

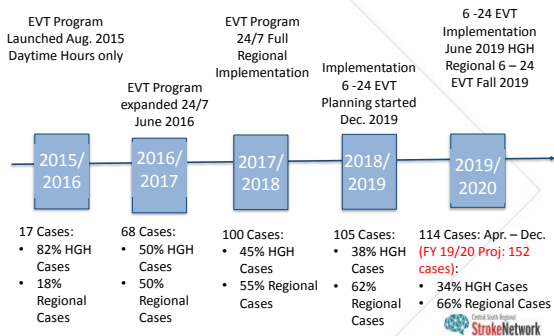
Objectives

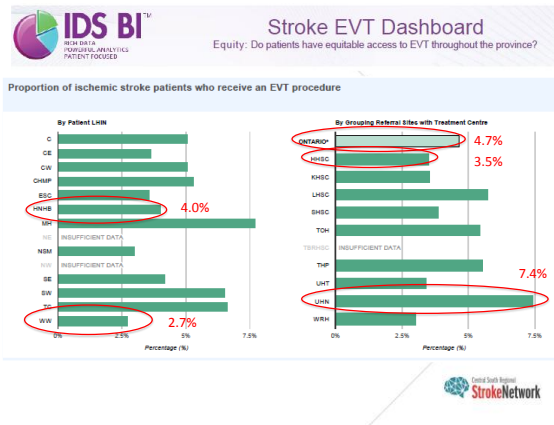
- **Review Key Metrics related to Endovascular Therapy in Central South Ontario**

- Volumes
- Treated/Not Treated
- Patient Characteristics
- Outcomes

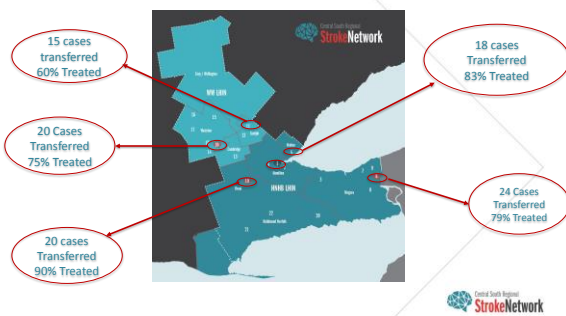


Stroke Endovascular Treatments Volumes

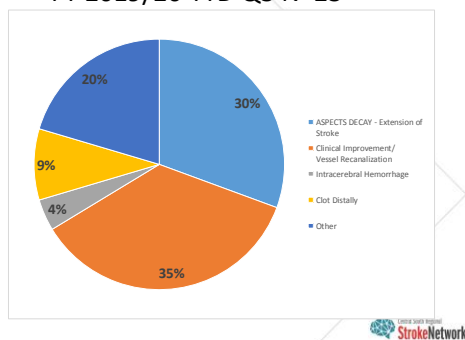




Central South Regional Stroke Network Regional Transferred Cases N=98 Cases

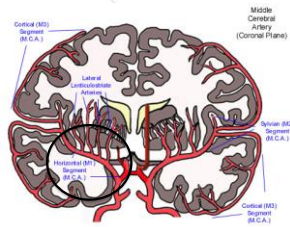


Reasons Regional Stroke Cases not Treated FY 2019/20 YTD Q3 N=23



Who are we Treating?

- **Age**
 - Average: 71
 - Median: 75
 - Range: 29 - 99
- **Site of Occlusion**
 - M1 (56%)
 - Carotid T (25%)
 - Other (19%)



Central South Region
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Who are we Treating?

