

Spine surgery history

see <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7788429/>

The first successful [laminectomy](#) was performed by Smith ¹⁾ in [1828](#) in the [United States](#)

In [2004](#), the [SpineAssist](#) ([Mazor Robotics](#) Ltd., Caesarea, Israel) was the first [robot](#) approved by the [FDA](#) for use in [spinal surgery](#) and remained one of the most widely used ²⁾. The SpineAssist is a shared-control robot that offers [navigation](#) superior to traditional intraoperative navigation. Although [cost](#) is a limiting factor, future generations of robots have immense potential to improve spine surgery for both patients and providers alike ³⁾.

¹⁾

Smith AG. Account of a case in which portions of three [dorsal vertebrae](#) were removed for the relief of [paralysis](#) from [fracture](#), with partial success. N Am Med Surg J. 1829;8:94-7.

²⁾

Shweikeh F, Amadio JP, Arnell M, et al. Robotics and the spine: a review of current and ongoing applications. Neurosurg Focus. 2014;36:E10.

³⁾

D'Souza M, Gendreau J, Feng A, et al. Robotic-assisted spine surgery: history, efficacy, cost, and future trends. Robot Surg. 2019;6:9-23.

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