About WSSFN

STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

A Contemporary Definition by Members of the WSSFN and ESSFN

1. Introduction

Stereotactic surgery dates back to 1908, one century ago, when Sir Victor Horsley and Robert Clarke introduced their new apparatus to insert a probe or needle under accurate control into subcortical stuctures in an experimental animal model.

The definition of Stereotactic and Functional Neurosurgery was debated formally for the first time, in 1973 during the first meeting of the World Society for Stereotactic and Functional Neurosurgery (Philip L. Gildenberg). Since this period, general neurosurgery has made great progress influenced by new technical developments (minimal-invasive surgery, image-guided surgery, neuronavigation, radiosurgery, frarneless brain biopsy, etc).

On the other hand, many particular topics remained within the frame of the special field of stereotactic and functional neurosurgery (for example movement disorders surgery, pain surgery, CNS drug-infusion, cell therqay, etc). Within this context an appropriate contemporary definition of Stereotactic and Functional Neursurgery is sougit for. The following definition is a synthesis and a consense after discussion among a group of experts.

2. A Contemporary Definition

Synthesis of propositions from A. Lozano, M. Hariz, P. L. Gildenberg, J. K. Krauss, S. Blond, G. Broggi, and Y. Lazorthes Stereotactic and Functional Neurosurgery is a branch of neurosurgery that utilizes dedited structural and

functional neuroimaging to identify and target discrete areas of the brain and to perform specific interventions (for example ablation, neurostimulation, neuromodulation, neurotransplantation, and others) using dedicated instruments and machinery in order to relieve a variety of symptoms of neurological and other disorders and to improve function of both the structurally normal and abnormal nervous system.

History of the World Society for Stereotactic and Functional Neurosurgery

- 1961 International Society for Research in Stereoencephalotomy founded, Philadelphia
- 1963 International Society for Research in Stereoencephalotorny chartered, Philadelphia
- 1973 Name changes to World Society for Stereotactic and Functional Neurosurgery, Tokyo
- 1977 First Speigel-Wycis Award presented to Lars Leksell at Seventh Meeting in São Paulo
- 1981 European Society for Stereotactic and Functional Neurosurgery becomes independent society, Zurich