

e-ASPECTS software is non-inferior to neuroradiologist
computed tomography scans of acute ischemic stroke p

International Journal of Stroke

12, 615-622

DOI: [10.1177/1747493016681020](https://doi.org/10.1177/1747493016681020)

Citation Report

#	ARTICLE	IF	CITATIONS
1	e-ASPECTS Correlates with and Is Predictive of Outcome after Mechanical Thrombectomy. American Journal of Neuroradiology, 2017, 38, 1594-1599.	1.2	55
2	Imaging assessment of acute ischaemic stroke: a review of radiological methods. British Journal of Radiology, 2018, 91, 20170573.	1.0	16
3	Deep into the Brain: Artificial Intelligence in Stroke Imaging. Journal of Stroke, 2017, 19, 277-285.	1.4	179
4	What are the images used to diagnose and assess suspected strokes?: A systematic literature review of care in four European countries. Expert Review of Pharmacoeconomics and Outcomes Research, 2018, 18, 177-189.	0.7	0
5	10-Point CT-ASPECTS-based reperfusion therapy for unknown onset stroke. Journal of the Formosan Medical Association, 2018, 117, 640-645.	0.8	2
6	Endovascular Thrombectomy in Acute Ischemic Stroke. Circulation: Cardiovascular Interventions, 2018, 11, e005362.	1.4	59
7	Infarct topography and functional outcomes. Journal of Cerebral Blood Flow and Metabolism, 2018, 38, 1517-1532.	2.4	30
8	Evaluating patients for thrombectomy. Brain Circulation, 2018, 4, 153.	0.7	6
9	Automated ASPECT rating: comparison between the Frontier ASPECT Score software and the Brainomix software. Neuroradiology, 2018, 60, 1267-1272.	1.1	42
10	Alberta Stroke Program Early CT Score Versus Computed Tomographic Perfusion to Predict Functional Outcome After Successful Reperfusion in Acute Ischemic Stroke. Stroke, 2018, 49, 2361-2367.	1.0	49
11	Clinical Utility of Electronic Alberta Stroke Program Early Computed Tomography Score Software in the ENCHANTED Trial Database. Stroke, 2018, 49, 1407-1411.	1.0	31
12	Detection of early infarction signs with machine learning-based diagnosis by means of the Alberta Stroke Program Early CT score (ASPECTS) in the clinical routine. Neuroradiology, 2018, 60, 889-901.	1.1	64
13	Multimodal MRI-Based Triage for Acute Stroke Therapy: Challenges and Progress. Frontiers in Neurology, 2018, 9, 586.	1.1	19
15	Data-efficient deep learning of radiological image data for outcome prediction after endovascular treatment of patients with acute ischemic stroke. Computers in Biology and Medicine, 2019, 115, 103516.	3.9	63
16	Computer-aided imaging analysis in acute ischemic stroke – background and clinical applications. Neurological Research and Practice, 2019, 1, 23.	1.0	51
17	Artificial Intelligence in Medical Imaging. , 2019, , .		83
18	Imaging of Patients with Suspected Large-Vessel Occlusion at Primary Stroke Centers: Available Modalities and a Suggested Approach. American Journal of Neuroradiology, 2019, 40, 396-400.	1.2	16
19	Neurological Diseases. , 2019, , 217-230.		1

