



encevis performs automatic EEG

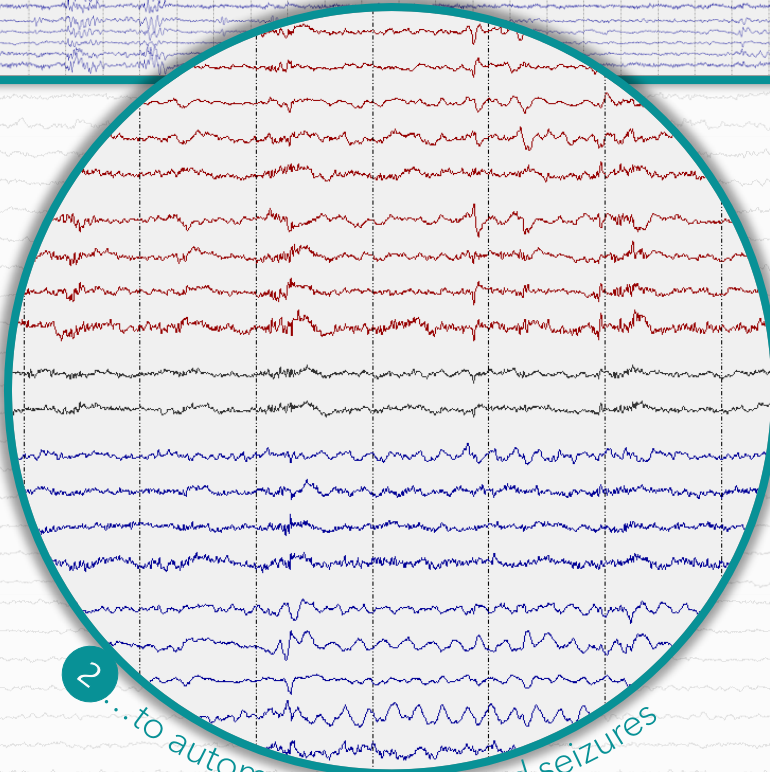
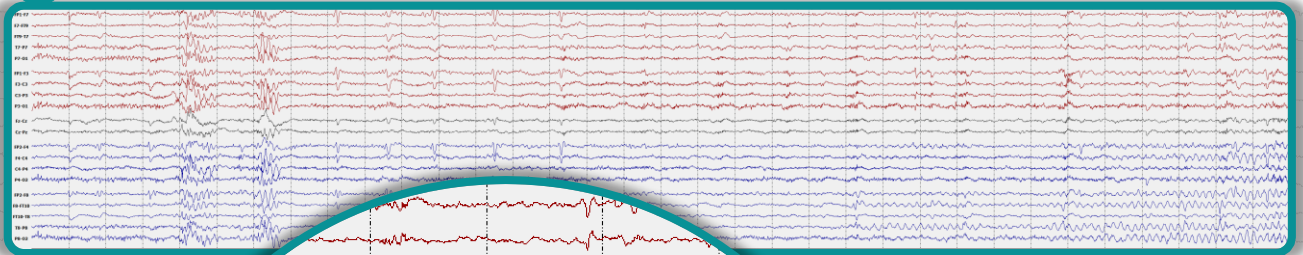


SEIZURE DETECTION




with the encevis **EpiScan** tool



1 From raw EEG data...



2 ...to automatically detected seizures

-  **AI-driven** - automatic detection with AI-based algorithms
-  **Accurate** - sensitivity above 95%
-  **Fast** - one hour of data analyzed in under 1½ minutes



