
언어구분 KOR 논문구분 원저/구연 논문분야 슬관절
논문제목 싱글번들과 더블번들 전방 십자인대 재건술시 대퇴, 경골 터널 비교 분석
Comparative Analysis of Femoral and Tibial Tunnel Locations
영문제목 **in Single-Bundle and Double-Bundle Anterior Cruciate**
Ligament Reconstructions
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서론 : Reconstruction of the anterior cruciate ligament (ACL) requires exact tunnel positioning. The purpose of this study was to assess the tunnel positions of transtibial single bundle (SB) versus transportal double bundle (DB) ACL reconstruction using three-dimensional (3D) CT.

재료 및 방법 : Reconstruction of the anterior cruciate ligament (ACL) requires exact tunnel positioning. The purpose of this study was to assess the tunnel positions of transtibial single bundle (SB) versus transportal double bundle (DB) ACL reconstruction using three-dimensional (3D) CT.

결과 : The femoral tunnel position for the transtibial SB technique was rather shallow than that of AM tunnel and in a higher position than the PL tunnel of transportal DB technique. The tibial tunnel position with the transtibial SB technique was located between the AM and PL tunnel positions for transportal DB technique. When compared with previous studies, our femoral AM tunnel of transportal DB technique was placed rather shallow (30.48%) and high (17.12%) in the femoral condyle. The femoral PL tunnel was also rather shallow (34.76%) and high (45.55%) in the femoral condyle. The tibial AM tunnel position (33.76%) was similar to that in previous reports; however, the tibial PL tunnel positioned deeper (53.19%).

결론 : Three-dimensional CT images provided a good visualization of the ACL tunnel and had excellent reliability regarding tunnel position measurements on both the femoral and tibial sides. Using this measuring method, the location of the tibia tunnel may be between the AM and PL footprints, but the center of the femoral tunnel were at the AM bundle footprint when ACL reconstruction was performed by the transtibial SB technique.

acknowledgment : Use of the transtibial technique in ACL reconstruction makes it difficult to position the femoral tunnel in the center of the ACL footprint in the lateral femoral condyle.

Anterior cruciate ligament reconstruction; Single bundle; Double bundle; Tunnel; Position
