

## Decision algorithm

|                   | Type      | Pelvic incidence | Balanced pelvis | Lumbosacral kyphosis | Balanced spine | Recommended treatment   |           |
|-------------------|-----------|------------------|-----------------|----------------------|----------------|---|-----------|
|                   |           |                  |                 |                      |                | Technique   | Reduction |
| <b>LOW GRADE</b>  | <b>1</b>  | < 45°            | Yes             | No                   | Yes            | - Primary repair with pars screw<br>- Primary repair with pedicle screw and rod (for large habitus)   | No        |
|                   | <b>2</b>  | 45-60°           | Yes             | No                   | Yes            | - Anterior fusion of L5-S1 (stand alone)<br>- Posterior fusion of L5-S1 (without interbody fusion)<br>- MIS Posterior fusion of L5-S1 (with interbody fusion) | No        |
|                   | <b>3</b>  | > 60°            | Yes             | No                   | Yes            | - Posterior fusion of L5-S1 (with interbody fusion)<br>- MIS Posterior fusion of L5-S1 (with interbody fusion)<br>- Combined anterior and posterior fusion    | No        |
| <b>HIGH GRADE</b> | <b>4</b>  | > 60°            | Yes             | No                   | Yes            | - Posterior fusion of L5-S1 (with interbody fusion)<br>- Bohlmann interbody fusion  | No        |
|                   | <b>5a</b> | > 60°            | Yes             | No                   | Yes            | - Posterior fusion of L5-S1 (with interbody fusion)<br>- Bohlmann interbody fusion  | No        |
|                   | <b>5b</b> | > 60°            | Yes             | Yes                  | Yes            | - Posterior fusion of L4-S1 (with interbody fusion)<br>- May consider only L5-S1  | Yes       |
|                   | <b>6</b>  | > 60°            | No              | Yes                  | No             | - Posterior fusion of L4-Pelvis (with interbody fusion)   | Yes       |