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Concurrent Tethered Cord Release and Growing-Rod Implantation—Is It Safe?

Abstract

Study Design Retrospective case series from one institution with a comparison control group.

Objective To evaluate the safety of concomitant tethered cord release and growing-rod insertion in individuals with early onset scoliosis.

Methods We retrospectively reviewed patients who underwent concurrent tethered cord release and growing-rod insertion. We compared our data to a comparison control group of eight patients who underwent staged tethered cord release and growing-rod insertion.

Results We identified three patients meeting criteria. There were no neurological complications in the three patients who underwent concomitant surgery. Average immediate postoperative curve correction was 43.3 degrees (47.6%). We identified seven patients who underwent staged surgery from a multicenter prospective database. No neurological complications were reported, and average immediate postoperative correction was 35.1 degrees (46.2%).

Conclusion We believe that concurrent tethered cord release and growing-rod insertion can be performed safely with the use of multimodality neurophysiological monitoring techniques.

同時進行放鬆牽扯脊髓和植入成長棒，它是安全的嗎？

研究設計 回顧一所大學的病例系列及比較對照組。

目的 評估合併放鬆牽扯脊髓和植入成長棒對早發性脊柱側凸患者的安全。

方法 回顧性分析同時進行放鬆牽扯脊髓和植入成長棒的患者。我們比較我們的資料與比較對照組的 8 個分段接受放鬆牽扯脊髓和植入成長棒的患者。

結果 我們確定了 3 位病人符合標準。3 位病人在同時接受兩種手術時都沒有出現神經系統並發症。平均術後即時曲線修正為 43.3 度（47.6%）。我們在多中心前瞻性資料庫確定了 7 位接受分段手術的病人。沒有報告發生神經系統並發症，而平均術後即時修正為 35.1 度（46.2%）。

結論 我們相信在使用多形式神經生理監測技術下，同時進行放鬆牽扯脊髓和植入成長棒可以安全地執行。