#	ARTICLE	IF	CITATIONS
20	Advantages, Challenges, and Risks of Artificial Intelligence for Radiologists. , 2019, , 329-346.		10
21	Automated Calculation of the Alberta Stroke Program Early CT Score: Feasibility and Reliability. Radiology, 2019, 291, 141-148.	3.6	91
22	Collateral Automation for Triage in Stroke: Evaluating Automated Scoring of Collaterals in Acute Stroke on Computed Tomography Scans. Cerebrovascular Diseases, 2019, 47, 217-222.	0.8	55
23	Characterization of clot composition in acute cerebral infarct using machine learning techniques. Annals of Clinical and Translational Neurology, 2019, 6, 739-747.	1.7	15
24	Automated versus manual imaging assessment of early ischemic changes in acute stroke: comparison of two software packages and expert consensus. European Radiology, 2019, 29, 6285-6292.	2.3	32
25	Predictive analytics and machine learning in stroke and neurovascular medicine. Neurological Research, 2019, 41, 681-690.	0.6	21
26	Computer aided diagnosis for ASPECT rating: initial experiences with the Frontier ASPECT Score software. Acta Radiologica, 2019, 60, 1673-1679.	0.5	5
27	Automated ASPECTS in Acute Ischemic Stroke: A Comparative Analysis with CT Perfusion. American Journal of Neuroradiology, 2019, 40, 2033-2038.	1.2	29
28	Evaluation of an AI-Based Detection Software for Acute Findings in Abdominal Computed Tomography Scans. Investigative Radiology, 2019, 54, 55-59.	3.5	56
29	Baseline ASPECTS and eASPECTS Correlation with Infarct Volume and Functional Outcome in Patients Undergoing Mechanical Thrombectomy. Journal of Neuroimaging, 2019, 29, 198-202.	1.0	42
30	CT Reconstruction Levels Affect Automated and Reader-Based ASPECTS Ratings in Acute Ischemic Stroke. Journal of Neuroimaging, 2019, 29, 62-64.	1.0	20
31	Simplified selection criteria for patients with longer or unknown time to treatment predict good outcome after mechanical thrombectomy. Journal of NeuroInterventional Surgery, 2019, 11, 559-562.	2.0	45
32	Letter by Harston et al Regarding Article, "Alberta Stroke Program Early CT Score Versus Computed Tomographic Perfusion to Predict Functional Outcome After Successful Reperfusion in Acute Ischemic Stroke". Stroke, 2019, 50, STROKEAHA118023749.	1.0	0
33	Automated ASPECTS on Noncontrast CT Scans in Patients with Acute Ischemic Stroke Using Machine Learning. American Journal of Neuroradiology, 2019, 40, 33-38.	1.2	77
34	e-ASPECTS derived acute ischemic volumes on non-contrast-enhanced computed tomography images. International Journal of Stroke, 2020, 15, 995-1001.	2.9	17
35	Artificial intelligence to diagnose ischemic stroke and identify large vessel occlusions: a systematic review. Journal of NeuroInterventional Surgery, 2020, 12, 156-164.	2.0	194
36	Electronic Alberta Stroke Program Early CT score change and functional outcome in a drip-and-ship stroke service. Journal of NeuroInterventional Surgery, 2020, 12, 252-255.	2.0	6
37	Region-specific agreement in ASPECTS estimation between neuroradiologists and e-ASPECTS software. Journal of NeuroInterventional Surgery, 2020, 12, 720-724.	2.0	21

