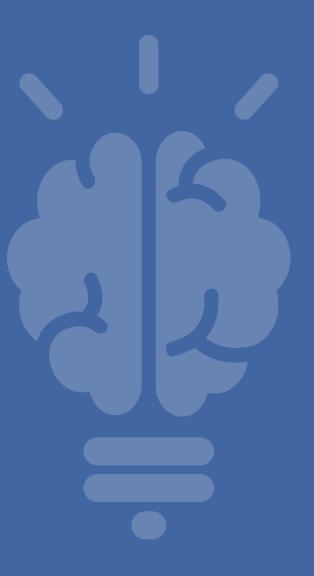
TOPIC:

Introduction to Stroke



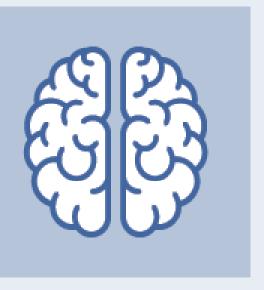


Did you know?

- ✓ Stroke is the 3rd leading cause of death and a leading cause of disability in Canada
- ✓ 60% of persons with stroke will have a long-term impairment that can
 affect participation in everyday activities
- √ 1 in 5 persons living in Long Term Care have had a stroke
- ✓ Stroke recovery can be a lifelong process



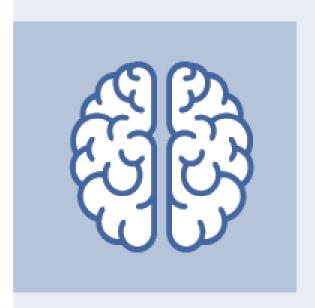
How does the brain work?



- The brain is divided into 2 halves called hemispheres
- The left hemisphere controls the right side of the body and the right hemisphere controls the left side of the body
- The location of the stroke determines what functions are affected

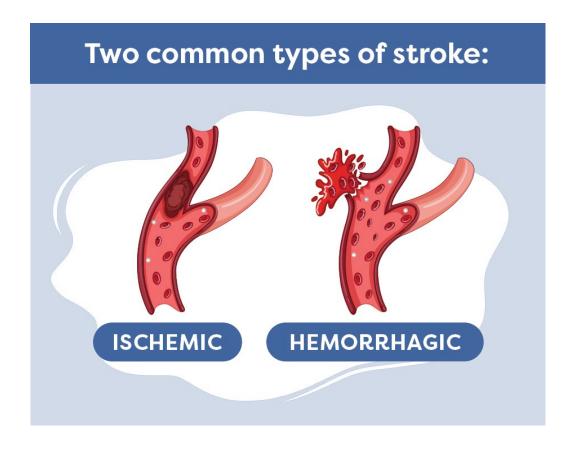


What is a stroke?



 A stroke is sudden and occurs when the blood supply to part of your brain is interrupted causing brain cells to die





Ischemic

- Blood supply in the brain is blocked by blood clots and/or buildup of plaque in the blood vessels
- More than 75% of strokes

Hemorrhagic

- A blood vessel in the brain leaks or ruptures
- Less than 25% of strokes



What is a TIA?

- ✓ <u>Transient Ischemic Attack</u>
- ✓ Sometimes called a "mini-stroke"
- ✓ Caused by a short-term lack of blood flow to the brain
- ✓ May cause stroke symptoms that last minutes to hours
- ✓ An important warning sign that a more serious stroke may occur soon
- ✓ Must be treated as a MEDICAL EMERGENCY
- √ 911 should be called immediately





SPOT A STROKE - ACT **F.A.S.T**





FACE drooping





ARM weakness









TIME is critical - call 911

Signs and Symptoms of Stroke

- ✓ Recognize the signs of stroke; act quickly!
- ✓ FAST is a good way to recognize and remember these signs and symptoms
- ✓ Sudden onset of other symptoms may also be indicative of stroke, including:
 - loss of balance/coordination
 - changes in vision
 - sudden severe headache
 - numbness in one half of the body



