TIME AND COST COMPARISON OF THE MEDIAL DOUBLE AND TRIPLE ARTHRODESES

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Disclosure

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My disclosure is in the Final AOFAS Program Book. I have no potential conflicts with this presentation.
Why the Medial Double?

• Adequate access for joint preparation\(^1\)
• Excellent deformity correction with good fusion rates\(^2\)
• Less soft tissue complications\(^3\)
Purpose

To compare the hardware costs & operative time between the medial double & triple arthrodeses as there is no published data to date.
Hypothesis

The medial double would have less hardware costs & shorter operative time
Methodology

• Retrospective chart review via CPT codes
  – 21 medial double & 26 triple arthrodesis pts
    • No significant difference in Age, BMI, Sex, Diabetes, Chronic Steroid Use, Immune Compromised State, Kidney Disease, Liver Disease, Tobacco Abuse or Surgical Side

• Time data from OR records
  – Total OR time & surgical procedure time analyzed

• Implant cost data via hospital billing records
Medial Double was Faster

- @ Statistical Significance

Mean OR Time (mins): $p = 0.0028$

Mean Procedure Time (mins): $p = 0.0033$
Medial Double was Cheaper

Mean Hardware Cost: p<0.0001
Discussion

This retrospective review confirms many of the medial double’s theorized benefits. On average, this procedure was faster & associated with less cost than its triple counterpart. Data is promising *but* larger, multi-facility studies are warranted.
References