#	ARTICLE	IF	CITATIONS
38	Validation of an automated ASPECTS method on non-contrast computed tomography scans of acute ischemic stroke patients. <i>International Journal of Stroke</i> , 2020, 15, 528-534.	2.9	7
39	Prevalence of Spasticity and Postural Patterns in the Upper Extremity Post Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 105253.	0.7	16
40	Artificial Intelligence and Stroke Imaging. <i>Neuroimaging Clinics of North America</i> , 2020, 30, 479-492.	0.5	10
41	Detection of ischemic changes on baseline multimodal computed tomography: expert reading vs. Brainomix and RAPID software. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 104978.	0.7	5
42	Artificial Intelligence Applications in Stroke. <i>Stroke</i> , 2020, 51, 2573-2579.	1.0	65
43	Real-World Comparison of Human and Software Image Assessment in Acute Ischemic Stroke Patientsâ€™ Qualification for Reperfusion Treatment. <i>Journal of Clinical Medicine</i> , 2020, 9, 3383.	1.0	4
44	e-ASPECTS for early detection and diagnosis of ischemic stroke. , 2020, , .		2
45	Artificial intelligence for decision support in acute stroke â€” current roles and potential. <i>Nature Reviews Neurology</i> , 2020, 16, 575-585.	4.9	47
46	Evidence-based medicine and machine learning: a partnership with a common purpose. <i>BMJ Evidence-Based Medicine</i> , 2021, 26, 290-294.	1.7	14
47	Automatic Assessment of ASPECTS Using Diffusion-Weighted Imaging in Acute Ischemic Stroke Using Recurrent Residual Convolutional Neural Network. <i>Diagnostics</i> , 2020, 10, 803.	1.3	24
48	Automated ASPECT scoring in acute ischemic stroke: comparison of three software tools. <i>Neuroradiology</i> , 2020, 62, 1231-1238.	1.1	38
49	Posterior circulation stroke: machine learning-based detection of early ischemic changes in acute non-contrast CT scans. <i>Journal of Neurology</i> , 2020, 267, 2632-2641.	1.8	15
50	Deciding Thrombolysis in AIS Based on Automated versus on WhatsApp Interpreted ASPECTS, a Reliability and Cost-Effectiveness Analysis in Developing System of Care. <i>Frontiers in Neurology</i> , 2020, 11, 333.	1.1	9
51	Thrombectomy for Stroke in the Public Health Care System of Brazil. <i>New England Journal of Medicine</i> , 2020, 382, 2316-2326.	13.9	128
52	Computational Image Analysis of Nonenhanced Computed Tomography for Acute Ischaemic Stroke: A Systematic Review. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 104715.	0.7	19
53	Automated detection of pulmonary embolism in CT pulmonary angiograms using an AI-powered algorithm. <i>European Radiology</i> , 2020, 30, 6545-6553.	2.3	70
54	Effect of CAD on performance in ASPECTS reading. <i>Informatics in Medicine Unlocked</i> , 2020, 18, 100295.	1.9	1
55	Impact of slice thickness on clinical utility of automated Alberta Stroke Program Early Computed Tomography Scores. <i>European Radiology</i> , 2020, 30, 3137-3145.	2.3	12

