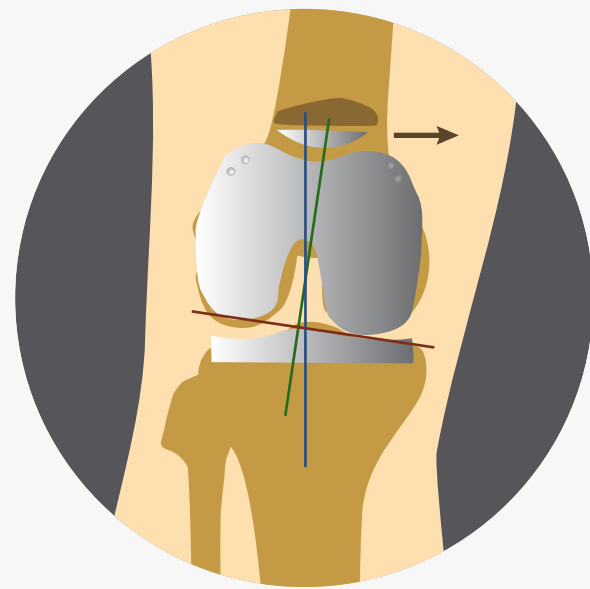


# Surgeon-Related Factors Leading to Total Knee Arthroplasty Outliers

Malalignment in Total Knee Arthroplasty (TKA) setting may predispose patients to prosthetic failure...



...but surgeon-specific factors responsible for failure rates have not been fully investigated

Radiographic analysis of 1,570 primary TKAs without complications performed by



High-volume non-trainees (HVNT)  
n = 730

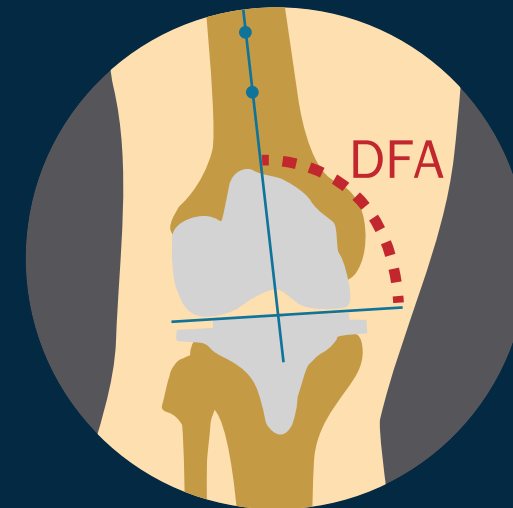


Low-volume non-trainees (LVNT)  
n = 230

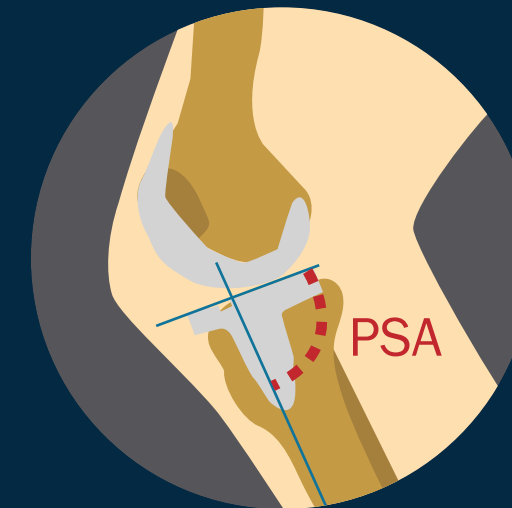
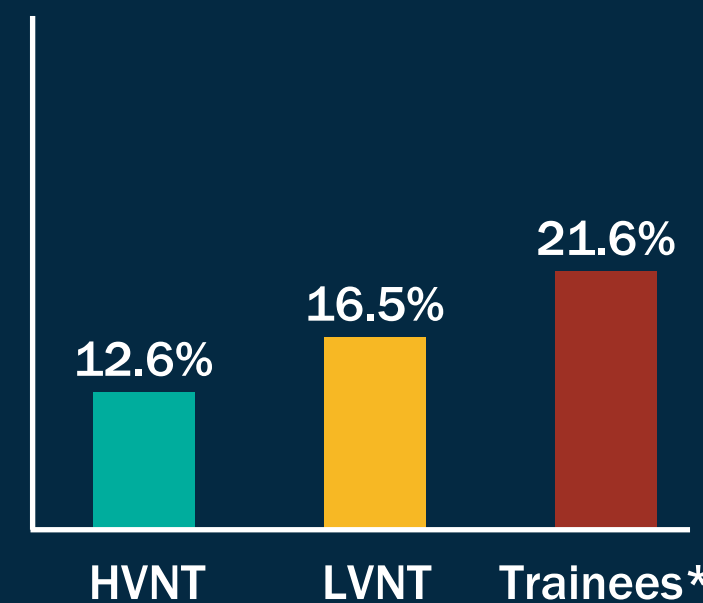


