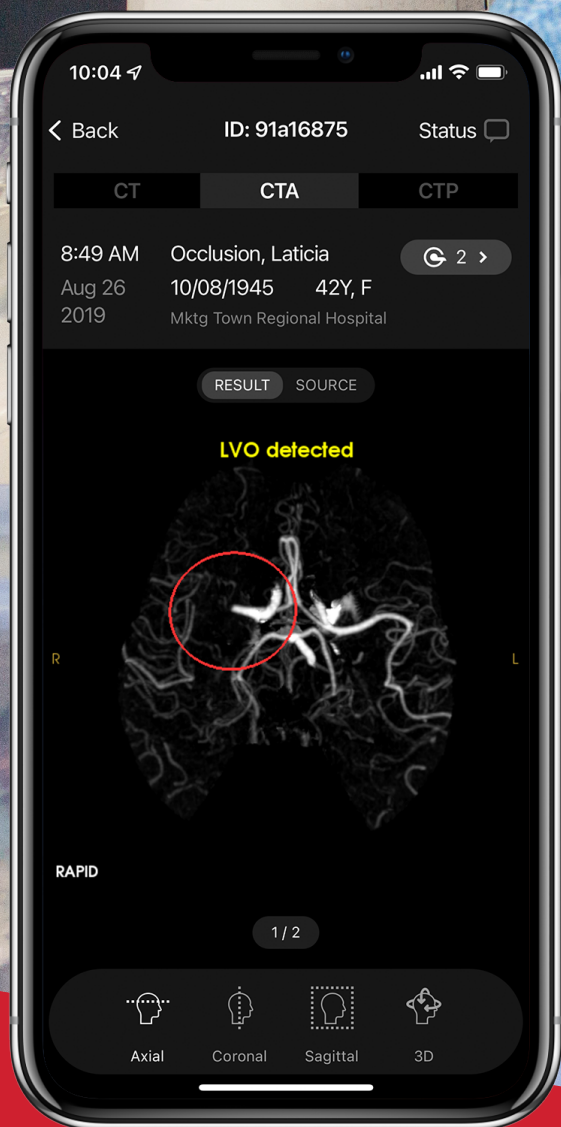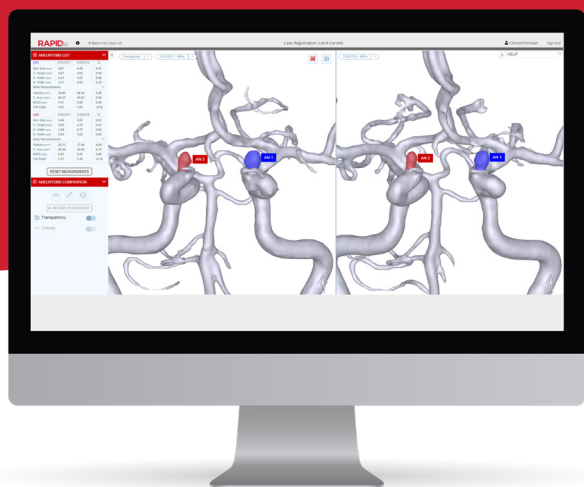# RAPIDAI

The Next Evolution in Clinical Decision Making and Patient Workflow

rapidai.com

RAPIDAI

RapidAI® enables neurovascular clinical teams to push the boundaries of care, reducing time to treatment and improving patient outcomes. We empower physicians to make faster more accurate diagnostic, treatment and transfer decisions. We connect care teams for more streamlined and improved communication and coordination of the patient journey.

Rapid Aneurysm

Rapid Aneurysm is an FDA-cleared imaging platform for cerebral aneurysm management. Helping physicians save time, improve patient care, and increase revenue by automating the process of finding, tracking, and proactively treating aneurysms.

» Converts 2D images to 3D vasculature models to aid in the visibility of aneurysms

» Highlights potential aneurysms, and calculates and records clinically relevant measurements

» Provides high-resolution measurement tools to help clinicians more precisely measure and visualize morphological changes

» Shows changes with side-by-side comparisons, and highlights changes with overlay comparisons

» Automatically calculates changes in aneurysm dimensions

Rapid ICH

Rapid ICH helps hospitals streamline treatment decision-making through the fast, automated identification of suspected intracranial hemorrhage in NCCT scans.

