

# CINA-ASPECTS

Automatic ASPECT Score Application



Designed with a focus on patient management, CINA is a medical device that uses a suite of advanced algorithms 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.



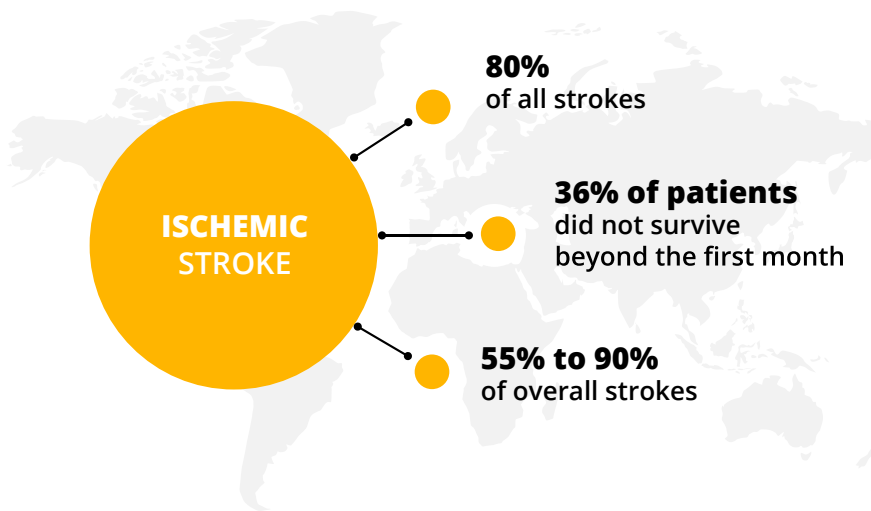
Decrease time to treatment



Improve patient outcomes



Reduce error rate & misdiagnosis



When dealing with a stroke, time is of the essence and being able to prioritize effectively is critical to saving lives and improving outcomes. Not only does CINA help radiologists to identify pathologies quickly, but also to highlight those that require the most urgent care.”

**Peter Chang, MD** - Radiologist and Director of UCI Health Center for AI in Diagnostic Medicine

CINA-ASPECTS, an AI-based automatic tool, for the assessment of acute ischemic stroke. ASPECTS is a topographic scoring system that divides the brain territory into 10 areas of interest. For each of the defined points, a single point is subtracted for an area of early ischemic change.

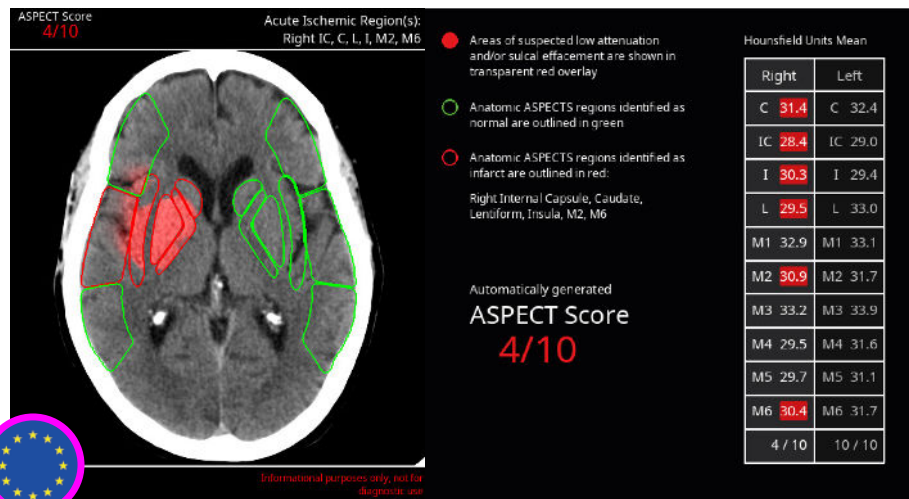
Beyond providing the ASPECT Score, CINA-ASPECTS provides:

Heat map indicating the probability of hypodensity and/or sulcal effacement

Outline and display of the infarcted regions

Reoriented and resliced NCCT

Summary chart with mean Hounsfield Unit (HU) per region



## Extensive Training Process

The training of the CINA-ASPECTS algorithm has been elaborated with a wide range of data (image, qualities, scanner makes, protocols, ischemic stroke characteristics, etc.).

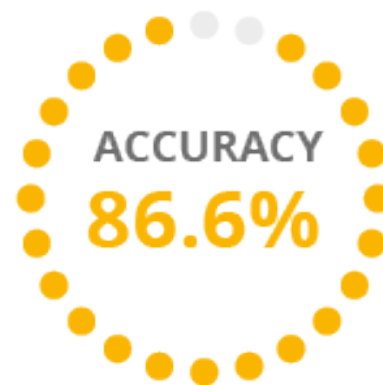
## Robust Validation System

CINA-ASPECTS is indicated for evaluation of patients presenting with known MCA or ICA occlusion, for evaluation of extent of disease.

CINA-ASPECTS detection capability was validated using data from 139 cases conducted in 16 facilities in the United States and Japan.

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

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



CINA ASPECTS, 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.

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.



For further information, please contact us: [contact@avicenna.ai](mailto:contact@avicenna.ai)

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