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논문제목 네비게이션을 이용한 인공관절 전치환술에서 네비게이션 장치상 하지  
계측치와 방사선학적 하지 계측치의 후향적 비교  
영문제목 **Differences in lower limb alignment among different navigation  
methods and radiograph in total knee arthroplasty**  
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증례 (or 수술술기) : This study has two purposes. The first is to compare the lower limb alignment between measurement with radiograph and measurement during computer assisted surgery (CAS). The second is to evaluate the discrepancy in lower limb alignment between CAS with high tibial osteotomy (HTO) protocol and CAS with total knee arthroplasty (TKA) protocol in same knee via measurement.

**acknowledgment :**

Total knee arthroplasty, computer assisted surgery, navigation, mechanical axis

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