

Stereotaxy

Stereotaxy describes a [neurosurgical procedure](#) that is characterized by image-guided and computer-assisted targeting systems to ensure the exact [position](#) of the patient in relation to the therapy device.

see [Stereotactic surgery](#).

see [Robotic Stereotaxy](#).

Stereotaxy is a [neurosurgical technique](#) that can take several hours to reach a specific [target](#), typically utilizing a mechanical [frame](#) and guided by preoperative [imaging](#). An error in any one of the numerous steps or deviations of the target [anatomy](#) from the preoperative plan such as [brain shift](#) (up to mm), may affect the targeting accuracy and thus the treatment effectiveness ¹⁾.

¹⁾

Li G, Su H, Cole GA, Shang W, Harrington K, Camilo A, Pilitsis JG, Fischer GS. Robotic system for MRI-guided stereotactic neurosurgery. IEEE Trans Biomed Eng. 2015 Apr;62(4):1077-88. PubMed PMID: 25376035; PubMed Central PMCID: PMC4428978.

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