

EPILEPTOLOGY

Automatic FCD detection and rendering

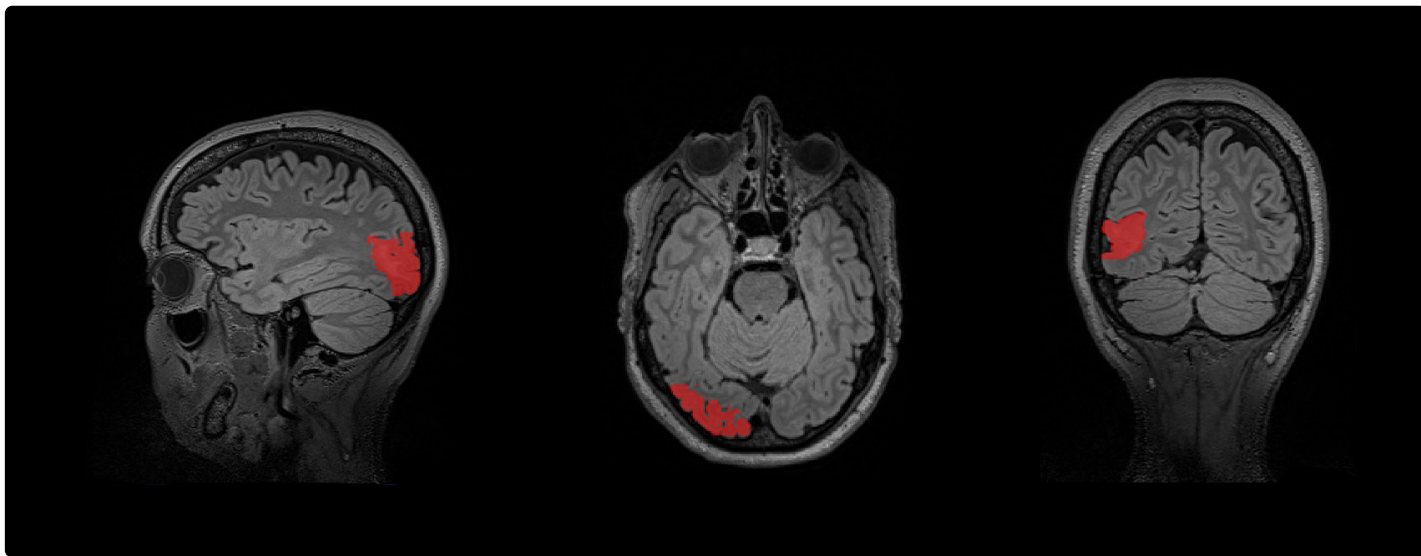


Fig. 1: FCD detection in a two-dimensional MRT before rendering

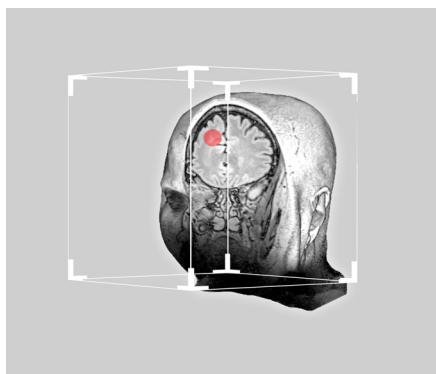


Fig. 2: red-marked Focal Cortical Dysplasia (FCD)

Case description: The use of VSI Holomedicine accelerates the detection of focal cortical dysplasias (FCDs) in the context of epileptological (etiological and presurgical) diagnostics. VSI Holomedicine examines head MRIs for the presence of FCDs with the help of a special algorithm that is further optimized with every use through artificial intelligence. If an FCD is detected, it is automatically rendered and highlighted in color within the MRI. The rendered MRI can also be used as the basis for surgical planning and assistance for the neurosurgeon.

ADVANTAGES:

- Automation, acceleration and optimization of FCD detection
- Improved orientation by highlighting the FCD
- MRI with detected and rendered FCD can be used for intraoperative planning and implementation

„The greatest advantage of holomedicine I see is its three dimensionality, something that not even the best 2D screens compete with. Not only do doctors benefit from this, but so do their patients when receiving information prior to an operation.“

Dr. Patrick House
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