#	ARTICLE	IF	CITATIONS
56	Comparison of the performance between Frontier ASPECTS software and different levels of radiologists on assessing CT examinations of acute ischaemic stroke patients. <i>Clinical Radiology</i> , 2020, 75, 358-365.	0.5	11
57	Machine learning volumetry of ischemic brain lesions on CT after thrombectomyâ€”prospective diagnostic accuracy study in ischemic stroke patients. <i>Neuroradiology</i> , 2020, 62, 1239-1245.	1.1	9
58	Acute ischemic stroke management: concepts and controversies.A narrative review. <i>Expert Review of Neurotherapeutics</i> , 2021, 21, 65-79.	1.4	16
59	Artificial Intelligence and Acute Stroke Imaging. <i>American Journal of Neuroradiology</i> , 2021, 42, 2-11.	1.2	100
60	Comparison of automated and manual DWI-ASPECTS in acute ischemic stroke: total and region-specific assessment. <i>European Radiology</i> , 2021, 31, 4130-4137.	2.3	18
61	Artificial intelligence in cardiovascular medicine. <i>Current Opinion in Cardiology</i> , 2021, 36, 26-35.	0.8	16
62	Validation of automated Alberta Stroke Program Early CT Score (ASPECTS) software for detection of early ischemic changes on non-contrast brain CT scans. <i>Neuroradiology</i> , 2021, 63, 491-498.	1.1	11
64	Diagnostic accuracy of automated occlusion detection in CT angiography using e-CTA. <i>International Journal of Stroke</i> , 2022, 17, 77-82.	2.9	16
65	Noncontrast Computed Tomography e-Stroke Infarct Volume Is Similar to RAPID Computed Tomography Perfusion in Estimating Postreperfusion Infarct Volumes. <i>Stroke</i> , 2021, 52, 634-641.	1.0	27
66	Performance of dual layer dual energy CT virtual monoenergetic images to identify early ischemic changes in patients with anterior circulation large vessel occlusion. <i>Journal of Neuroradiology</i> , 2021, 48, 75-81.	0.6	4
67	CT perfusion based ASPECTS improves the diagnostic performance of early ischemic changes in large vessel occlusion. <i>BMC Medical Imaging</i> , 2021, 21, 67.	1.4	5
68	e-ASPECTS software improves interobserver agreement and accuracy of interpretation of aspects score. <i>Interventional Neuroradiology</i> , 2021, 27, 781-787.	0.7	18
69	Predictors for Failure of Early Neurological Improvement After Successful Thrombectomy in the Anterior Circulation. <i>Stroke</i> , 2021, 52, 1291-1298.	1.0	26
70	How to Improve the Management of Acute Ischemic Stroke by Modern Technologies, Artificial Intelligence, and New Treatment Methods. <i>Life</i> , 2021, 11, 488.	1.1	17
71	Leveraging artificial intelligence in ischemic stroke imaging. <i>Journal of Neuroradiology</i> , 2022, 49, 343-351.	0.6	17
72	EIS-Net: Segmenting early infarct and scoring ASPECTS simultaneously on non-contrast CT of patients with acute ischemic stroke. <i>Medical Image Analysis</i> , 2021, 70, 101984.	7.0	29
73	Artificial intelligence in clinical decision support and outcome prediction â€” applications in stroke. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2021, 65, 518-528.	0.9	14
74	Total and regional ASPECT score for non-contrast CT, CT angiography, and CT perfusion: inter-rater agreement and its association with the final infarction in acute ischemic stroke patients. <i>Acta Radiologica</i> , 2022, 63, 1093-1101.	0.5	6

#	ARTICLE	IF	CITATIONS
75	Alberta Stroke Program Early CT Score Calculation Using the Deep Learning-Based Brain Hemisphere Comparison Algorithm. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105791.	0.7	16
76	Emerging role of artificial intelligence in stroke imaging. <i>Expert Review of Neurotherapeutics</i> , 2021, 21, 745-754.	1.4	3
77	Comparison of automated infarct core volume measures between non-contrast computed tomography and perfusion imaging in acute stroke code patients evaluated for potential endovascular treatment. <i>Journal of the Neurological Sciences</i> , 2021, 426, 117483.	0.3	4
78	Dynamic perfusion analysis in acute ischemic stroke: A comparative study of two different softwares. <i>Clinical Hemorheology and Microcirculation</i> , 2021, 79, 55-63.	0.9	3
79	Precise segmentation of non-enhanced computed tomography in patients with ischemic stroke based on multi-scale U-Net deep network model. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106278.	2.6	11
80	Performance of automated CT ASPECTS in comparison to physicians at different levels on evaluating acute ischemic stroke at a single institution in China. <i>Chinese Neurosurgical Journal</i> , 2021, 7, 40.	0.3	2
81	Optimal thresholds to predict long-term outcome after complete endovascular recanalization in acute anterior ischemic stroke. <i>Journal of NeuroInterventional Surgery</i> , 2021, 13, 1124-1127.	2.0	6
82	Emerging therapies in acute ischemic stroke. <i>F1000Research</i> , 2020, 9, 546.	0.8	32
83	Innovative use of artificial intelligence and digital communication in acute stroke pathway in response to COVID-19. <i>Future Healthcare Journal</i> , 2020, 7, 169-173.	0.6	18
84	Computed tomography in acute ischemic stroke. <i>Neurologie Pro Praxi</i> , 2018, 19, 256-261.	0.0	0
85	Time is Brain: The Prehospital Phase and the Mobile Stroke Unit. <i>Neuromethods</i> , 2020, , 371-395.	0.2	0
86	Accuracy and Prognostic Role of NCCT-ASPECTS Depend on Time from Acute Stroke Symptom-onset for both Human and Machine-learning Based Evaluation. <i>Clinical Neuroradiology</i> , 2022, 32, 133-140.	1.0	6
87	Automated Large Artery Occlusion Detection in Stroke: A Single-Center Validation Study of an Artificial Intelligence Algorithm. <i>Cerebrovascular Diseases</i> , 2022, 51, 259-264.	0.8	14
88	The use of e-ASPECTS in acute stroke care: validation of method performance compared to the performance of specialists. <i>Arquivos De Neuro-Psiquiatria</i> , 2020, 78, 757-761.	0.3	5
89	Zerebrovaskuläre Erkrankungen. , 2020, , 1-25.		0
90	Real-world Independent Testing of e-ASPECTS Software (RITeS): statistical analysis plan. <i>AMRC Open Research</i> , 0, 2, 20.	1.7	4
91	Artificial Intelligence in Telemedicine. , 2021, , 1-10.		0
92	Overview of Imaging Modalities in Stroke. <i>Neurology</i> , 2021, 97, S42-S51.	1.5	22

