

## Training Model for Neuronavigation and Trepanation

The cranial neuronavigation has become firmly established as a standard application in neurosurgery hospitals. The new training model permits a simulation of the operation under real conditions and is suitable for practice and training.



### Advantages

- model head is developed using original CCT-data
- the model head is equipped with navigation reference markers
- different fixing possibilities
- model head can be turned in all directions
- practice under near real conditions the model head can be reused

### Item number

NMB-0704-001	complete model head including CCT-data
NMHP-0704-001	skin panel
NMKP-0704-001	calotte panel

# Training Model for Neuronavigation and Trepanation

The aim of this model is to use the visual opportunities for the 3dimensional representation of the intracranial anatomy with neuronavigation for education and practise purposes.

In cooperation with Mr. Dr. Lühn<sup>1</sup> from the Neurosurgery Hospital “Leopoldina Krankenhaus Schweinfurt” a model head was developed from CCT-data, which outlines the contours of the surface of the skin with navigation reference markers on it. In addition you can take out a skin panel and a calotte panel frontoparietal from the right side. The calotte panel is fixed at the model head and corresponds to the CCT-data, which are a part of the delivery.

The model head support the fixation in a Mayfield-clamp or directly at the Mayfield-adapter. The reference markers inside the CCT-data are exactly in the same position as in the model, you can align the model with the CCT data.

## Advantages

- You can train the principles and procedures of the neuronavigation anytime at any duration outside of the OP routine. You can plan and test all steps on the computer with the CCT-data to show theses later with the navigation system on the model.
- The storage of the model is possible in all directions. The hence resulting intracranial anatomy you can visualize with this model head. Thus important principles of neurosurgical OP planning and strategy are representable and easier to learn.
- Under the continuous visual representation through the neuronavigation system you can make various craniotomies on the calotte panel. The hardness and the structure of the calotte panel is comparable to a real skull calotte. You can use trepane, craniotome and fraises under real conditions.

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