- Percentage treated with tPA
 - 47.4%
- Stable vs. Unstable Cases
 - Stable: 90.4%
 - Unstable: 9.6%



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Functional Outcomes

- **Patient Presentation**
 - Median Admit NIHSS Score: 18

1A Level of consciousness 0 alert 1 drowsy 2 obtunded 3 comatose/unresponsive 2 Gaze 0 normal horizontal movements 1 complete gaze palsy 3 Motor function (arm) 0 no drift 1 drift before 10 seconds 2 falls before 10 seconds 3 no movement/gravity 4 Sensory 0 no sensory loss 1 mild sensory loss 2 moderate sensory loss 3 severe sensory loss 5 Extinction or inattention 0 intact 1 mild loss of one sensory modality 2 severe loss of one sensory modality	1B Orientation questions (two) 0 both correctly 1 one correctly 2 neither correctly 3 Visual fields 0 no visual field defect 1 partial hemianopia 2 complete hemianopia 3 bilateral hemianopia 4 Motor function (leg) 0 no drift 1 drift before 5 seconds 2 falls before 5 seconds 3 no movement/gravity 6 Language 0 normal 1 mild dysphasia 2 severe dysphasia	1C Response to commands (two) 0 both correctly 1 one correctly 2 neither correctly 4 Facial movements 0 normal 1 minor facial weakness 2 complete unilateral palsy 7 Limb ataxia 0 no ataxia 1 ataxia in one limb 2 ataxia in two limbs 10 Articulation 0 normal 1 mild dysarthria 2 severe dysarthria
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Figure 1 The criteria of NIHSS score in detail.
Abbreviation: NIHSS, National Institutes of Health Stroke Scale.

Functional Outcomes

• Patient Presentation

– Median Discharge NIHSS Score: 4

1A Level of consciousness 0 alert 1 drowsy 2 obtunded 3 comatose/unresponsive	1B Orientation questions (two) 0 both correctly 1 one correctly 2 neither correctly	1C Response to commands (two) 0 both correctly 1 one correctly 2 neither correctly
2 Gaze 0 normal horizontal movements 1 partial gaze palsy 2 complete gaze palsy	3 Visual fields 0 no visual field defect 1 partial hemianopia 2 complete hemianopia 3 bilateral hemianopia	4 Facial movements 0 normal 1 unilateral facial weakness 2 bilateral facial weakness
5 Motor function (arm) 0 no drift before 10 seconds 1 drift before 10 seconds 2 no effort against gravity 3 no movement	6 Motor function (leg) 0 no drift 1 drift before 5 seconds 2 falls before 5 seconds 3 no effort against gravity 4 no movement	7 Limb ataxia 0 no ataxia 1 ataxia in one limb 2 ataxia in two limbs
8 Sensory 0 mild sensory loss 1 mild sensory loss 2 severe sensory loss	9 Language 0 normal 1 mild aphasia 2 severe aphasia 3 mute or global aphasia	10 Articulation 0 normal 1 mild dysarthria 2 severe dysarthria
11 Extinction or inattention 0 absent 1 mild (loss of one sensory modality) 2 severe (loss of two sensory modalities)		

Figure 1 The criteria of NIHSS (score in detail).
Abbreviation: NIHSS, National Institutes of Health Stroke Scale.

Functional Outcomes

• Length of Stay

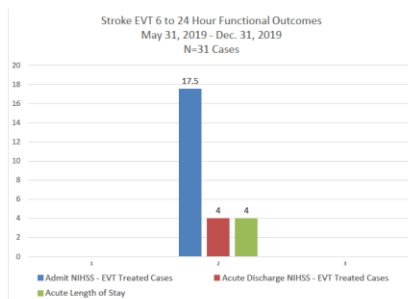
– Median Acute LOS: 3 days

• Discharge Disposition

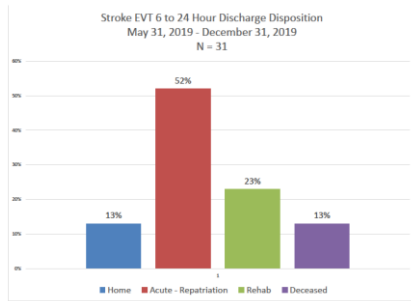
- Directly Home: 19%
- Acute Repat: 48%
- Rehabilitation: 18%
- Deceased/Hospice: 14%



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Questions



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