The application of calcaneal Z osteotomy in treating type II B adult acquired flatfoot deformity

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disclosure

I and my co-authors have nothing to disclose.

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Objective:

- A retrospective control study to evaluate the application of calcaneal Z osteotomy in treating type II B adult acquired flatfoot deformity.
Methods:

- Sep 2011 - Mar 2013, 20 II B AAFD cases
- Calcaneal Z osteotomy combined with medial soft tissue reconstructing.
- 4 males and 16 females, mean age 52.6 years (49 - 72).
- The medial soft tissue procedure: posterior tibial tendon resection and Flexor digitorum longus tendon transfer.
- AOFAS score and radiological assessments were used to evaluate the conditions before and after operation.
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Results:

- 19 patients, 26.5 months (18-56) follow-up.
- AOFAS scores were 80-90 points in 11 patients, 90-100 points in 6 patients and the excellent and good rate was 89% (17/19).
- The anteroposterior talocalcaneal angle decreased by 12°, lateral talar first metatarsal angle decreased by 15°, and talonavicular coverage angle decreased by 7°. ($P<0.01$).
- No calcaneal-cuboid joint symptom. All cases got good bone healing.
Conclusions:

- The calcaneal Z osteotomy can correct the hind-foot deformity in three dimensions.
- can act as a lateral column lengthening.
- The complication of this procedure is minimal.
references

Thank you

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