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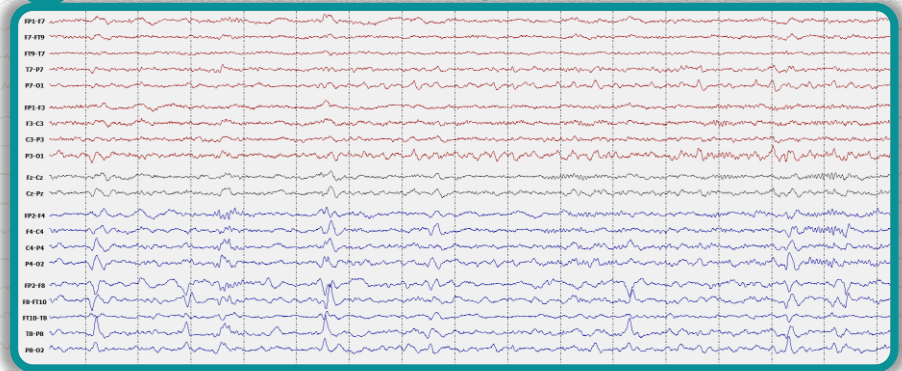


SPIKE DETECTION

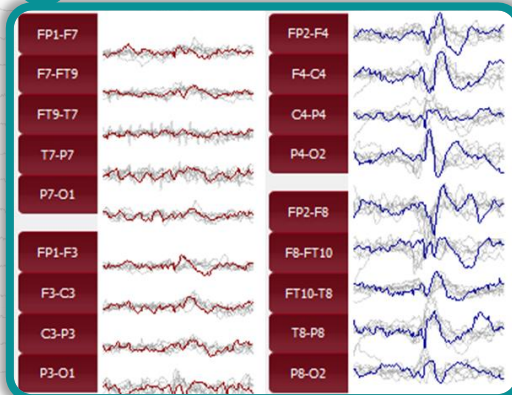
with the encevis **EpiSpike** tool



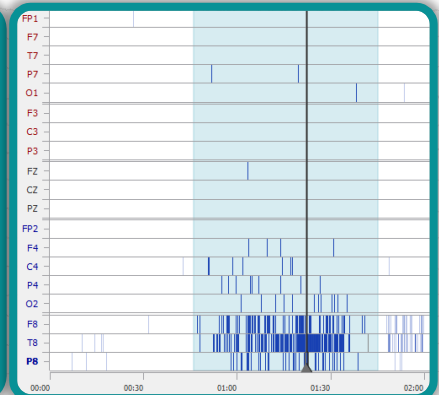
1 From raw EEG recording...



2 ...to automatically detected spikes



Label	Type	Number (%)
✓ F4		4 (1.1 %)
✓ F8		81 (22.5 %)
✓ FP1		1 (0.3 %)
✓ FZ		1 (0.3 %)
✓ O1		0 (0.0 %)
✓ O2		12 (3.3 %)
✓ P4		9 (2.5 %)
✓ P7		2 (0.6 %)
✓ P8		45 (12.5 %)
✓ T8		197 (54.7 %)



Type	Left Hemisphere	Midline	Right Hemisphere	Total
	5 (1.1 %)	1 (0.2 %)	439 (98.7 %)	445 (100.0 %)

- AI-driven** - automatic detection with AI-based algorithms
- Accurate** - sensitivity above 85%
- Comprehensive** - all detections summarized and marked in the raw data



