



Empower
emergency
physicians



Deep01
Artificial Intelligence



DeepCT

ICH Identification,
Location, and Notification



DeepMLS

Midline Shift Identification
and Measurement



AI Refer

AI-Powered Emergency
Referral Network

About

Deep01 focuses on developing advanced AI-based SaMD (Software as a Medical Device) for decision support that aims to assist physicians to expedite patient treatment.

Deep01 is empowering emergency physicians with our innovative AI solutions.

Partners

Deep01 has well established hospital partners both domestically and internationally, including the U.S. medical group, AHMC, and 1/3 of Taiwan's medical centers. Deep01 also works closely with industrial leaders, such as NVIDIA, Microsoft, and Amazon.



Team

The team members of Deep01 are from Harvard University, Cambridge University, Carnegie Mellon University, National Taiwan University, and Tsinghua University with profound international work experience and from senior physicians in the U.S. and Taiwan.



DeepCT

– ICH Identification, Location, and Notification

DeepCT identifies intracranial hemorrhage in non-contrast CT scans as a 24/7 peer view to help clinicians.

DeepCT ICH solution is not only to identify acute intracranial hemorrhage to decrease misdiagnosis but also to prioritize and notify urgent cases to increase medical quality. It alleviates time pressure on emergency physicians, radiologists, and neurosurgeons to react to circumstances and expedites them with faster and better decisions to save more lives.



Interpretation in 30 seconds!



Suitable for all subtypes of intracranial hemorrhage



Real-time notification for urgent cases



Speed up the triage of ER



Measurement for volume of hemorrhage



High compatibility with all CT scanners



Prospective Case Study

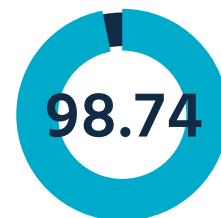
Data from prospective report in Kaohsiung Veterans General Hospital in July 2020.



Specificity



Sensitivity



Accuracy

Compatible with all CT scanners

	Sensitivity (95% CI)	Specificity (95% CI)
GE (n=130)	98.46% (91.78% - 99.73%)	96.92% (89.45% - 99.15%)
Philips (n=130)	93.85% (85.22% - 97.58%)	93.85% (85.22% - 97.58%)
Siemens (n=130)	92.31% (83.23% - 96.67%)	96.92% (89.45% - 99.15%)
Canon (n=130)	95.38% (87.28% - 98.42%)	90.77% (81.29% - 95.70%)
Overall (n=520)	95.00% (91.63% - 97.06%)	94.23% (90.70% - 96.47%)

FDA

The First Deep Learning FDA Clearance in Asia-Pacific

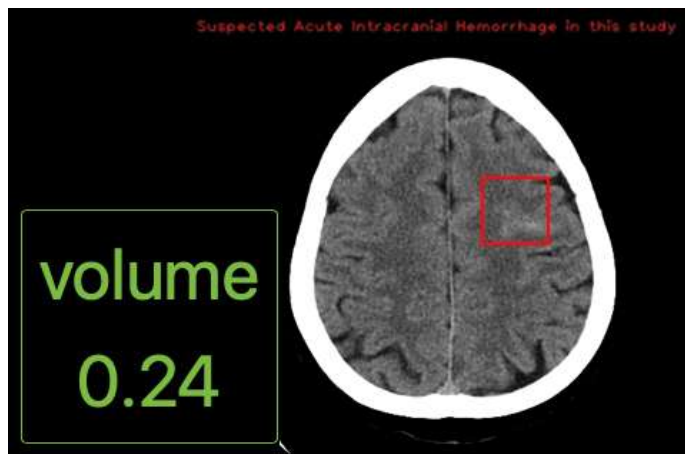
U.S. FDA cleared

Taiwan FDA cleared

Function



■ Segmentation



■ Identification & Measurement of Volume

Data from different sites, different countries

Statistic	Sensitivity (95% CI)	Specificity (95% CI)
US-GMC (n=130)	96.92% (89.45% - 99.15%)	92.31% (83.23%-96.67%)
TW-NTUH (n=130)	95.38% (87.28% - 98.42%)	98.46% (91.78%-99.73%)
Overall (n=260)	96.15% (93.06% - 97.89%)	95.38% (92.66%-97.67%)

* Validation of a deep algorithm to detect acute intracranial hemorrhage on non-contrast brain CT. Paper presented at 2nd International Conference of AI in Healthcare (ICAIH) July 19-21, 2019, Los Angeles, CA.

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