

언어구분	KOR	논문구분	원저/구연	논문분야	슬관절
논문제목	경골 터널 독립적 이중다발 전방 십자인대 재건술의 실제 전방 십자인대를 대체하는지에 대한 고찰				
영문제목	Does the tibial-tunnel independent anatomical double-bundle reconstruction really restore the native anterior cruciate ligament ?				
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서론 : There are two tibial-tunnel independent anatomical anterior cruciate ligament (ACL) reconstruction methods, transportal(TP) and outside-in(OI) technique. But almost studies were evaluated the foot-print of reconstructed graft compared the reference points from anatomical studies. Because the morphology of distal femur is varied in individual, the reconstructed ACL must be close to native ACL, not the standard ACL along the concept of anatomical reconstruction.

재료 및 방법 : There are two tibial-tunnel independent anatomical anterior cruciate ligament (ACL) reconstruction methods, transportal(TP) and outside-in(OI) technique. But almost studies were evaluated the foot-print of reconstructed graft compared the reference points from anatomical studies. Because the morphology of distal femur is varied in individual, the reconstructed ACL must be close to native ACL, not the standard ACL along the concept of anatomical reconstruction.

결과 : In sagittal plane, the mean AM graft angles were 54.9 degree in the TP group and 53.7 degree in the OI group. The mean AM bundle angles in native knee were 54.7 degree in both TP and OI group. The mean absolute differences between reconstructed graft and native bundle were 2.26 degree in the AM group, and 3.25 degree in the OI group. There are no statistical significance between the angle of reconstructed knee and contralateral native knee in TP group, OI group and all of two groups. For PL graft, the mean absolute differences were increased to 6.60 degree in TP group and 6.15 degree in OI group, but, there are also no statistical significance between them. In coronal plane, the results were also no statistical significance in AM and PL graft.

결론 : The two tibial-tunnel independent femoral tunnel formation techniques, transportal and outside-in technique, can restore the both sagittal and coronal angle of native ACL graft in contralateral knee.

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ACL reconstruction, ACL, knee
