How to decrease scapula notching?

Retrospective multicenter study on 90 reversed prosthesis

with analyse of gleno metaphyseal angle

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Introduction

The aim of the retrospective multicenter study was to correlate the functional results with ... the gleno metaphyseal angle
Material & Methods

Prospective Multicenter Evaluation

N= 90 patients

4 years
3 centers
8 surgeons 3 groups

Pre OP
Per OP
Post OP
3 mo
6 mo
1 year
2 years
3 years

and evaluated retrospectively by an independent surgeon ... AT same follow up

QuickDash score
Constant score
clinical and radiological complications / glenometaphyseal angle
Material & Methods  3 prosthesis

1rst generation of reversed prosthesis (4 surgeons)
humeral neck angle of 155°, Aequalis-Reversed  Tornier®

BioRSA (2 surgeons)
humeral neck angle of 155°,
lateralization of center of rotation

Last generation of reversed prosthesis (3 surgeons)
more vertical angle of 145°,
Humelock-Reversed, FX-Solutions®
Results: N=90

The GAIN between pre & post op:
Abduction: 58,6° (-10°/140°)
Flexion (AEA): 62,6° (-15°/130°)
Constant Brut: 36,5 points (7-53,5)
Constant with ponderation: 53,2 % (9,8-83,1)
QuickDash: 45,3 points (0-88,6)

Mobility and functionnal scores:

No differences depending on the type of implant
significantly better in the group implanted after 2012
than before 2010
Results

Gleno metaphyseal angle: 37.5°
The quantity of notch were significantly lower when
The angle was between 35° and 45°
Results

Notch: 35%

No notch in FX group ... 57% in the 2 other groups

Most frequent with superior approach

Bio RSA: 46% partial or total lysis
Conclusion

You can reach the right gleno metaphyseal angle (35-45°)...
In playing on the glenoid part (tilt, low implantation of metaglene)
Or in the humeral part (verticalisation of humeral angle : 145°)
Or both … FX solution …