

## Nursing Stroke Quick Reference Guide and Assessment Checklist – COVID-19 Pandemic

**This document is meant to support nurses who may not have experience working with the acute stroke population and provides a summary of guidelines required to support patients admitted to hospital following stroke.**

For basic information on stroke, refer to the [Stroke 101](#) document

### Prior to seeing the patient:

- Locate order set
  - Note that there are different order sets for ischemic and hemorrhagic stroke as well as orders set for those who received tPA and/or EVT
- If available at your organization, obtain stroke care pathway

### Neurological Assessments and Observations

A neurological (neuro) assessment provides a standardized method to rapidly identify emerging stroke complications, and will provide a better patient prognosis. Symptoms of change in neurological status may include:

- Restlessness
- Lethargy
- Change in balance
- Combativeness
- [Decline in motor strength](#)
- Change in speech/language
- Confusion
- Decrease in coordination
- [Pupil changes](#)
- Severe headache

(HSFO, Faaast FAQs, 2007)

**\*Contact the physician or nurse practitioner if any change in neurological status is noted.**

#### Complete the Canadian Neurological Scale (CNS)

The CNS is an assessment tool for evaluating and monitoring the neurological status of acute stroke patients. It can be administered in approximately 5 minutes.

Directions on how to complete the CNS can be found [here](#)

#### Complete the Glasgow Coma Scale

The Glasgow Coma Scale (GCS) is a neurological scale which aims to give a reliable and objective way of recording the state of a person's consciousness. The GCS should be completed if you are unable to complete a CNS with a patient due to a decreased level of consciousness.

Directions on how to complete the GCS can be found [here](#)

#### Complete a swallowing screen (e.g. ToRBSST)

- Conduct the swallowing screen (e.g. ToRBSST) **ONLY IF TRAINED**; If not trained, contact a Speech Language Pathologist (S-LP).
- The swallowing screen should take place before any oral medication, nutrition or hydration is administered.
- Patients will remain NPO until screen is completed and passed.

#### Ensure that you are keeping patients, family members/caregivers (as appropriate) apprised of all aspects of care and are providing any necessary education.

For a list of severe complications and other complications after stroke, click [here](#)

**Routine Assessments** (Adapted from: <http://www.swostroke.ca/acute-stroke-unit-orientation/>)

| Routine Assessments           | Nursing Monitoring and Treatment  |
|-------------------------------|---|
| Safety checklist              | <ul style="list-style-type: none"> <li>Complete <a href="#">safety checklist</a> at each encounter</li> </ul>   |
| Body temperature              | <ul style="list-style-type: none"> <li>Monitor body temperature regularly</li> <li>If elevated &gt; 37.5 Celsius, use treatments to reduce fever, consider underlying infection</li> </ul>  |
| Heart rate                    | <ul style="list-style-type: none"> <li>Follow parameters as set by physician/NP</li> </ul>  |
| Respiration rate              | <ul style="list-style-type: none"> <li>Follow parameters as set by physician/NP</li> </ul>  |
| Oxygen saturation             | <ul style="list-style-type: none"> <li>Oxygen saturation should be monitored with the use of pulse oximetry</li> <li>Follow parameters as set by physician/NP</li> </ul>  |
| Blood pressure                | <ul style="list-style-type: none"> <li>Monitor blood pressure and be aware of the acceptable blood pressure parameters for individual patients</li> </ul>   |
| Blood glucose                 | <ul style="list-style-type: none"> <li>Monitor blood glucose levels</li> </ul>  |
| Pupils                        | <ul style="list-style-type: none"> <li>Subtle neurological changes, such as changes in pupil shape, reactivity &amp; size may indicate rising intracranial pressure</li> <li>Record the size of the pupils in mm using the pupil scale prior to the application of the light stimulus. Indicate the reaction of pupils as either:<br/> <ul style="list-style-type: none"> <li>+ = Brisk Reaction    S = Sluggish    – = No Reaction</li> <li>If the eyes are closed due to swelling, record “C”</li> </ul> </li> </ul> <p><b>*it is critical to report a change in either pupil size, shape or reactivity</b></p> |
| Hemiplegic shoulder           | <ul style="list-style-type: none"> <li>Subluxation of hemiplegic shoulder may result in a pain syndrome and/or soft tissue damage</li> <li>Ensure proper positioning of hemiplegic arm to maintain neutral position (e.g., use pillows in bed, a lap tray in chair, and a sling with standing)</li> </ul>   |
| Positioning and transfers     | <ul style="list-style-type: none"> <li>Mobilize early if safe to do so (consider medical stability, ability to follow instructions, strength, etc.)</li> <li>Positioning: Support the hemiplegic side (e.g. pillow under affected arm when sitting upright)</li> <li>DO NOT pull on the hemiplegic arm</li> <li>Consult Occupational Therapist (OT) and Physiotherapist (PT) for further tips on transfers, positioning and mobility</li> </ul>   |
| Skin breakdown and wound care | <ul style="list-style-type: none"> <li>Complete Braden Skin Assessment</li> <li>Mobilize early, frequent position changes</li> <li>If immobile consider pressure relief mattress, promote early and appropriate nutrition</li> </ul>  |
| Pain                          | <ul style="list-style-type: none"> <li>Pain assessments should be performed regularly using an <a href="#">aphasia friendly pain scale</a> (see “Communication” below for aphasia definition)</li> <li>Patient repositioning is important for pain</li> </ul>   |

