

# DETECT ABNORMALITIES FASTER THAN EVER

## Neural Assist: AI Device for Brain Pathology Detection

Neural Assist is a deep-learning-based software device that uses the power of artificial intelligence (AI) to analyze head CT scans. The algorithm is trained with a data set of more than 20,000 clinically curated studies and detects bleeds upto 93% accuracy. The system accepts non-contrast adult head CT scan DICOM files as an input and provides a priority flag indicating critical scans as output. It generates a preliminary report, ready for refinement by the radiologist, streamlining the reporting process for maximum efficiency.

### INTEGRATION

- RIS
- PACS
- AI marketplace or distribution platform

### DEPLOYMENT

- On-Premise
- Cloud based
- Hybrid Solution

**Subspecialty:** Neuro

**Modality:** Computed Tomography (CT)

**Pathologies targeted:** Intracranial Hemorrhage, Cranial Fracture, Midline shift and Dense MCA

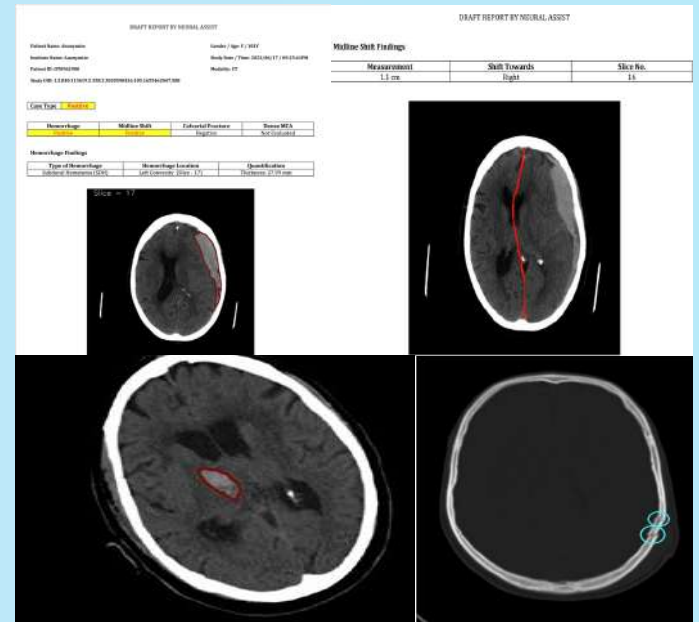
**Input:** Non Contrast Head CT scans (NCCT)

**Input format:** DICOM

**Processing time:** 1 - 10mins

**Output:** Triage notification, worklist highlight, binary assessment of presence or absence, segmentation overlay, draft radiology report

**Output format:** DOC,PDF, DICOM secondary capture, JSON, HL7, DICOM Structured Report (SR)



#### Detection

Brain pathology detection, worklist prioritization, report generation, traumatic brain injury tracking,



#### Suggestion

Adapting worklist order, flagging acute findings



#### Support

Interactive decision support (shows abnormalities/results only on demand), report suggestion

INDIA | UAE | USA

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Council Khata 180/63 Vishweshwariah,  
Whitefield Main Road, Industrial Area,  
Hoodi, Bengaluru, Karnataka,  
India 560 018  
☎ +91 804 926 1100

**Branch Office**

DSO-HQ-A1-108-3,  
Dubai Silicon Oasis,  
Dubai, UAE

© Telerad Tech U.S.A., Inc.

22 Llanfair Road Unit 6  
Ardmore, PA, USA  
☎ +1 (908) 331 2279