

Corrective Surgery for adolescent idiopathic scoliosis

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Adolescent scoliosis refers to scoliosis that appears from just before puberty to when skeletal growth is complete, and the goal of treatment is the creation of a balanced spine.

In recent decades, the development of posterior fixation devices and a deep understanding of curvature have established effective principles for determining the extent of fusion level, enabling better postoperative patient care and deformity correction.

Although the "Corrective Surgery for idiopathic scoliosis" is a fundamental operation in orthopedics with a long history, it requires an in-depth approach from various directions, such as confirmation of surgical indications, preoperative planning, intraoperative patient monitoring, detailed technical aspects, and postoperative patient management. Surgery can only be performed in limited hospitals that meet the above demands.

"Corrective Surgery for idiopathic scoliosis" is not an operation that all residents undergoing orthopedic training can easily access, and it is difficult to understand the exact surgical process only by searching for the literature.

Authors prepare and submit a detailed video about the surgical treatment process for adolescent idiopathic scoliosis patients at author's hospital.

In addition to a detailed description of the surgical procedure, we will also access the important process to achieve satisfactory postoperative outcome in corrective surgery for adolescent idiopathic scoliosis.

Fusion level selection is an important process and exacting screw insertion is demanded. Using the combination of convex compression and concave distraction with separate-rod derotation is an effective method to correct proximal and main thoracic curves, with reliable achievement of postoperative thoracic kyphosis and shoulder balance.

We hope that this academic video exhibition will be helpful to many trainees and scholars who are exploring for deep academic knowledge.