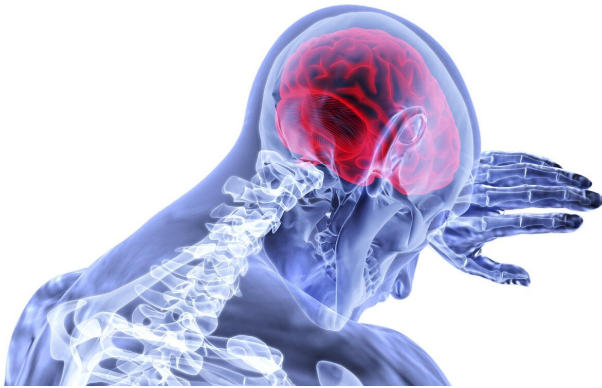


# Guidance for treating stroke patients during COVID-19 crisis developed

29 April 2020



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In an effort to mitigate the spread of COVID-19 and to optimize allocation of healthcare resources, researchers are improving ways to treat patients with acute large vessel occlusion strokes in a safe manner that also better protects health care workers.

Developed by a team from the Society of Vascular & Interventional Neurology (SVIN) and led by a Boston University School of Medicine (BUSM) researcher, the new guidance statement is divided into four phases: pre-hospital to the [emergency department](#), pre-thrombectomy procedure, thrombectomy intra-procedure and post-reperfusion therapy.

"Every opportunity and detail to recalibrate our acute neurological workflow to protect our frontline [health care workers](#), our families, our colleagues and our [patients](#) should be sought, implemented and adapted to a resource-constrained environment," explained corresponding author Thanh Nguyen, MD, professor of neurology, neurosurgery and radiology at BUSM and director of the neuroendovascular service at Boston Medical Center.

Among the recommendations:

- Screen every acute stroke patient for COVID-19 adhering to local EMS, emergency department (ED) protocols.
- Use of remote tele-stroke technology to obtain history and perform neurological examination, post reperfusion monitoring, if available.
- Minimize the number of people at an acute stroke or thrombectomy code: one person in protective equipment with patient, another at computer/phone to help coordinate care.
- Consider low-dose chest computerized tomography (CT) as the same time as head CT/CTA to facilitate COVID-19 diagnosis.
- Implement a "direct to the angiography suite" approach for stable transferred patients with stroke symptoms onset within 24 hours to minimize exposure to ED and CT personnel.
- Consider conscious sedation as first-line to protect anesthesiologists from exposure, and to protect patients from unnecessary intubation as well as conserving mechanical ventilator resources.
- If patients exhibit pulmonary symptoms, lower threshold to intubate patients in a controlled manner in a negative pressure room.
- Defer any tests that won't change management until the patient has ruled out for COVID-19.
- Consider repatriation of select patients back to primary stroke centers to recover after thrombectomy for hospitals overwhelmed with critical care or intensive care unit bed shortages. This can help maintain thrombectomy access.

According to the researchers, these new workflow applications are based on shared [best practices](#), consensus among academic and non-academic practicing vascular and interventional neurologists

and literature review, and could be adapted to the available resources of a local institution.

"The acute stroke patient is a vulnerable group to address because these patients often come emergently from the community with little information. Radical changes are necessary to optimize the safety of the providing team and our patients, limit unnecessary tests, conserve personal [protective equipment](#) (PPE) resources and mechanical ventilator usage," added David Liebeskind, MD, director of the UCLA Comprehensive Stroke Center and SVIN president.

Nguyen believes it is incumbent upon all of us to protect each other so that we are not unknowingly exposed or spread to our most vulnerable patients, while at the same time, providing optimal care, patient safety, and access to treatment for [stroke](#) patients. This guidance statement pertains to current practice and can change as new evidence arises.

This guidance statement appears online in the journal *Stroke*.

**More information:** Thanh N. Nguyen et al. Mechanical Thrombectomy in the Era of the COVID-19 Pandemic: Emergency Preparedness for Neuroscience Teams, *Stroke* (2020). [DOI: 10.1161/STROKEAHA.120.030100](#)

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