Trainees  
n = 610

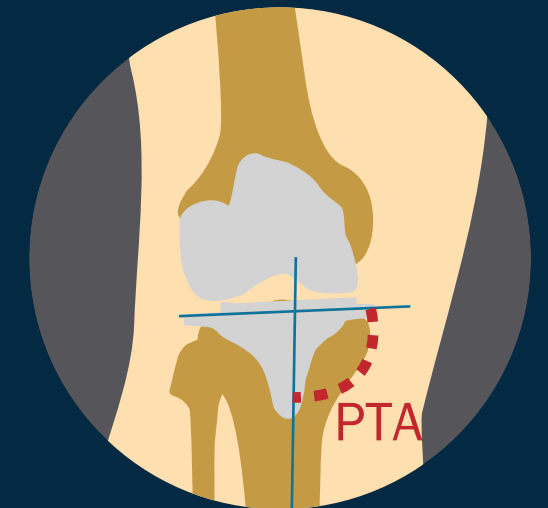
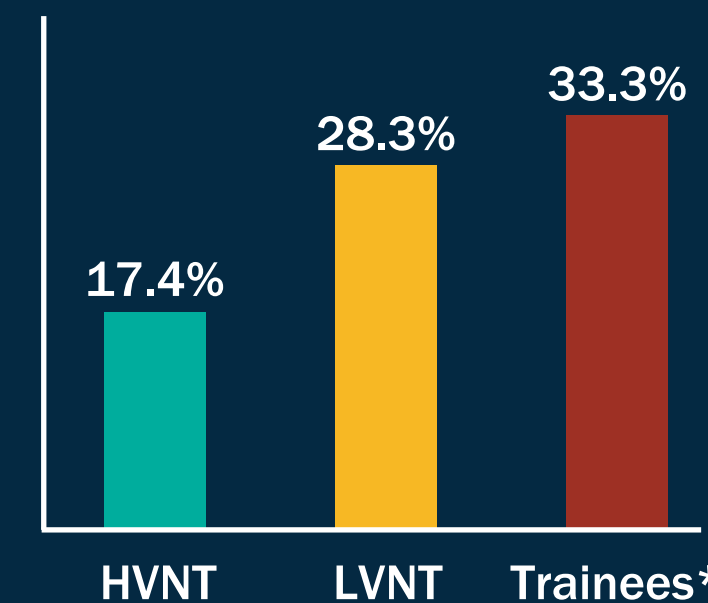
## Frequency of outlier measurements



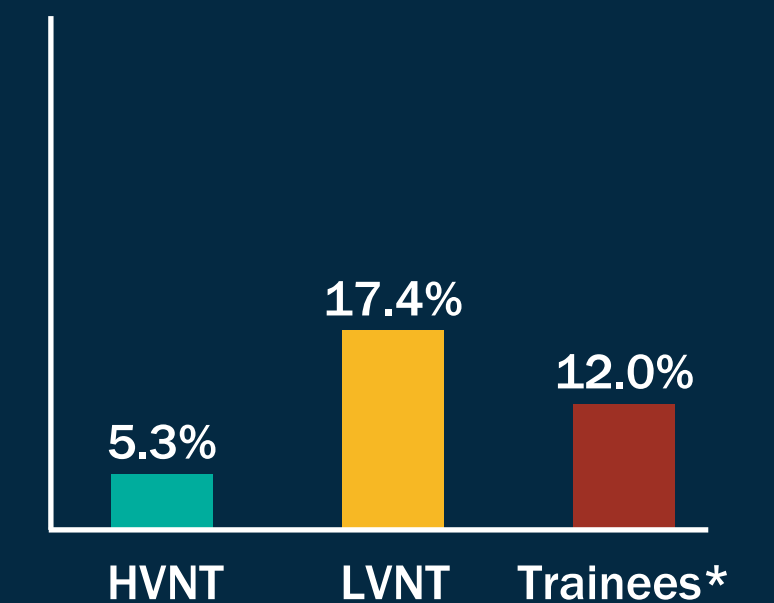
Medial distal femoral angle (DFA)



Posterior tibial slope angle (PSA)



Medial proximal tibial angle (PTA)



\*Trainees were not inferior to LVNTs



**Low surgical volume and trainee status were risk factors for outlier malalignment in primary TKA**

The Impact of Surgeon Volume and Training Status on Implant Alignment in Total Knee Arthroplasty

Kazarian et al. (2019) DOI: 10.2106/JBJS.18.01205

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