» Delivers results in under three minutes

» Identifies suspected hemorrhage with a sensitivity of 95% and a specificity of 94%, excluding hemorrhagic transformations (HTs)

» Automatically identifies suspected hemorrhage subtypes including IPH, IVH, SDH, and SAH

The Gold Standard for Cerebrovascular Imaging

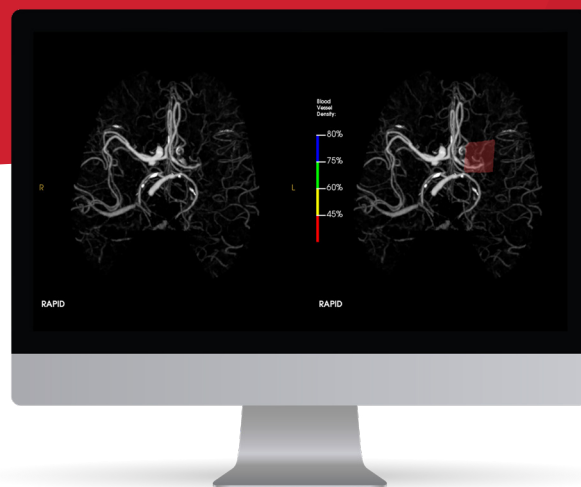**2M+**
SCANS

1,800+
HOSPITALS

100+
COUNTRIES

14+
CLINICAL TRIALS

Rapid ASPECTS

In minutes from receipt of a scan, Rapid ASPECTS delivers a standardized ASPECT score to help stroke teams quickly assess patient eligibility for thrombectomy. It is the first and only neuroimaging solution shown to improve reader diagnosis under the FDA's CADx classification.

» Standardized definition of ASPECT regions

» Fast identification of regions of asymmetry through a classification system using the latest machine learning techniques

» Automatically generated measurements of ischemic change

» Standardized Rapid ASPECTS results that increase reader reliability and reduce intrareader variability, especially among non-expert readers

Rapid CTA

Rapid CTA helps stroke teams to quickly identify and assess large vessel occlusion (LVO) cases.

» Automatically identifies asymmetries in blood vessel density

» Removes bone and non-vascular tissue for clear viewing of cerebral blood vessels on MIP images

» Creates 3D vascular reconstructions that can be automatically or manually rotated

» LVO Detection and Localization

  – The only automated imaging product indicated for localization of a detected LVO

  – Detects LVOs with a sensitivity of 97% and specificity of 96%

  – Results outline the detected LVO for fast, easy identification of the LVO location

Rapid CTP

The only clinically validated software with an FDA indication to aid in the selection of patients for acute stroke therapy, Rapid CTP enables faster clinical decisions by helping physicians quickly assess salvageable brain tissue and identify patients who are likely to benefit from interventional thrombectomy.
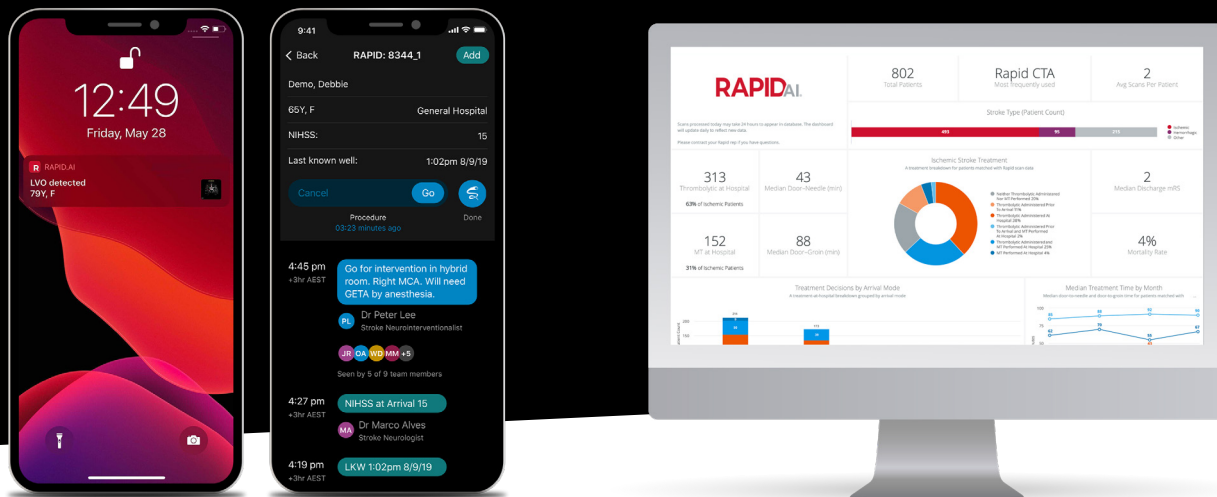
» Comparison of a patient's cerebral blood flow (CBF) to Tmax

» Identification of areas of hypodensity

» Identification of milder or more severe delays of contrast arrival time

» Customizable modeling of different thresholds for blood flow reductions

» Flexible cerebral blood volume (CBV) modeling

» Co-registered views of the baseline CT perfusion scan, CBV, CBF, mean transit time (MTT) and Tmax

» Graphs showing translational and rotational movement on the X, Y and Z axis

» Arterial input (AIF) and venous output (VOF) curve

Rapid MRI

Rapid MRI is clinically proven to help physicians assess salvageable brain tissue through the delivery of quantified and color-coded MR diffusion and perfusion maps that identify brain regions with reduced ADC and prolonged Tmax.

