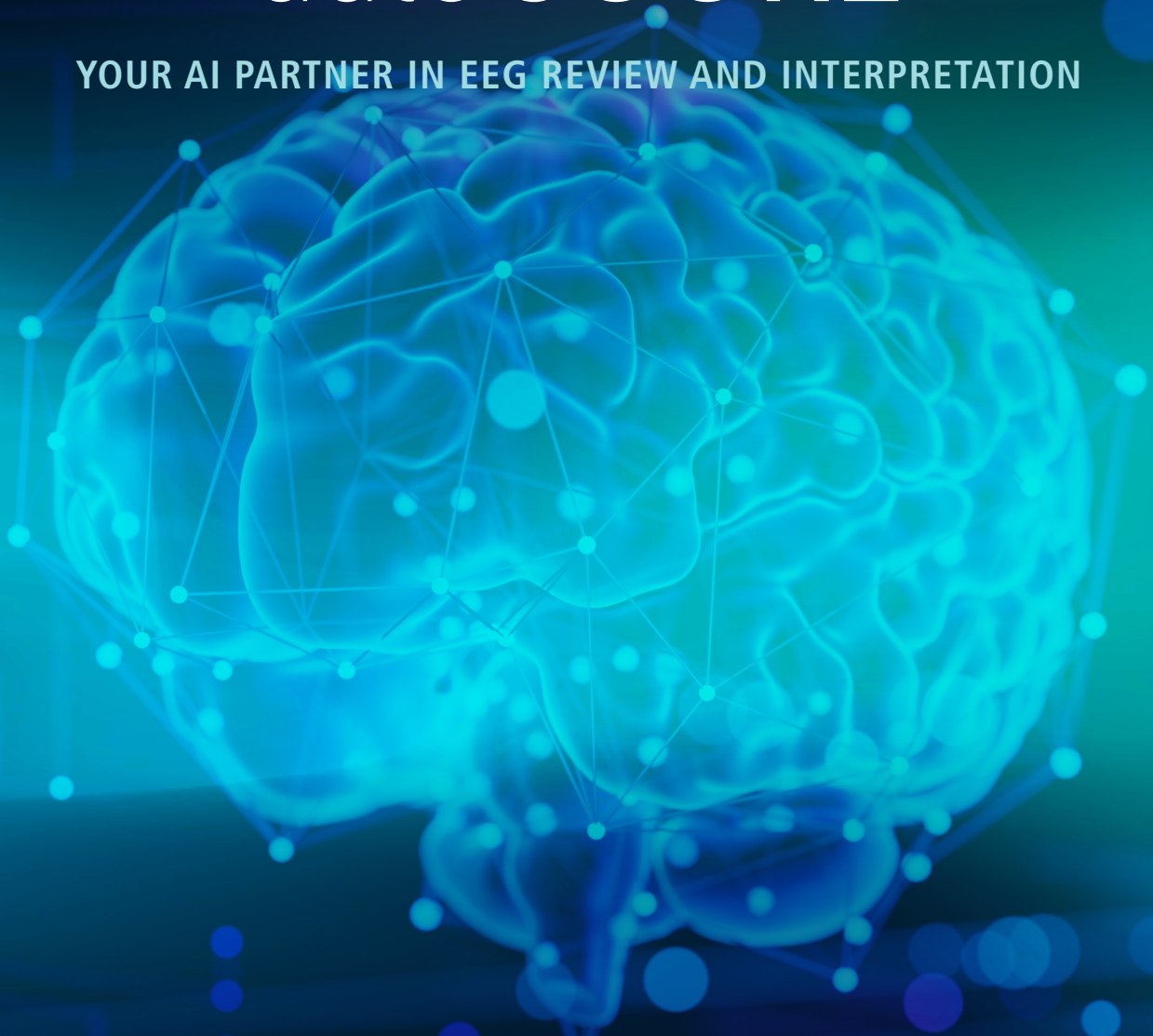


natus®

autoSCORE

YOUR AI PARTNER IN EEG REVIEW AND INTERPRETATION



autoSCORE has been shown to be on par with leading human experts.¹

auto**SCORE**

Achieve expert-level EEG review

Reviewing EEG data is complex and time-consuming, often requiring specialized expertise that pulls clinicians away from patient care; autoSCORE streamlines this process with AI-driven, expert-level interpretation to improve efficiency and consistency across LTM, ambulatory and routine studies.

