critical Care Education Day

May and June 2020

May 26 - Nipigon District Memorial Hospital

May 27 - Geraldton District Hospital

June 10 - Santé Manitouwadge Health

June 11 - Marathon – North of Superior Health Care Group

June 12 - Terrace Bay – North of Superior Health Care Group

September and October 2020

September 29 - Atikokan General Hospital

September 30 - La Verendrye General Hospital

October 1 - Lake of the Woods District Hospital

October 21 - Red Lake Margaret Cochenour Memorial Hospital

October 22 - Dryden Regional Health Centre

October 23 - Sioux Lookout Meno Ya Win Health Centre

Post op Complications Following a Craniotomy (continued)

Complications

The major risks following a craniotomy that will be discussed in this webinar include the following:

1. Infection
 - i. Surgical Site Infection
 - ii. Meningitis
2. Cerebrospinal Fluid (CSF) Leaks
3. Hydrocephalus
4. Swelling/Expansion
5. Elevated Intracranial Pressure (ICP)
6. Herniation

Your Role

- ✓ Conduct neuro-vital sign checks more often to detect, document and identify the trend in status
- ✓ Enact nursing interventions to decrease ICP
- ✓ Communicate
- ✓ Be persistent
- ✓ Work with MD to treat underlying causes
- ✓ Support family
- ✓ Document

Click the link below for all slides:

Neurosurgery Education and Outreach Network **NEON** 

Post op Complications Following a Craniotomy

Outreach in Action- LHIN 11



On September 6, 2019 we had an amazing opportunity to travel to a rural hospital to host a Neuro Education Day. We had a total of 33 participants, which included attendees from 7 different outlying areas. Participants travelled as far as 340 km to attend this session!

The morning began with the introduction of 3 neuro case scenarios in which the participants were asked to score the GCS. Staff gained a true appreciation on the various assessments that occur from practitioner to practitioner based on interpretations of the language on the GCS scale. Participants could truly appreciate the different ways in which health care providers actually score the GCS. We included breakout sessions for the remainder of the agenda for the participants to take part in log rolling, and consideration of C-Spine precautions, application of a cervical collar and information on the Jewitt Brace and Halo devices. Theresa Murray, our Trauma Coordinator for HSN joined this session as well to discuss initial trauma assessments in the ER department.

The day was a huge success! Feedback from participants left them craving for more education! Our next travels will be in the spring of 2020 where we will reach out to a larger hospital and extend the invitation to the outlying hospitals in that area.

Upcoming events – Dates may change due to Covid-19 precautions

PAEDIATRIC NEUROSCIENCE CONFERENCE 2020



SAVE THE DATE
JUNE 5TH 2020
8AM - 4PM

**THE HOSPITAL FOR SICK CHILDREN
HOLLYWOOD THEATRE**

Event is **FREE** for SickKids Staff
Early bird tickets are: \$100.00 for
External participants
Further details for registration to follow

2020 Sask –a- Banff CANN Annual Conference has been cancelled.



CANADIAN ASSOCIATION
OF NEUROSCIENCE NURSES
ASSOCIATION CANADIENNE DES INFIRMIÈRES
ET INFIRMIERS EN NEUROSCIENCES

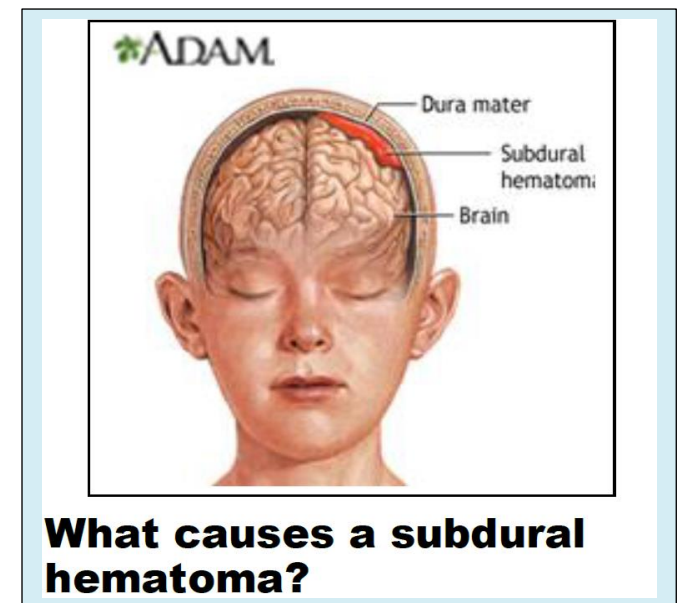
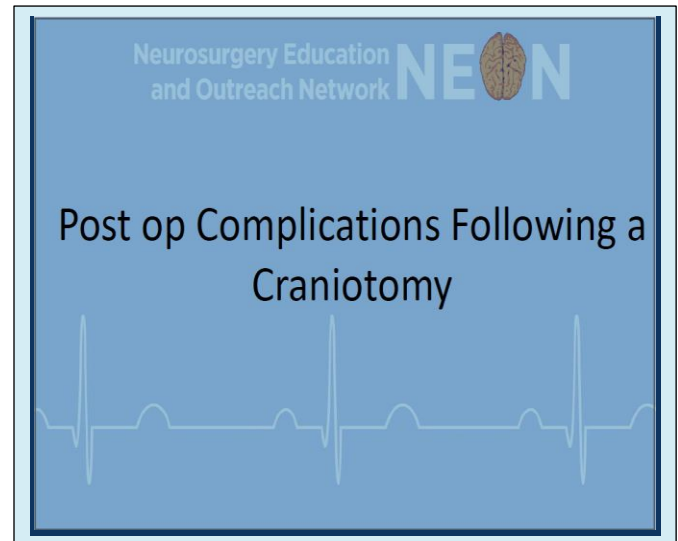
What's New!

- Post op
Complications
Following a
Craniotomy

- Subdural Hematoma

Coming Soon!

- Spinal Cord Injuries
Quick Reference Manual
- Braces, Jewett and
TLSO Application and
Management
- Brain Tumour



LHIN	Organization	Neuro-Nurse Educator	Clinical Outreach Specialist
LHIN 1	Windsor Regional Hospital	Jill Best	Jill Best
LHIN 2	London Health Sciences Centre	Sheila Hunt	Kimberly Salway
LHIN 3/4	Hamilton Health Sciences	Brenda Bousfield	Klaudia Gogishvili Sera Nicosia
LHIN 5/6	Trillium Health Partners	Beverly Espedido	Caroline Booth
LHIN 7/8/9W/12	University Health Network	vacant	vacant
LHIN 7/8/9W/12	St. Michael's Hospital	Caitlin Stanton	Denise Ouellette
LHIN 7/8/9W/12	Sunnybrook Health Sciences Centre	Lars Kure	Nicole E Cross
LHIN 7	The Hospital for Sick Children	Elisabeth White	Elisabeth White
LHIN 9E/10	Kingston General Hospital	Marnie Cranston	Vacant
LHIN 11	The Ottawa Hospital	Raizha Gramcko	Dianna Hughes
LHIN 13	Health Sciences North Sudbury	Lisa Weiler	Jennifer Arsenault
LHIN 14	Thunder Bay Regional Health Sciences Centre	Kevin Halabecki	Kim Belluz

