Microsurgical Training Laboratory

Training in microsurgical neuroanatomy is a priority for neurosurgical education. During the 20th century, microsurgical laboratories arose and provided a way to develop surgical skills. Few reports addressed the assembly, construction, and details of a training laboratory.

Goiri et al. conducted a literature review and searched legislation on the need to plan the structure of the laboratory. They projected and built a laboratory through a public-private partnership. High-tech workstations and instruments were planned to meet the needs of residents, fellows, and student. All steps and materials were in accordance with the Brazilian legislation and articles previously selected. They described the experience and demonstrated the implementation of a micro neurosurgical skills laboratory. [1)].

Khachatryan et al. suggested a methodology as to how to organize an inexpensive microsurgical training laboratory with minimal investment. Suggested guidelines provide information about cost-effective ways of arranging a comfortable training environment. An adapted stereoscopic microscope allows working with a wide range of magnification and focus distance. An ergonomic working position is set up by adjustable handmade table and chair. For performing basic microsurgical manipulations, a set of four instruments and inexpensive suture materials are used. A total amount of 323.5 USD was spent to purchase all of the necessary components for the microsurgical laboratory. The described components are available worldwide regardless of manufacturers. We suggest an inexpensive way to arrange a microsurgical laboratory. This approach is especially beneficial for students and residents from low-income countries [2)].

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