» Comparison of apparent diffusion coefficient (ADC) and delays in contrast arrival (Tmax)

» Automatic calculation of Hypoperfusion Intensity Ratio (HIR)

» Co-registered view of diffusion-weighted images with MR perfusion results

» Arterial input (AIF) and venous output (VOF) curve

Optimize Workflow & Operational Efficiency

Rapid Workflow for Stroke

Within minutes from receipt of a scan, Rapid Workflow for Stroke notifies physicians of stroke cases and provides anytime, anywhere access to preview critical patient images and Rapid results via a mobile device, desktop or laptop. In-app communication features allow stroke teams to quickly align on patient status—helping to reduce time to treatment and improve patient outcomes.

» Preview critical patient images from anywhere in minutes
 – Full-screen and zoom functionality
 – Ability to rotate images for axial, coronal, and sagittal views
 – Convenient windowing presets: intracranial, skull, brain, bone, stroke, subdural and bleed

» HIPAA and GDPR-compliant communication features
 – Pre-scan notifications to notify teams and coordinate care for incoming suspected stroke patients
 – In-app messaging and real-time, customizable notifications of new cases and messages

» Easy entry of key clinical data including Last Known Well, tPA initiated, NIHSS and more

» "Go" activiation feature for quicker notification and coordination of stroke teams for critical cases

» Easily view, organize and track cases from multiple sites in one location

» Case Summary feature for post-treatment administrative analysis and EMS feedback and education

RapidAI Insights

Combining operational, clinical, and imaging performance data, RapidAI Insights offers a comprehensive suite of reports to deliver deep insights on patient care decisions, treatment effectiveness, and Rapid platform usage quality in helping to quickly diagnose and treat stroke patients—leading to faster intervention and improved patient outcomes.

» **Utilization Report:** Offers data on Rapid utilization, scan details and demographics, and scan quality

» **Workflow & Communication Report:** Analysis of Rapid workflow product usage to measure impact on time to treatment and identify workflow trends

» **User Access Report:** Provides IT teams with information on Rapid mobile and web apps access and usage for security, monitoring and compliance auditing

» **Patient Journey and Outcomes Report:** Includes patient journey and clinical outcomes to help drive stroke protocol improvements

» **Executive Report:** Information-rich summary of site-specific information across systems to monitor RapidAI system adoption, analyze stroke care, reduce stroke-related costs, and drive better clinical outcomes

Why RapidAI

Unparalleled Artificial Intelligence

Based on the largest and broadest set of brain scans of any advanced imaging product, the artificial intelligence in the Rapid® platform leverages data collected from over two million scans from more than 1,800 hospitals in 100 countries to create unparalleled results.

Data Security and Compliance

RapidAI has a strong commitment to secure and compliant data management and is HIPAA compliant, GDPR compliant, and ISO 13485, ISO 27001, and ISO 27701 certified. The Rapid platform has been developed using the National Institute of Standards and Technology (NIST) cybersecurity framework.

Works in Any Hospital Environment

RapidAI products are compatible with various scanners and PACS based on modality, and work in any hospital environment, and across referral networks.

» Acute Stroke Ready Hospitals (ASRH)
» Primary Stroke Centers (PSC)
» Comprehensive Stroke Centers (CSC)
» Mobile Stroke Units (MSU)
» Angio Suites

Clinically Validated and Proven

RapidAI technology has been validated in over 14 multi-site clinical trials including SWIFT PRIME & EXTEND IA (early window), and DEFUSE 3, DAWN, and EXTEND (late window) studies. It is being utilized in several other clinical trials including CHARM (Biogen) and TIMELESS (Genentech).

We continue to actively support innovative cerebrovascular research that helps move the stroke field forward by shattering barriers in stroke diagnosis and treatment.

Comprehensive Training & Education

We're committed to ensuring our customers' success using our products. All RapidAI customers receive free access to Rapid U, a comprehensive curriculum of role-based courses tailored to each member of the stroke team. A reference area expands Rapid U offerings by providing additional self-guided tutorials, educational videos, publications and more.

World-class Service and Support

Operational excellence isn't something that happens overnight. With over 1,800 installations worldwide, we're well versed in how to get customers up and running quickly and are committed to ensuring their ongoing success.

» Installation in as little as one week
» 24/7/365 support
» Customized, live and online training for fast onboarding of new users
» Regular product updates and improvements
» Customer reports and insights

RAPIDAI

Discover what RapidAI can do for you—Talk with an Expert
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