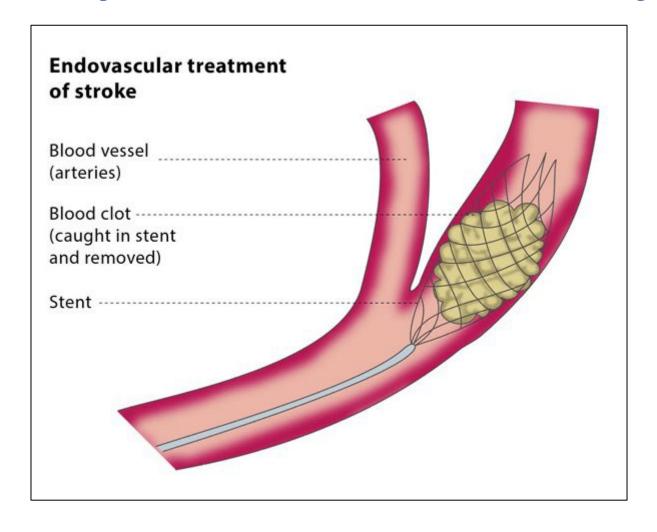
Early Interventions- Thrombolysis



- Some people with ischemic stroke are eligible for a clot-busting drug
- The drug aims to dissolve the clot and return the blood supply to the brain
- It must be given quickly after the onset of stroke symptoms for eligible people (up to 4.5 hours)
- Examples of clot-busting drugs are TNK and tPA



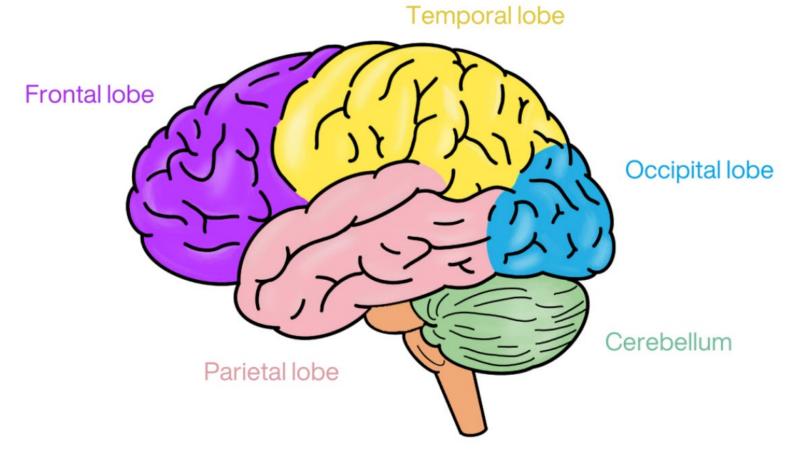
Early Interventions- Thrombectomy



- Endovascular Therapy (EVT or thrombectomy) involves the mechanical removal of a blood clot within a large artery of the brain
- Can be performed up to 24 hours after the onset of symptoms in select patients



Parts of the Brain



Brainstem



Functions of the Brain

Frontal Lobe

- Memory
- Planning
- Thinking
- Organizing
- Emotions
- Movement

Temporal Lobe

- Memory
- Understand words
- Emotions
- Visual recognition
- Senses
 (especially sight and sound)

Parietal Lobe

- Sensory processing (e.g. taste, pain)
- Body awareness
- Language
- Spatial awareness

Occipital Lobe

- Distance and depth perception
- Object/face recognition
- Memory formation
- Colour

Cerebellum

- Balance
- Movement
- Coordination

Brainstem

- Heart rate
- Blood pressure
- Sleep
- Breathing
- Reflexes



Common effects of Stroke

Every stroke is different; changes may include:

- One-sided weakness/paralysis
- Loss of balance/coordination
- Bladder/bowel problems
- Swallowing problems
- Fatigue
- Trouble communicating



Common effects of Stroke continued...

- Loss of sensation (how you perceive touch, temperature, etc.)
- Difficulty paying attention to one side of the body or environment
- Vision changes
- Changes in thinking and/ or memory
- Changes in personality or behaviour
- Changes in emotions or mood (e.g. unexpected emotional responses)



Risk Factors for Stroke

Non-Modifiable Risk Factors

- Age: Increased risk after 55 years of age
- Gender: After menopause, women have a higher risk than men
- Genetic factors: Parent or sibling had a stroke before age 65
- Ethnicity: Increased risk for people of African, South Asian, Indigenous heritage
- Prior stroke or TIA



Risk Factors for Stroke

Lifestyle

- Diet
- Smoking
- Obesity
- Sedentary lifestyle

- Excess alcohol intake
- Recreational drug use
- Stress



Risk Factors for Stroke

Disease or Medications

- High blood pressure
- Diabetes
- High cholesterol
- Heart disease / arrhythmias
- Coagulation disorders

- Vascular disease
- Sleep apnea
- Taking birth control or hormone replacement



Understanding the effects of stroke will help you to provide better care and support to the person with stroke and their family.



Recovery after a stroke is possible.

It begins immediately after the stroke and continues throughout one's life.