

Protected Acute Stroke Protocol for Patients with Suspected or Confirmed COVID-19 April 2, 2020

Suspected/Query COVID-19 Includes Acute Stroke Protocol Patients Who Were NOT Able to be Screened for COVID-19 by Paramedics or Hospital Providers (e.g., due to aphasia or cognitive issues).

• Number of Protected Acute Stroke Protocol (ASP) Team = <u>1 physician (Attending Neurologist or Resident)</u> and 1 ED RN

A. Transfer to a Stroke Centre

1. Paramedics initiate pre-notification to ED ASAP & inform KGH ED of COVID-19 status. If hospital transfer, hospital to call KGH ED at 7003 and inform them of COVID-19.



B. ED

- 1. ED contacts Switchboard re Protected Acute Stroke Protocol (suspected or confirmed COVID-19)
- 2. Switchboard contacts ASP list with added communication of "Protected" Acute Stroke Protocol.
- 3. ED Charge RN assigns 1 RN. Neurologist to decide if Resident will perform assessment.
- 4. Upon arrival, patient is registered including COVID-19 flag; notify CT of patient arrival in ED, include if COVID-19 precautions and/or unstable.
- 5. Patient brought to area in Section A behind the RED tape by paramedics for brief assessment.
- 6. Protected ASP team dons PPE as per IPAC policy before assessing or placing IVs/+/- bloodwork: Mask, Face Shield, Gown & Gloves. If PPE not located in nearby cart, ask Charge RN or ED RN.
 - a. <u>If patient requires intubation or is unstable, patient is placed in Isolated Room in Section A. If intubation is needed, Critical Care/ED dons N95, bouffant, face shield with drape, gown, & gloves; Neurology will not be involved with intubation of cases.</u>
 - b. <u>If patient is intubated, Kidd 2 ICU intensivist and Charge RN are notified. If after hours</u> and patient is unstable, notify ACO.
- 7. Rapid handover from paramedics to Protected ASP team (if Walk-In report given by triage RN).
- 8. Protected ASP physician conducts rapid assessment using NIHSS or Simplified Stroke Exam as described in Appendix 1. Protected ASP ED nurse establishes 2 IVs unless previously started +/-bloodwork.
- 9. Place yellow procedure mask & clean sheet on patient before transport to CT. Mask kept on.
- 10. Protected ASP ED nurse to remove gown & gloves and obtain tPA from Omnicell and equipment including stretcher, pump, monitor, & ASP package and will go ahead opening doors. Protected ASP physician + paramedic to keep PPE on & follow with patient. If there is a "clean runner" present (e.g., Resident), they can open doors.
- 11. Important to have someone call CT before leaving to ensure they are ready.



C. Imaging

- 1. CT console room should be kept clear as possible of extra staff.
- 2. 1 CT tech dons PPE. Protected ASP physician, paramedic & CT tech place patient on CT table. Paramedic/physician change monitor leads. CT Tech hooks up injector for contrast.
- 3. CT Tech, physician & paramedic remove gown & gloves in CT ante-room laundry basket (back into closed door to open door). Paramedic gives report to "clean" nurse.
- 4. Non -Contrast CT and +/- CT Perfusion using RAPID.



5. If tPA to be given, Protected ASP ED nurse or ASP physician prepares bolus. Protected ASP physician or Resident dons gown and gloves & administers bolus. Nurse prepares infusion then dons gown & gloves and starts infusion. Patient is transferred to stretcher by Protected ASP physician or resident & nurse and moved into hallway. Physician removes gown & gloves and reviews rest of CT images either in CT console room or via cell phone.

If tPA is not given, CT Tech & Protected ASP ED nurse don gown & gloves to transfer patient to stretcher while physician remains "clean."



D. Transfer from Imaging

- Notify receiving location prior to transfer.
- Patient to be transferred by Protected ASP ED nurse who keeps PPE on. Protected ASP physician or Resident remains "clean" and opens doors.
 - If IV tPA only: patient will be transferred back to ED Section A to await D4ICU bed unless bed is ready. If intubated, aim to transfer patient to K2ICU ASAP with RT, Critical Care RN & Porter.
 - If <u>NO</u> EVT or tPA: patient will be transferred back to ED to Section A or C (if stable) to await bed assignment by the Bed Allocation Team.
 - If EVT, patient transfers to IVR when IVR ready (at times may need to go to ED Section A if IVR not ready-after hours).



E. EVT Procedure in IVR

- IVR Team assisting with IVR procedure dons PPE. Protected ASP ED nurse assists with transferring patient to IVR procedure bed & provides report. ASP ED nurse can then leave removing gown & gloves. Protected ASP physician or resident dons lead apron, gown and gloves to assist if necessary.
- 2. Patient is prepped-needs clean gown. Insert Foley Catheter if needed.
- EVT procedure completed (If patient becomes unstable apply 100% oxygen with non-rebreather mask, activate code 99 anesthesia. Positive pressure ventilation should be avoided unless absolutely required (then do hand hygiene, don airborne PPE on before bagging patient) (also applies in DI)).
- 4. IVR team transfers patient to D4ICU or K2ICU stretcher/bed.
- Critical care RN & ASP physician or porter transferring patient to Critical Care don PPE. Designate
 1 clean staff to carry patient chart, open doors, & to touch elevator button-Kidd/Davies Elevator
 3 or 4.

F. Post EVT Management

- 1. Patient requires care in D4ICU or K2ICU (ventilated cases) as soon as possible post EVT +/-tPA.
- 2. After intensive monitoring is no longer needed, patients are transferred to the COVID-19 Isolation Unit if COVID-19 positive as per the Bed Allocation Team.



Appendix 1

Simplified Stroke Examination

- 1. Impaired level of consciousness? Yes or No.
- 2. Gaze towards one side? Yes or No.
- 3. Sees hand waving on both the left and right side? Yes or No.
- 4. Able to raise arm to 45 degrees for 10 seconds without drift? Yes or No.
- 5. Able to straight leg raise with heel 6 to 12 inches off bed? Yes or No.
- 6. Speech impaired? Yes or No.
- 7. Feels tap on left shoulder? Yes or No.