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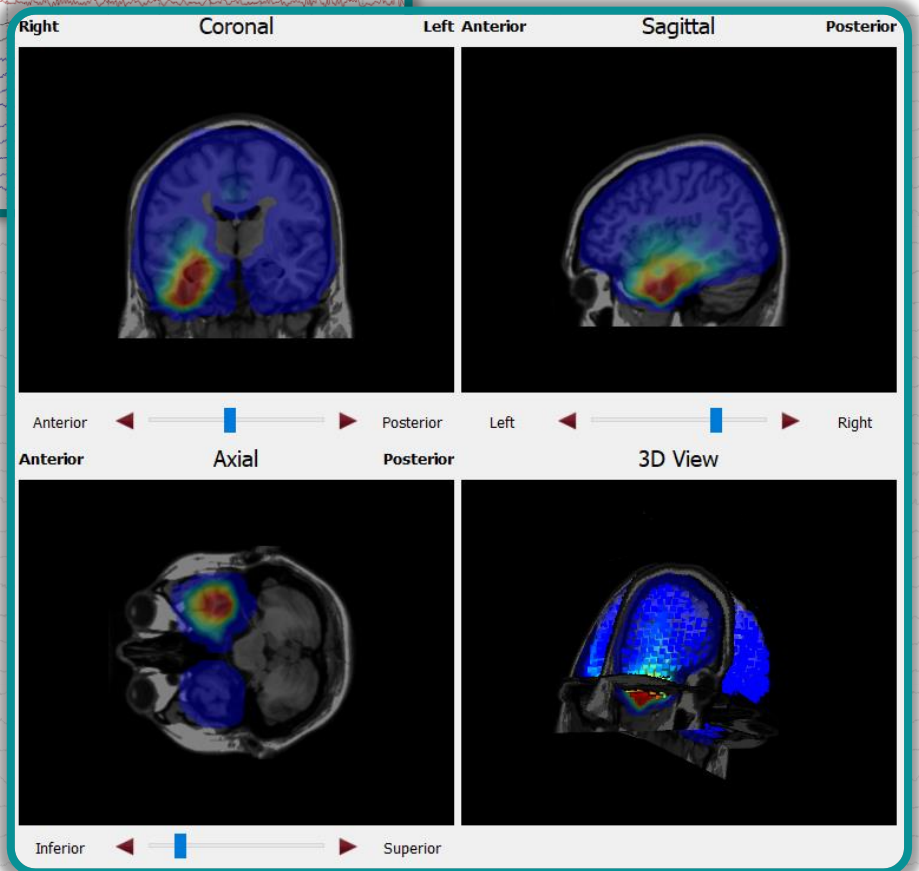
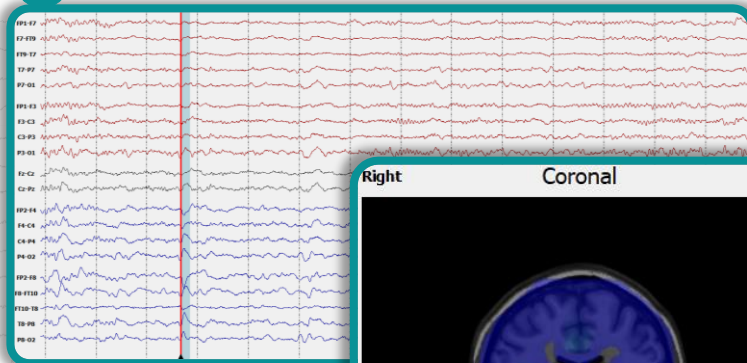


SOURCE RECONSTRUCTION

with the encevis **EpiSource** tool



1 From raw EEG data...



2 ...to 3D representation of the signal

- Automatic** - users only need to mark a time-window in the EEG viewer
- Versatile** - suitable for reconstruction of seizures, spikes and interictal activity
- Interactive** - possible to move across brain slides and time



encevis performs automatic EEG

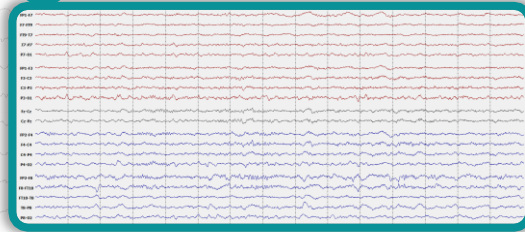


TREND ANALYSIS

with the encevis **NeuroTrend** tool



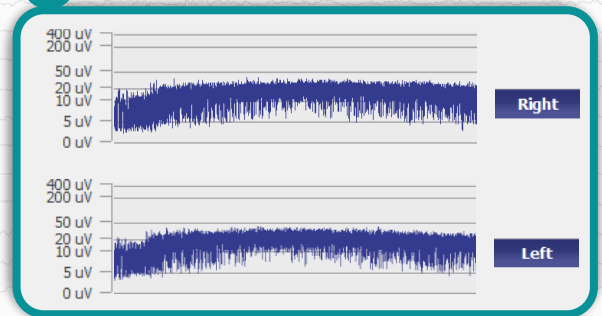
1 From raw EEG recording...