autoSCORE is the world's first analysis tool that leverages advanced deep learning to streamline comprehensive review of routine EEGs, LTM and ambulatory EEGs, delivering expert-level analysis to flag clinically relevant abnormalities and provide study-level insights. By providing AI-assisted assessments and highlighting key findings, autoSCORE is designed to save valuable time, allowing neuro care teams to focus more on patient care and less on manual data review.

autoSCORE for EEG analysis & interpretation



Designed to **accelerate EEG review** supporting timely clinical decisions.



Consistent results aim to reduce interrater variability.



Identifies **normal and abnormal EEGs**.



Always available as a **reliable colleague** for your EEG review.



Designed to enhance productivity by reducing review time.

AI innovation for LTM, ambulatory and routine EEG

autoSCORE automatically classifies and provides a quick visual summary of EEG abnormalities, flagging segments that may contain abnormalities, to facilitate high quality, effective workflows, and consistent reporting.

Workflow efficiency

To provide an intuitive user experience, autoSCORE is seamlessly integrated into our industry-leading EEG software. By providing AI-based support designed to improve efficiency and consistency when interpreting EEGs, autoSCORE can give your team more time to spend on patient care.

Proven performance

Developed using a deep-learning model trained on a dataset of over 30,000 expertly labeled EEG recordings, autoSCORE has been extensively validated by experts, with results published in peer-reviewed publications^{1,2}.

References

¹Tveit J, Aurlen H, Plis S, et al. Automated Interpretation of Clinical Electroencephalograms Using Artificial Intelligence. JAMA Neurol. Published online June 20, 2023. doi:10.1001/jamaneurol.2023.1645

²Mansilla D, Tveit J, Aurlen H, Avigdor T, Ros-Castello V, Ho A, et al. Generalizability of electroencephalographic interpretation using artificial intelligence: An external validation study. Epilepsia 2024;65:3028–37. <https://doi.org/10.1111/EPI.18082>.

Automated abnormality categorization



**FOCAL
EPILEPTIFORM**



**GENERALIZED
EPILEPTIFORM**



**FOCAL
NON-EPILEPTIFORM**



**DIFFUSE
NON-EPILEPTIFORM**

90%

Overall sensitivity¹

87%

Overall specificity¹

88%

Overall accuracy
(vs. 83% human experts)¹

95%

Normal vs abnormal¹

Built into the software you know for results you can trust

Trusted Natus software

autoSCORE is available exclusively on Natus EEG software, the most used and trusted platforms in the world.

Faster review for confident decisions

autoSCORE is a fixed-and frozen AI model based on a closed set of data that is not actively being updated while in the field. It does not collect sensitive Protected Health Information (PHI) such as patient demographics or EEG traces.

Workflow for autoSCORE

Quickly enhance your accuracy and reporting quality



1. Record study with autoSCORE enabled.

2. Use study-level visual indicators to support workday planning.

3. Quickly identify traces or segments of clinical significance.

4. Facilitate quality assessments, faster review time, and more consistent reporting.

AI-powered analysis to support your whole team



Supports accurate, timely interpretation across routine, LTM and ambulatory EEGs.



Helps improve care access, reduce backlogs, and optimize clinical resources—without compromising quality.



Automates abnormality detection and supports efficient, high-volume review to support and scale operations.

LTM Studies



AI-powered insights help physicians reduce review burden and focus on critical study segments.

Ambulatory EEG



Objective, AI-assisted analysis provides critical support when reviewing recordings more prone to artifacts, with results available while the study runs in the patient's home.

