

Simulator for pediatric neuroendoscopic surgery

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Pediatric Neuroendoscopy Simulator (NEB) is part of the Pediatric Baby Simulator (PBS) system which was developed to offer realism in pediatric neuroendoscopy procedures. Its surgical unit is a replaceable and customizable head, with face and hydrocephalic skull, containing in its interior dilated cerebral ventricles. A catheter controls the outflow of the air, while another allows the filling by liquid injection using a syringe and saline solution, until the dilation of the skull is perceptible.

In this model, it's necessary to perform a craniotomy, allowing the insertion of a neuroendoscope, optionally, in the left or right lateral ventricle. Internal pathologies can be offered in a customized way, allowing the physician in training to identify structures such as: lateral ventricles, third ventricle, fourth ventricle, striated artery of the thalamus, septal vein, dilated Monro orifice, pineal, chiasm, Sylvius aqueduct, mammillary bodies, tuber cinereum, interpeduncular fossa and basilar artery, among other structures. The NEB simulator provides surgical access to tumors such as colloid cysts gliomas, cysticerci and meningiomas, among others. It is also possible to perform cauterization of the choroid plexus, removal of tumors and ventriculostomy. Bleeding is present in the approach to tumors.