RADIOLOGICAL ASSESSMENT OF POST-OPERATIVE SLIP PERCENTAGE AND SLIP ANGLE OF SPONDYLOLYTIC LISTHESIS AFTER POSTERIOR LUMBAR INTERBODY FUSION

Yasser Mohsen Allam, Mahmoud Elsayed Nafady, Ibrahim Abdel-Fattah Ibrahim Eltaweal Department of Orthopaedic Surgery and Traumatology, Faculty of Medicine, University of Alexandria.

Introduction

Lumbar spondylolisthesis is a common spinal condition in adults. The cranial vertebra sliding over the caudal one causes changes in the morphology of the neural foramen. Low back pain is the common presentation with or without radiculopathy mostly at L4-5 and L5-S1.

Wiltse and Newman classification: is the most practical and most widely accepted classification. including degenerative, isthmic, dysplastic, traumatic and pathologic.

Isthmic (spondylolytic) Spondylolysis is a condition where there is defect in the pars interarticularis. A unilateral or bilateral, which commonly occurs at L4 or L5 vertebrae.

Non operative treatment is mainly conserved for those with no or mild neurologic complains, no spinal deformities nor gait abnormalities. And when low back pain is the predominant presentation. However some patients will ultimately require surgical intervention. Accepted indications for surgery include persistent or intolerable leg or back pain, progressive deformity (unusual in adults), worsening neurologic symptoms including foot drop and bowel or bladder dysfunction.

Aim of the work

The aim of the work was radiological assessment of post-operative slip percentage and slip angle of Spondylolytic listhesis cases after posterior lumbar interbody fusion through retrospective evaluation.

Patients and Methods

PATIENTS:

This study included 20 adult patients suffering from symptomatic lumbar and /or lumbosacral spondylolytic listhesis of varying grades and were treated in spine unit, Al-Hadra University Hospital.

Patients included in our study suffered from single level spondylolytic listhesis of grades I and II according to the Meyerding grading system. These patients were considered and indicated for surgical treatment due to failure of conservative treatment 6 months, or they presented initially with neurological deficits.

METHODS:

including:

telephone number.

2- Radiological evaluation:

- and discal tissues.
- C) Computed tomography (CT scan)

Results

angle ranged from +10 ° to -18 ° with a mean of $3.45 \circ \pm 6.21 \circ$. the mean post-operative percentage slip was $10.55\pm9.864\%$.

