In Situ arthrodesis may lead to long-term sagittal-balance issues in aging patients with high-grade spondylolisthesis.

Sagittal balance and health-related quality of life was evaluated 3 decades after in situ arthrodesis for high-grade spondylolisthesis

- 3/28 had global sagittal imbalance (T1 spinopelvic inclination of >0°) 
- No significant difference between preoperative L5/S1 slip and the 30-year follow-up
- No association between any radiographic parameter and health-related quality of life

In Situ arthrodesis in youths with high-grade spondylolisthesis does not lead to radiographic or clinical sagittal imbalance at middle age.

\[ \text{slip} = \frac{a}{b} \]

- \( a = \) dislocation length (mm)
- \( b = \) sagittal length of L5 lower end plate (mm)

Sagittal Balance and Health-Related Quality of Life Three Decades After in Situ Arthrodesis for High-Grade Isthmic Spondylolisthesis

Joelson et al. (2018)  DOI: 10.2106/JBJS.17.01415