THE SIGNIFICANCE OF INTRAOPERATIVE FIRST METATARSAL TRACTION TEST IN HALLUX VALGUS SURGICAL DECISION MAKING

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Our disclosures are in the Final AOFAS Mobile App. We have no potential conflicts with this presentation.
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- using an intraoperative first metatarsal traction test in hallux valgus correction surgery in decision making of the procedure choice and operation designs
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We used the intra-operative first metatarsal traction test to judge the grade of laxity of the first tarsometatarsal joint and the factual IMA and thus help to make the decision of the level of osteotomy and or fusion.
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- the congruence of the surface of 1st MPJ $>\frac{1}{2}$: Distal Chevron Osteotomy
- the congruence of the surface of 1st MPJ $<\frac{1}{2}$: Proximal Scarf Osteotomy
- complete incongruent dislocation of 1st MTP joint: Lapidus Procedure
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The patients of the intraoperative traction test group had average higher satisfaction rate with more reliable improvement of symptoms and less postoperative complications.
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The intraoperative traction test of first metatarsal objectively guided the decision making of procedure choice and operation design optimization. The traction test gave a reliable assessment of the laxity of first TMT thus avoiding inadequate correction of Hallux Valgus with improper surgical designs. The test can be potentially used as an objective intraoperative guidance in avoidance of inadequate correction with inappropriate surgical choices and thus maintain the correction in the long term with patient satisfaction.
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