论文补充材料

单侧双通道内镜治疗胸椎黄韧带骨化症的研究进展

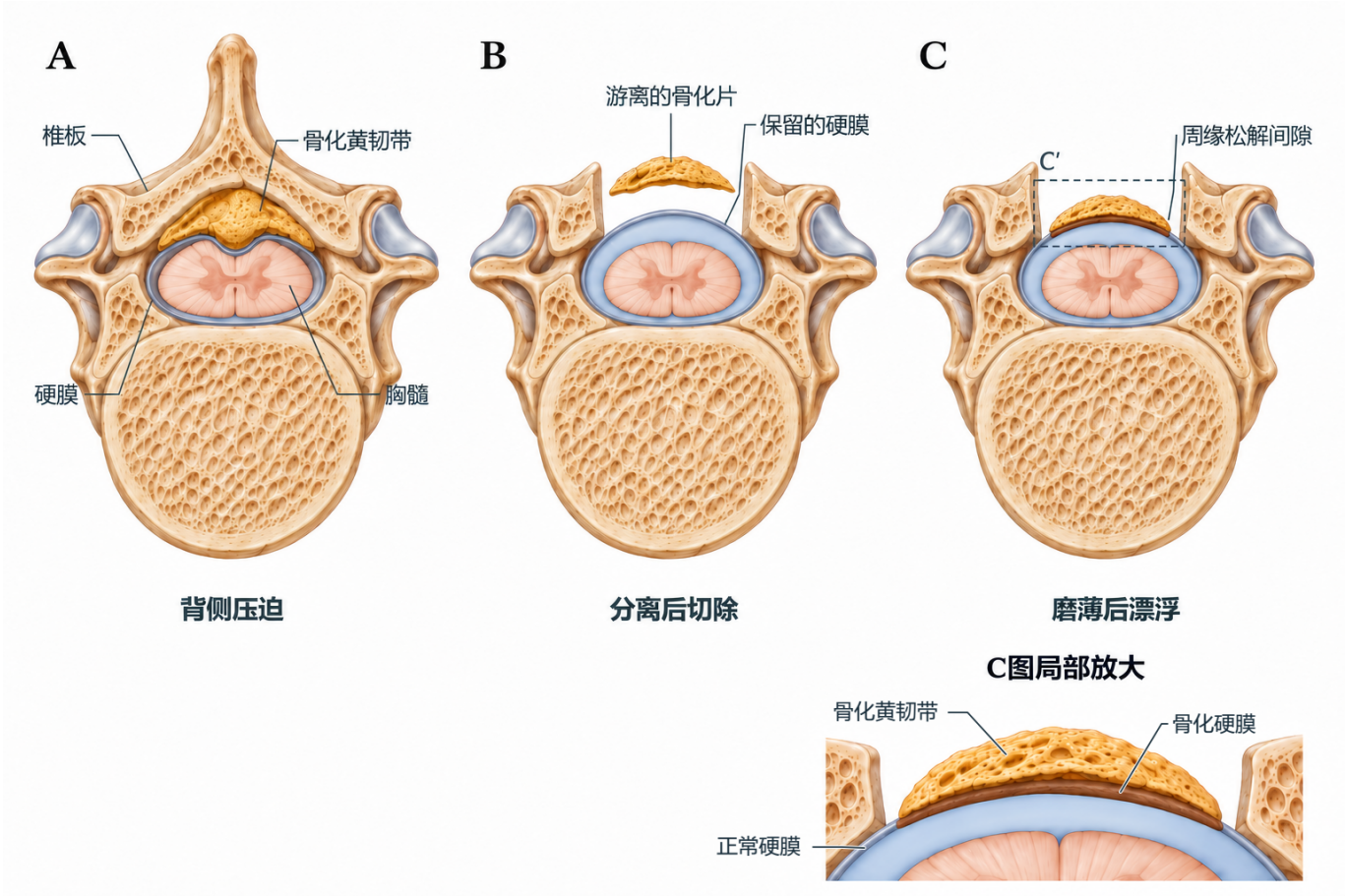


图1 胸椎黄韧带骨化症骨化物切除与漂浮减压示意图

A：骨化黄韧带自背侧压迫硬膜囊及胸髓。B：存在分离平面时，磨薄并游离骨化物后取出，保留硬膜。C：中央骨化物与骨化硬膜融合且两侧硬膜可扩张时，磨薄骨化物并松解周缘，保留中央融合部分。C′示C图融合区局部放大。B、C表示不同分离条件。图示依据文献[14,18]所述手术原理。

参考文献（编号与主稿一致）

[14] Kim JY, Choi SY, Lee DC, et al. Biportal Endoscopic Techniques for Severe Dural Ossification in Thoracic Ossification of the Ligamentum Flavum: Insights From Preoperative Imaging[J]. Neurospine, 2025, 22(3): 819-828. DOI: 10.14245/ns.2550338.169.

[18] Kim JY, Ha JS, Lee CK, et al. Biportal Endoscopic Posterior Thoracic Laminectomy for Thoracic Spondylotic Myelopathy Caused by Ossification of the Ligamentum Flavum: Technical Developments and Outcomes[J]. Neurospine, 2023, 20(1): 129-140. DOI: 10.14245/ns.2346060.030.