

## **Original Article**

### **Imageless Computer Navigation in Total Knee Arthroplasty—The Pitfalls 無影像計算機導航系統在全膝關節置換術的困難和風險**

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#### **Abstract**

Correct implant positioning and mechanical alignment are crucial for long-term survival of the total knee prosthesis. Imageless navigation can improve the femoral and tibial component position in the sagittal and coronal planes, as well as the overall lower limb mechanical axis. However, there are pitfalls related to the imageless computer navigation systems in total knee arthroplasty. We need to know these pitfalls and weight against the benefits of this new technology.

#### **中文摘要**

正確假體位置和正確機械列線為全膝關節置換長期生存的關鍵。無影像導航可改善股骨假體和脛骨假體組在前面和側面的位置，以及更準確的整體機械軸線。然而，無影像計算機導航系統在全膝關節置換也有存在困難和風險。我們需要知道這些困難和風險才去衡量這種新技術的好處。

**Keywords:** *knee arthroplasty, navigation*