**Stroke CT/mCTA Imaging Protocol for Endovascular Treatment**

**Background:**

A key decision making component of Endovascular Treatment (EVT) is imaging selection with non-contrast CT (NCCT) and Multiphase Computed Tomography Angiography (mCTA) for acute stroke patients. However, clinical experts have identified a concern with timeliness for transfer of images for review by the EVT treatment teams. ENITS has been recommended as the viewing platform for the **CT/multiphase CTA protocol (CT/mCTA) in Ontario**. (Appendix A) ENITS is currently used for Telestroke consults, typically comprised of a CT head-thin slice with 100-200 images in total. Generally, studies of this magnitude are acquired and sent to the ENITS archive within 10 minutes or less.

Our goal is to ensure the imaging portion for EVT consultation is delivered to the consulting Neurologist (and related specialists) within the designated - not to exceed timeline of **15 minutes or less.**

**Recommended Implementation Planning Process**

1. Sites should contact ENITS to **schedule** a time to set up the system and test one in-bound exam using the CT/mCTA Protocol. Our work hours are 8 am- 4 pm.
2. Contact Mike Jewison ENITS Business Systems Analyst by eMail- mike.jewison@lhsc.on.ca and cc Help Desk (enits@lhsc.on.ca) or phone- 519-685-8500 ext. 72073
3. ENITS team will catalog the total time from receipt of the first acquired study image until the complete study is transferred to the ENITS database.
4. ENITS team will verify correct # of series and images were received from the site and in conjunction with the designated site contact. **Given the variability of network throughput, ENITS requests that the site send the updated protocol at mutually agreed upon timeframes.**
5. The ENITS team will catalog findings and provide them to EVT Imaging Task Group for evaluation and feedback.
6. Once the exam has been reviewed by a member of the EVT Imaging Task Group a confirmation email to Go-live will be sent to the site.
7. A follow-up process for sites that fall outside of the 15 minute threshold will be developed (if required) and communicated to the EVT Imaging Task Group.

**Training Materials**

Please visit the link below for ENITS Training Materials and Information

http://swodin.ca/content/ENITS

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2 Emergency Neuro Image Transfer System (ENITS) ENITS is connected to 101 Ontario hospital and approximately 350 modalities receiving greater than 250,000 exams annually. ENITS exams are time sensitive to support the emergency consultative process facilitated by CritiCall Ontario.
Appendix A

CT/mCTA Protocol Minimum Image Set for Initial Endovascular Treatment Consultation

Send the following images in this order:

1. NECT head (approx. 80 images)

2. CTA neck & brain axial 1.25-2mm images (200 images)

3. 5mm MIP Axial CTA (2nd phase of multiphase) (80 images)

4. 5mm MIP Axial CTA (3rd phase of multiphase) (80 images)

5. Cor MIP 5mm CTA neck & brain (110 images)

Total about = 560 images