

# Prospective comparison between conventional transseptal puncture and transseptal needle puncture with radio frequency energy

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## HIGHLIGHTS

- ▶ This study compared the safety and efficacy of radiofrequency (RF) transseptal puncture to the conventional technique.
- ▶ The average time for the RF transseptal puncture was 4.8 minutes compared to 7.5 minutes for the conventional technique ( $p=0.045$ ).
- ▶ The average fluoroscopy time for the RF transseptal puncture was 1.8 minutes compared to 2.9 minutes for the conventional technique ( $p=0.043$ ).
- ▶ RF transseptal puncture was successful in all patients. Four patients undergoing the conventional technique required crossover to the RF transseptal puncture ( $p=0.003$ ).

Comparison between RF Needle and Standard Needle (Minutes)

