

A box trainer for neuro-endoscopy

Salient features of the technology

- The neuro-endoscopic box trainer can be used to impart partial task training in endoscopic neurosurgery as it provides a constrained environment similar to neurosurgical workspace.
- The neuro-endoscopic box trainer is a minimally invasive neurosurgery apparatus where the endoscope is used to access the deep structures of the brain.
- The apparatus helps to improve hand-eye coordination, dexterity, efficiency of motion, instrument-tissue manipulation and endoscope manipulation.
- The box trainer also includes an auxiliary camera for recording and offline analysis of the performed activity of the user.
- This apparatus also provides a cost effective alternative as compared to instruments available in the market for minimally invasive neuro-endoscopy.
- The technology has been developed up to laboratory scale and prototype also developed.
- The invention has been validated by third party.
- It is developed by All India Institute of Medical Sciences, Delhi and Indian Institute of Technology, Delhi in collaboration with ICMR.
- Application for Indian patent and international application through PCT have been filed.
- The technology is also Design protected.