CINA-LVO

AI powered Solution for Large Vessel Occlusion

Avicenna.ai
empowering radiology with AI

CE Marked

FDA Cleared

Designed with a focus on patient management, CINA is a medical device that uses a suite of advanced algoritms to accelerate and improve the therapeutic decision-making process. Fully automated and seamlessly integrated into the radiologist's existing workflow, CINA helps healthcare professionals to detect and prioritize life-threatening pathologies from CT scan.

- Decrease time to treatment
- Improve patient outcomes
- Reduce error rate & misdiagnosis

LARGE VESSEL OCCLUSION

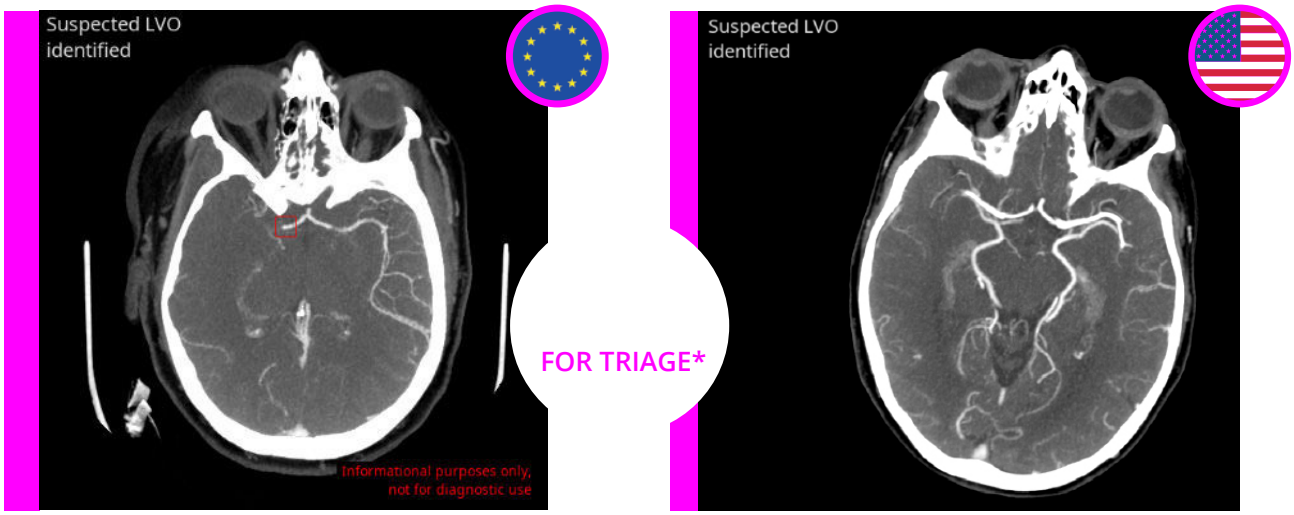
- **2 million neurons** lost for every minute of untreated LVO
- **450%** increased odds of death
- **Up to 30%** of acute ischemic strokes

The Avicenna software solution provides an AI-assisted preliminary review of all exams, helping to prioritize patients with positive findings and optimize our clinical workflow. In addition, the extra «set of eyes» provided by the AI software improves our overall confidence and efficiency.

Daniel Chow, MD - Radiologist and Director of UCI Health Center for AI in Diagnostic Medicine

Ischemic stroke due to a large vessel occlusion (LVO) accounts for around 80% of all stroke. Early diagnosis of LVO is critically important to realize the benefits of patient treatment.

CINA-LVO is a real time triage tool that helps healthcare providers to quickly flag suspected Large Vessel Occlusion on CT angiography. By prioritizing those cases in the worklist, it drastically reduces turnaround time for ischemic stroke patients.



*The time informed is based on application processing time. The overall time to deliver the information will depend on the vendor, hospital network, and ultimately equipment used.

Extensive Training Process

The training of the CINA-LVO algorithm has been elaborated on more than 4,000 cases with a wide range of data (image, qualities, scanner makes, protocols, LVO characteristics, etc.).

Robust Validation System

CINA-LVO detection capability was validated using data from 476 cases conducted across 40 US States.

The tested dataset contained a sufficient numbers of cases from important cohorts in terms of imaging acquisitions, patient groups, and LVO characteristics.

Three US board-certified expert neuroradiologists proceeded to the visual assessment of all datasets.

Avicenna.AI alerts specialists 65 minutes earlier than the standard of care average time to notification reported in literature for LVO's diagnosed with CT Angiography.

CINA, medical images analysis software, is a medical device manufactured Avicenna.AI. This medical device is reserved for health professionals. This software has been designed and manufactured according to the EN ISO 13485 Quality Management System. Read the instructions in the notice carefully before any use.
Instructions for Use are available on https://avicenna.ai/
Manufacturer: Avicenna.AI (France).
Medical devices Class I following European Medical Device Directive 93/42/CEE.
Medical devices Class II following the Code of Federal Regulations of the United States of America 21CFR on Medical Devices.

Avicenna.AI is leading the way to the next generation of healthcare with its medical diagnostic AI solutions focused on medical imaging and life-threatening diseases. Designed around patient management, automatic and plug-n-play, our applications provide solutions to global clinical challenges.

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For further information, please contact us: **contact@avicenna.ai**

https://avicenna.ai