| Routine Assessments | Nursing Monitoring and Treatment  |
|---------------------|---|
| Bowel and bladder   | <ul style="list-style-type: none"> <li>• Constipation and incontinence are common after stroke, especially if the patient is not able to mobilize independently. Enteral feeding may cause constipation or diarrhea</li> <li>• Use of indwelling catheters should be avoided (unless required for close fluid balance monitoring)</li> <li>• Implement toileting routine</li> </ul>   |
| Nutrition/Hydration | <ul style="list-style-type: none"> <li>• Patients with dysphagia, eating a modified diet or receiving enteral feeding are at risk of aspiration pneumonia</li> <li>• If symptoms of aspiration present (e.g., coughing after eating/drinking, etc.), keep patient NPO, use IV hydration, and find alternate routes for medications</li> <li>• Some patients may be silent aspirators and have no overt signs</li> <li>• Consult with S-LP for tips on diet texture and feeding strategies</li> <li>• Consult with Registered Dietitian (RD) for nutritional intake</li> </ul>   |
| Oral care           | <ul style="list-style-type: none"> <li>• Poor oral care results in bacterial colonization in the mouth and higher risk of aspiration pneumonia</li> <li>• Ensure an oral care routine, even if patient is NPO</li> <li>• Complete Oral Health Assessment Tool (OHAT)</li> </ul>   |
| Cognition           | <ul style="list-style-type: none"> <li>• Screen for delirium using a tool such as the Confusion Assessment Method</li> <li>• Assess orientation (person, place, time)</li> <li>• Consult OT for more detailed cognitive assessment</li> </ul>   |
| Falls               | <ul style="list-style-type: none"> <li>• Ensure appropriate falls prevention strategies in place (i.e. use of bed rails, bed in lowest position, call bell in reach) – Refer to <a href="#">safety checklist</a></li> </ul>   |
| Communication       | <p>Are any of the following conditions present?</p> <ul style="list-style-type: none"> <li>▪ Aphasia (disorder that affects your ability to speak, read, write and listen) <ul style="list-style-type: none"> <li>- Receptive (saying words that don't make sense)</li> <li>- Expressive (difficulty forming and understanding complete sentences)</li> <li>- Global (difficulty forming and understanding words and sentences)</li> </ul> </li> <li>▪ Apraxia (difficulty initiating and executing voluntary movement patterns necessary to produce speech)</li> <li>▪ Dysarthria (speech disorder that is characterized by poor articulation, respiration, and/or phonation. This includes slurred, slow, effortful, and rhythmically abnormal speech)</li> </ul> <p>Consult S-LP for strategies on how to communicate with a patient with communication difficulties</p> |
| Perception          | <ul style="list-style-type: none"> <li>• Patient may present with inattention to one side of their body or space</li> <li>• Ensure call bell and room set-up is on the unaffected side</li> <li>• Ensure you approach and speak to the patient on the unaffected side</li> </ul>  |
| Sleep Apnea         | <ul style="list-style-type: none"> <li>• Nurse should monitor patients for potential signs and risk factors for sleep</li> </ul>  |

| Routine Assessments | Nursing Monitoring and Treatment   |
|---------------------|--|
|                     | apnea, including: <ul style="list-style-type: none"> <li>- Snoring, tiredness, pauses in breathing when sleeping, hypertension, large neck circumference</li> <li>• If you observe any of the above, speak to the physician</li> </ul> |

## Discharge Planning

**Discharge planning should include the interprofessional team and the patient and caregiver/family**

- If the discharge plan is for inpatient rehabilitation, complete the E-Stroke Rehab Referral application as soon as patient is deemed rehab ready.

If you have access to the online E-Stroke referral system:

- Complete Sections 5a/5b: Health Assessment/Safety and Special Needs
- If you are registered on E-Stroke, click [here](#) for instructions on how to input the information into E-Stroke

If you DO NOT have access to the online E-Stroke referral system:

- Ask a member of the interprofessional team with access to print a copy of the form and to assist with inputting the information in the electronic system.
  - [Sections 5a/5b: Health Assessment/Safety and Special Needs](#)