KEY PUBLICATIONS - STROKE

Explore the Evidence Behind Our Innovation
Our advanced imaging solutions are backed by robust clinical research and peer-reviewed publications. Below, you'll find a selection of key studies that highlight the efficacy of our metabolic insights, advanced biomarkers, and precision imaging techniques in improving patient care across neurological fields.

"Ground-breaking research, advanced biomarkers, and cutting-edge technology have allowed us to enhance perfusion maps, offering more precise and reliable results where previous technologies fell short.

That's why we created Cercare Medical."

Professor
Kim Beuschau Mouridsen
Founder & CEO
Cercare Medical

	MR	CT
Stroke - Bani-Sadr et al., 2024 OEF mapping on admission MRI may predict recovery of hyperacute ischemic brain lesions after successful thrombectomy **DOI: 10.1161/STROKEAHA.124.047311**	X	
ANJR - Otgonbaatar, et al., 2024 CT perfusion-derived CMRO2 is a promising parameter for estimating the infarct core volume in patients with acute ischemic stroke. Agreement between model and 4 expert readers. **DOI 10.3174/ajnr.A8360**		X
BMJ Journals - Brugnara et al., 2022 Comparison of maps for patients with LVO before and after endovascular treatment. Tmax, MTT, OEF and CTH values immediately after EVT were lower in patients with complete (as compared with incomplete) recanalization **DOI: 10.1136/neurintsurg-2020-017163**	X	
SpringerLink - Potreck et al., 2019 CTH is a predictor of outcome for ICH in patients with acute ischemic stroke and mismatch undergoing endovascular thrombectomy **DOI: 10.1007/s00330-019-06064-4**	X	
Sage Journals - Engedal et al., 2018 MRI: COV biomarker was evaluated, named as RTH in the publication; CTH too [DSC] **DOI: 10.1177/0271678X17721666**	X	
Stroke - Nielsen et al., 2018 AI model to detect the infarct area. The infarct area was delineated by 4 expert radiologists on a T2-FLAIR scan acquired 1 month after the stroke to cross check the quality of the CNN. **DOI: 10.1161/STROKEAHA.117.019740**	X	
Stroke - Livne et al., 2018 Predict final infarct from perfusion maps, T2FLAIR and DWI as seen on follow-up T2FLAIR using the extreme gradient boosting. **DOI: 10.1161/STROKEAHA.117.019440**	X	
Frontiers - Boldsen et al., 2018 Outlines of core stroke lesion using decision trees based on DWI images. **DOI: 10.3389/fninf.2018.00021**	X	
JMRI - Hansen et al., 2016 Agreement between model and 4 expert readers. **DOI: 10.1002/jmri.24963**		X
Springer Link - Mikkelsen et al., 2015 Comparison between SVD method and vascular model. Vascular model can be applied to shorter scan durations. **DOI: 10.1007/s00330-015-3602-x**	X	

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	MR	CT
SpringerLink - Østergaard et al., 2015 Relevance of CTH and other markers in a stroke or dementia setting. **DOI: 10.1007/s11910-015-0557-x**	X	
Sage Journals - Mouridsen et al. 2014 Technical presentation of the measure of CTH and other biomarker. **DOI: 10.1038/jcbfm.2014.111**	X	X
Stroke - Hougaard et al., 2014 Comparison between of remote ischemic perconditioning in addition to trombolysis therapy: inconclusive results. **DOI: 10.1161/STROKEAHA.113.001346**	X	
Sage Journals - Østergaard et al., 2013 Relevance of CTH and other markers in an acute ischemic stroke setting . **DOI: 10.1038/jcbfm.2013.18**	X	
Sage Journals - Kate et al., 2013 Tested whether Blood pressure reduction imparis the perihematoma tissue oxygenation. Results revealed that blood pressure reduction does not affect perihematoma oxygen delivery. **DOI: 10.1038/jcbfm.2013.164**	X	
Frontiers - Nagenthiraja et al., 2013 Retrospective evaluation of the TTP and ADC AI outlines. **DOI: 10.3389/fneur.2013.00140**	X	
Radiology - Mouridsen et al., 2013 Evaluation of the model based MTT outline: agreement of model outcome with neuroradiologists was 0.79. **DOI: 10.1148/radiol.13121622**	X	
Stroke - Neumann et al., 2009 Rating infarct size with FLAIR leads to lower interrater variability than T2. **DOI: 10.1161/STROKEAHA.108.545368**	X	
Stroke - Jonsdottir et al., 2009 For AI models one should use the same amount of infarcting and non-infarcting voxels. **DOI: 10.1161/STROKEAHA.109.552216**	X	
ScienceDirect - Mouridsen et al. 2006 Technical presentation of the vascular model and comparison with the traditional one. **DOI: 10.1016/j.neuroimage.2006.06.015**		X

Cercare Medical | www.cercare-medical.com info@cercare-medical.com | Inge Lehmanns Gade 10 8000 Aarhus C, Denmark