

Supplemental Table 1. Mechanisms of failure

| Mechanism of failure | Definitions |
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| Screw ploughing | Translation of pedicle screw perpendicular to its long axis (sagittal/coronal) |
| Screw loosening | Radiolucent halo around the screw of 1 mm or more |
| Screw pull-out | Translation of pedicle screw parallel to its long axis |
| Screw cut-out | Continued ploughing leading to disruption of end plate/pedicle walls/vertebral body |
| Screw/rod breakage | Fracture of screw/rod anywhere along its entire length |
| Cage subsidence | Sinking in of the cage along its vertical axis from the original position which can be discerned radiologically |
| Cage displacement | Anteroposterior or mediolateral displacement or tilting of cage |
| Cage breakage | Fracture or disengagement of cage seen on radiographs |
| Angular deformity | Increase or decrease in the sagittal angulation of the end vertebrae of the construct |
| Peri-construct failure | Tumor progression or skeletal fractures in the subjacent levels that require revision or extension of constructs |

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