2 ...to pattern overview



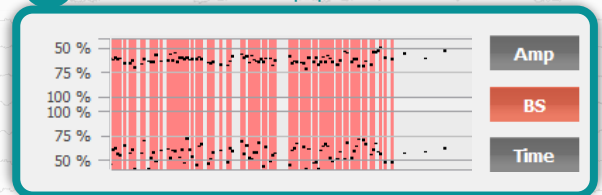
3 ...to aEEG



4 ...to background frequency



5 ...to burst suppression



- Extensive** - analysis of rhythmic and periodic patterns according to ACNS
- Clear** - color-coded summary of multi-hour EEG recordings on one screen
- Automatic** - no user interaction necessary



encevis performs automatic EEG

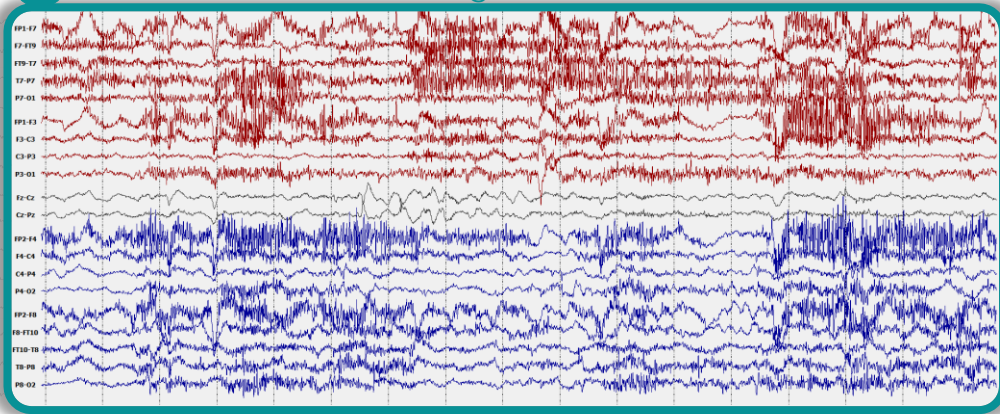


ARTIFACT REDUCTION

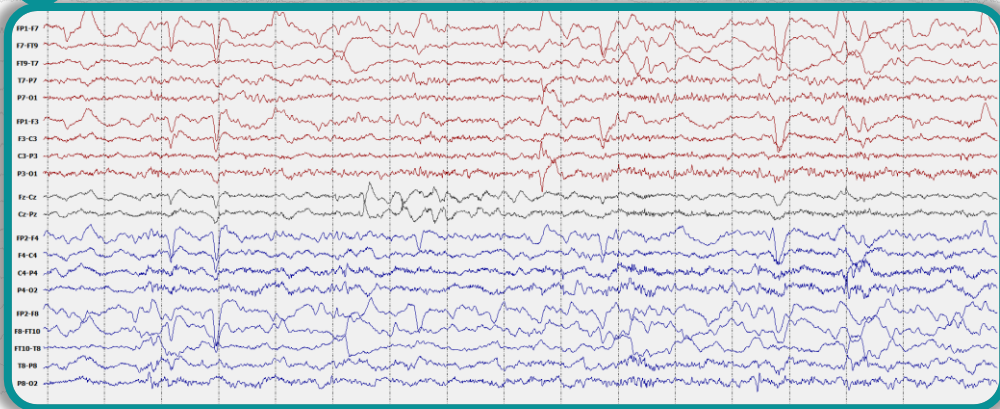
with the encevis **PureEEG** tool






1 From raw EEG recording...



2 ...to automatically cleaned data



-  **Precise** - eye-movements disentangled from spikes and slow waves (only in the CE- but not FDA- certified software version)
-  **Selective** - separation of artifacts from brain signal based on spatial properties
-  **Automatic** - no user interaction necessary