#	ARTICLE	IF	CITATIONS
93	Foundations of Lesion Detection Using Machine Learning in Clinical Neuroimaging. Acta Neurochirurgica Supplementum, 2022, 134, 171-182.	0.5	1
95	Artificial Intelligence in "Code Stroke" A Paradigm Shift: Do Radiologists Need to Change Their Practice?. Radiology: Artificial Intelligence, 2022, 4, e210204.	3.0	8
96	Improved Stroke Care in a Primary Stroke Centre Using AI-Decision Support. Cerebrovascular Diseases Extra, 2022, 12, 28-32.	0.5	4
97	Application of Deep Learning to Ischemic and Hemorrhagic Stroke Computed Tomography and Magnetic Resonance Imaging. Seminars in Ultrasound, CT and MRI, 2022, 43, 147-152.	0.7	9
98	Artificial Intelligence in Telemedicine. , 2022, , 1219-1227.		0
99	Artificial Intelligence in the Emergency Room: How E-ASPECTS Helps Emergency Physicians Evaluate Brain CT of Patients with Acute Ischemic Stroke. SSRN Electronic Journal, 0, , .	0.4	1
100	Artificial intelligence in the diagnosis and management of acute ischemic stroke. , 2022, , 293-307.		0
101	How artificial intelligence improves radiological interpretation in suspected pulmonary embolism. European Radiology, 2022, 32, 5831-5842.	2.3	25
102	Diagnostic accuracy of a commercially available deep-learning algorithm in supine chest radiographs following trauma. British Journal of Radiology, 2022, 95, 20210979.	1.0	14
103	Artificial Intelligence for Large-Vessel Occlusion Stroke: A Systematic Review. World Neurosurgery, 2022, 159, 207-220.e1.	0.7	21
104	Prognosis with non-contrast CT and CT Perfusion imaging in thrombolysis-treated acute ischemic stroke. European Journal of Radiology, 2022, 149, 110217.	1.2	6
105	Charting the potential of brain computed tomography deep learning systems. Journal of Clinical Neuroscience, 2022, 99, 217-223.	0.8	15
106	Current approaches and advances in the imaging of stroke. DMM Disease Models and Mechanisms, 2021, 14, .	1.2	10
107	Accuracy of Automated Computer-Aided Diagnosis for Stroke Imaging: A Critical Evaluation of Current Evidence. Stroke, 2022, 53, 2393-2403.	1.0	22
108	Diagnosis of Ischemic Stroke: As Simple as Possible. Diagnostics, 2022, 12, 1452.	1.3	2
109	Efficacy of Cerebrolysin Treatment as an Add-On Therapy to Mechanical Thrombectomy in Patients With Acute Ischemic Stroke Due to Large Vessel Occlusion: Study Protocol for a Prospective, Open Label, Single-Center Study With 12 Months of Follow-Up. Frontiers in Neurology, 0, 13, .	1.1	6
110	Automated ASPECTS Classification in Acute Ischemic Stroke using EfficientNetV2. , 2022, , .		2
111	Stroke pathway " An evidence base for commissioning " An evidence review for NHS England and NHS Improvement. NIHR Open Research, 0, 2, 43.	0.0	2