Routine EEG



Quick, confident routine EEG interpretation support—and help distinguish normal and abnormal studies.



Designed for faster, more consistent interpretations across large volumes of studies to enhance efficiency.

“

I like to think of autoSCORE as a colleague of mine who is always looking over my shoulder, and whom I can always discuss EEG interpretation.

”

Harald Aurlen, co-founder of Holberg EEG and consultant in clinical neurophysiology at Haukeland University Hospital

Easy-to-read visual indicators at the study level

Confidence-weighted study classifications for each patient exam

▶ Studies less than 4 hours:

Routine EEGs are evaluated as a whole. Probability and color summarize the result.



Overall abnormality assessment:



**NORMAL
EEG**



**PROBABLE
NORMAL EEG**



**PROBABLE
ABNORMAL EEG**



**ABNORMAL
EEG**

Last First
Edwards Nancy

Abnormality
● 99%

Focal Epi
● 89%

Gen Epi

Focal Non-Epi
● 94%

Diff Non-Epi
● 50%

▶ Studies more than 4 hours:

Long-term EEGs are evaluated in segments, so distribution across time gives better insight into review complexity



Overall abnormality assessment:



Proportion of study with abnormal EEG

Last First
Virotsko David

Abnormality
● 3/9

Focal Epi



Gen Epi
● 1/9

Focal Non-Epi
● 0/9

Diff Non-Epi
● 0/9

Number of
segments with
specific abnormality

Abnormality type

Total number of 2 hour
segments in study

Detailed analysis with trace-level assessments

▶ Event list

View, sort, and filter autoSCORE events.

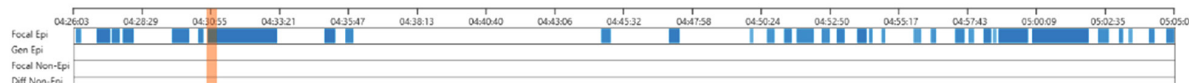
Time	Title	Duration	Probability
d1 00:06:06	Focal Epi	0:28.0	95.6%
d1 00:08:06	Focal Epi	0:16.0	94.6%
d1 00:07:54	Focal Epi	0:19.0	94.2%
d2 12:04:50	Focal Epi	0:58.0	94.1%
d1 04:12:09	Focal Epi	0:32.0	94.1%
d1 01:08:23	Focal Epi	0:39.0	93.6%
d1 01:10:32	Focal Epi	0:45.0	93.6%
d1 03:07:54	Focal Epi	0:32.0	93.5%
d1 03:28:15	Focal Epi	0:26.0	93.5%
d1 03:12:45	Focal Epi	0:22.0	92.4%
d1 04:34:46	Focal Epi	0:34.0	92.4%
d1 02:02:30	Focal Epi	0:51.0	92.4%



Click on event to navigate to abnormal segment.

▶ Comprehensive View

Distribution of autoSCORE events per abnormality type is easily visualized.



autoSCORE

“Humans teaming with intelligent machines has become a fundamental characteristic of a successful clinical decision support system ... autoSCORE is a reliable colleague that can provide a second option ... a powerful pathway to faster interventions.”

Dr. Ram Mohan Sankaraneni, Board-certified neurologist.
Fellow of the American Epilepsy Society
and the American Academy of Neurology

See how autoSCORE fits your workflow

Scan to explore case studies, clinical evidence, and practical resources that show how autoSCORE can support your expertise and help you be more efficient.



natus.com/autoscore-resources

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Ready to learn more?

Experience firsthand how autoSCORE can benefit your organization with a free demo. Contact your local Natus representative for more information.

US Customers Call:

+1-800-356-0007

International Customers Call:

+1-608-829-8500



Add value through education with the Neuro Training Academy

Make the most of autoSCORE by joining the Neuro Training Academy, with free access to expertise from leaders in the field.

Join today at neuro-training.academy

MAKING SENSE OF THE BODY'S SIGNALS

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