encevis provides

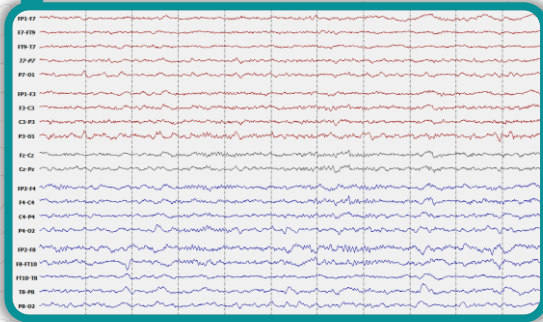


EEG REVIEW

with the encevis **Viewer** tool



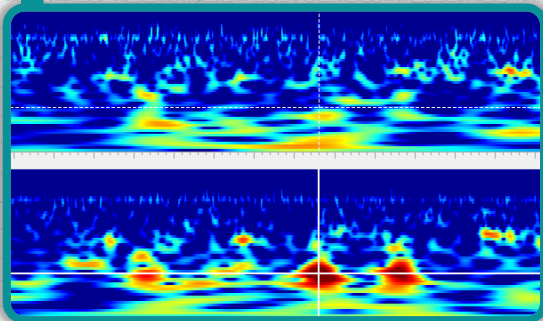
Raw EEG data visualisation



Montage selection & modification

	Montage name	Description	Enabled
1	Longitudinal_L-R	Left channels first.	<input checked="" type="checkbox"/>
2	Longitudinal_R-L	Right channels first.	<input checked="" type="checkbox"/>
3	Longitudinal_T-PS-M_L-R	1. Temporal chains, 2. parasagittal chains, 3. midline. Left channels first.	<input checked="" type="checkbox"/>
4	Longitudinal_T-PS-M_R-L	1. Temporal chains, 2. parasagittal chains, 3. midline; right channels first.	<input checked="" type="checkbox"/>
5	Referential_Alt_A1-A2_L-R	Alternating left and right channels. Reference A1/A2. Left channels first.	<input checked="" type="checkbox"/>
6	Referential_Alt_A1-A2_R-L	Alternating left and right channels. Reference A1/A2. Right channels first.	<input checked="" type="checkbox"/>
7	Referential_Alt_AVG_L-R	Alternating left and right channels. Common average reference. Left channels first.	<input checked="" type="checkbox"/>
8	Referential_Alt_AVG_R-L	Alternating left and right channels. Common average reference. Right channels first.	<input checked="" type="checkbox"/>
9	Referential_Alt_Cz_L-R	Alternating left and right channels. Reference Cz. Left channels first.	<input checked="" type="checkbox"/>
10	Referential_Alt_Cz_R-L	Alternating left and right channels. Reference Cz. Right channels first.	<input checked="" type="checkbox"/>
11	Referential_T-PS-M_A1-A2_L-R	1. Temporal chains, 2. parasagittal chains, 3. midline. Reference A1/A2. Left channels first.	<input checked="" type="checkbox"/>

Spectrogram visualisation



Patient & data management

Patient label	First name	Last name	Birthdate
EMU_01	Thulias	Kenning	1973-01-13
EMU_02	Godfrey	Butoxy	1964-06-24
EMU_03	Talbot	Flyter	1988-02-16
EMU_04	Glosts	Rockably	1963-12-16
EMU_05	Delbate	Poteens	1959-06-07
ICU_01	Lenglen	Braved	1991-11-30
ICU_02	Goen	Unamil	1975-09-23
ICU_03	Anderyl	Biddance	1963-08-03
ICU_04	Metasoma	Eniaper	1983-11-11
ICU_05	Talene	Ungaro	1976-03-29
ICU_06	Lucum	Uppish	1978-10-25
ICU_07	Ephahs	Unfarced	1966-02-27

Recording label	Recording date	Reference
Day_01	2021-03-21 09:30:24	Fpz
Night_01	2021-03-21 22:14:47	Fpz
Day_02	2021-03-22 07:00:17	Fpz

- User friendly** - designed to accommodate standard clinical routine
- Flexible** - display parameters can be easily adjusted
- Clear** - neat and tidy view, no unnecessary clutter