

FastStroke

Provides optimized display settings and colorized views enabling a fast and efficient review of CT stroke workup images.

Clinical and Technical Background

Stroke is the 2nd leading cause of death globally¹. Studies suggest that early intervention in stroke can lead to improved patient outcomes with a greater number of patients functionally independent.

CT is commonly used in the diagnosis of acute stroke. Due to the urgent nature of the disease, an improved workflow has become a critical component of acute stroke care. There is an increasing need for faster post-processing workflow methods to reduce the time to diagnose, which may enable a faster time to treatment.

Recently there have been a number of clinical trials in the area of treating ischemic stroke with proximal cerebral artery occlusion that have called for new, faster workflows for the diagnosis of ischemic stroke patients.

Overview

FastStroke provides a comprehensive workflow solution for reviewing stroke workup images with exceptional flexibility, simplicity and performance. It is a streamlined approach that smartly adapts to your scan practices and allows you to review and post-process all your images simultaneously.

The application provides quick loading and clinically relevant organization of all the scanned series, which are synchronized and displayed in a manner that enables you to review, efficiently and with high confidence.

FastStroke also provides ColorViz to aid in the visualization of the timing of collateral vessels using the mCTA series.

FastStroke has full integration with CT Perfusion 4D to provide automatic neuro perfusion analysis as part of the workflow.

Highlights

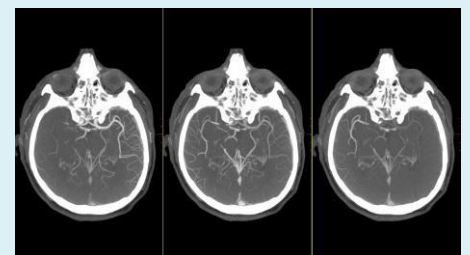
Easy and intuitive workflow to quickly access all series

Flexible layouts that automatically adapt to display all acquired phases within the mCTA

Intelligently identifies series and assigns it to a logical order in the workflow

ColorViz provides visualization of contrast arrival from mCTA in a color coded single view

Fully integrated with CT Perfusion 4D



Visit us:

www3.gehealthcare.com/en/products/categories/advanced_visualization/computed_tomography_imaging_software



Features

- Load multiple series of a CT stroke workup simultaneously.
- Intelligent loading identifies the series type and applies the appropriate layout or protocol
- Automatic synchronization of all phases from multiphase CTA (mCTA).
- Smart layouts automatically adjust to display up to 6 mCTA phases simultaneously.
- The CTA images are automatically displayed in a thick 2D MIP at optimized WW/WL settings.
- ColorViz provides an intelligent color coded display enabling you easy and confident identification of vascular enhancement timing, including collaterals, in a single composite view.
- Easy and intuitive workflow to quickly move through all the acquired series.
- Fully integrated with Neuro Perfusion automated processing. (CT Perfusion 4D Neuro/Multi-Organ and FastStroke licenses are sold separately)

- Only use primary original recons to avoid time loss due to images reconstructing or networking.
- Export color coded images as SCPT to be sent to PACS or printed
- Access to all Volume Viewer tools
- Create layouts to match your reading style.

System Requirements

Minimum platform release:

- AW Workstations VolumeShare 7 and AW Server 3.2 or later.
- Color Monitors
- Single or Dual Display Monitors for AW Server in landscape or portrait orientations

Compatible hardware:

- Z800, Z820, Z440 (and later)
- AW Server 3.1 and above (recommended monitor resolution is up too dual 2MP (1600 x 1200) or a single 3MP (1536 x 2048)

Indications for Use

FastStroke is a CT image analysis software package that assists in the analysis and visualization of CT data derived from DICOM 3.0 compliant CT scans. FastStroke is intended for the purpose of displaying vasculature of the head and neck at different time points of enhancement.

The software will assist the user by providing optimized display settings to enable fast review of the images in synchronized formats, aligning the display of the images to the order of the scans and linking together multiple groups of scans. In addition, the software fuses the vascular information from different time points into a single colorized view. This multiphase information can aid the physician in visualizing the presence or absence of collateral vessels in the brain. Collateral vessel information may aid the physician in the evaluation of stroke patients.

Regulatory Compliance This product complies with the European CE marking regulation following Medical Devices Directive: Directive 93/42/EEC.



¹ Mozaffarian D, Benjamin EJ, Go AS, Arnett DK, Blaha MJ, Cushman M, Das SR, de Ferranti S, Després J-P, Fullerton HJ, Howard VJ, Huffman MD, Isasi CR, Jiménez MC, Judd SE, Kissela BM, Lichtman JH, Lisabeth LD, Liu S, Mackey RH, Magid DJ, McGuire DK, Mohler ER III, Moy CS, Muntner P, Mussolino ME, Nasir K, Neumar RW, Nichol G, Palaniappan L, Pandey DK, Reeves MJ, Rodriguez CJ, Rosamond W, Sorlie PD, Stein J, Towfighi A, Turan TN, Virani SS, Woo D, Yeh RW, Turner MB; on behalf of the American Heart Association Statistics Committee and Stroke Statistics Subcommittee. Heart disease and stroke statistics—2016 update: a report from the American Heart Association. *Circulation*. 2016;133:000-000.