

Sublaminar polyester band

Pedicle screws, laminar/pedicle/transverse process hooks, and sublaminar metal wires have been incorporated into posterior spinal constructs and widely reported and used in the thoracic and lumbar spines and sacrum with varying success.

A report from Desai et al. demonstrates the satisfactory radiological outcomes of hybrid posterior spinal constructs in pediatric and adult neuromuscular scoliosis that include sublaminar polyester bands that promise the technical ease of passing sublaminar instrumentation with the immediate biomechanical rigidity of pedicle screws and hooks. However, the high neurological complication rate associated with this technique (2/21, or 10%) tempers the acceptable radiographic outcomes ¹⁾.

¹⁾

Desai SK, Sayama C, Vener D, Brayton A, Briceño V, Luerssen TG, Jea A. The feasibility and safety of using sublaminar polyester bands in hybrid spinal constructs in children and transitional adults for neuromuscular scoliosis. J Neurosurg Pediatr. 2015 Mar;15(3):328-37. doi: 10.3171/2014.9.PEDS1468. Epub 2015 Jan 2. PubMed PMID: 25555118.

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