#	ARTICLE	IF	CITATIONS
112	Artificial Intelligence in Healthcare Competition (TEKNOFEST-2021): Stroke Data Set. Eurasian Journal of Medicine, 2022, 54, 248-258.	0.2	8
113	Application Status and Prospect of Artificial Intelligence in Neurosurgery. , 2022, , 283-298.		1
114	External Validation of <sc>eâ€ASPECTS</sc> Software for Interpreting Brain CT in Stroke. Annals of Neurology, 2022, 92, 943-957.	2.8	11
115	Clinical value of automated volumetric quantification of early ischemic tissue changes on non-contrast CT. Journal of NeuroInterventional Surgery, 2023, 15, e178-e183.	2.0	3
116	Automated evaluation of ASPECTS from brain computerized tomography of patients with acute ischemic stroke. Journal of Neuroimaging, 2023, 33, 134-137.	1.0	2
117	Deep Learning in Ischemic Stroke Imaging Analysis: A Comprehensive Review. BioMed Research International, 2022, 2022, 1-15.	0.9	4
118	How a thrombectomy service can reduce hospital deficit: a cost-effectiveness study. Cost Effectiveness and Resource Allocation, 2022, 20, .	0.6	2
119	Effect of a flipped classroom course to foster medical studentsâ€™ AI literacy with a focus on medical imaging: a single group pre-and post-test study. BMC Medical Education, 2022, 22, .	1.0	6
120	Independent Confirmation. Annals of Neurology, 2023, 93, 424-425.	2.8	0
121	Automated estimation of ischemic core volume on noncontrast-enhanced CT via machine learning. Interventional Neuroradiology, 0, , 159101992211454.	0.7	1
122	Reply to â€œIndependent Confirmationâ€• Annals of Neurology, 2023, 93, 425-425.	2.8	0
123	Artificial intelligence-driven ASPECTS for the detection of early stroke changes in non-contrast CT: a systematic review and meta-analysis. Journal of NeuroInterventional Surgery, 2023, 15, e298-e304.	2.0	8
124	Improving the diagnosis of acute ischemic stroke on non-contrast CT using deep learning: a multicenter study. Insights Into Imaging, 2022, 13, .	1.6	8
125	Application of Machine Learning and Deep Learning in Imaging of Ischemic Stroke. Investigative Magnetic Resonance Imaging, 2022, 26, 191.	0.2	0
126	Automated CT angiography collateral scoring in anterior large vessel occlusion stroke: A multireader study. Interventional Neuroradiology, 0, , 159101992211504.	0.7	1
127	Location-specific ASPECTS does not improve Outcome Prediction in Large Vessel Occlusion compared to Cumulative ASPECTS. Clinical Neuroradiology, 2023, 33, 661-668.	1.0	5
128	A <sc>CNN</sc> transfer learningâ€based approach for segmentation and classification of brain stroke from <sc>noncontrast CT</sc> images. International Journal of Imaging Systems and Technology, 2023, 33, 1335-1352.	2.7	6
129	Automatic comprehensive aspects reports in clinical acute stroke MRIs. Scientific Reports, 2023, 13, .	1.6	1

#	ARTICLE	IF	CITATIONS
131	CNS Machine Learning. , 2023, , 1347-1375.		0
136	AI tools in Emergency Radiology reading room: a new era of Radiology. Emergency Radiology, 0, , .	1.0	2
137	Machine Learning for Cerebrovascular Disorders. Neuromethods, 2023, , 921-961.	0.2	0