MIDTERM RESULTS OF ANTERIOR CRUCIATE LIGAMENT REPAIR WITH SUTURE TAPE AUGMENTATION



GP Hopper, JMS Aithie, JM Jenkins, WT Wilson, GM Mackay

Department of Orthopaedics, Rosshall Hospital, Glasgow



INTRODUCTION

- The aim of this study was to assess the 2-year patientreported outcome measures of ACL repair with suture tape augmentation
- We hypothesized that significant improvements would be seen in the PROMs with fewer re-ruptures than those described in historic literature

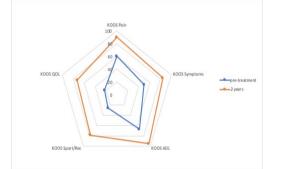
METHODS

- 137 consecutive patients were prospectively followed up for a minimum of 2 years
- Inclusion criteria for this procedure were acute proximal tears with adequate ACL tissue quality
- Patients with mid-substance, distal ACL ruptures, retracted ACL remnants and multi-ligament injuries were excluded
- KOOS, WOMAC, VAS, VR-12 and Marx Activity Scale were collected preoperatively and at 24 months postoperatively
- Postoperative complications were identified at the time of this analysis



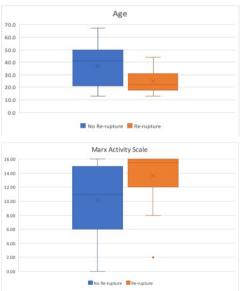
RESULTS

- Three patients were lost to follow-up and 19 patients had incomplete data leaving 115 patients in the final analysis for PROMS (83.9%)
- The mean KOOS at 2 years was 89.8, 84.7, 95.5, 78.6 and 72.9 for pain, symptoms, ADL, sport/recreation and QOL respectively. These improved significantly from 60.1, 49.9, 67.1, 26.0 and 22.5 preoperatively (p<0.001)</p>



- The mean WOMAC scores at 2 years were 94.2, 87.6 and 95.5 for pain, stiffness and function respectively. These improved significantly from 71.8, 57.7 and 67.1 preoperatively (p<0.001)</p>
- The VAS score improved from 3.1 to 1.0
- VR-12 score improved from 34.2 to 53.1 at 2 years (p<0.001)
- The Marx activity scale decreased from 10.6 to 8.1 at 2 years (p<0.001)</p>

- 134 patients (97.8%) were contactable regarding postoperative complications with 22 patients suffering from re-ruptures (16.4%)
- These patients were found to be significantly younger (p<0.001) and have significantly higher Marx activity scores (p<0.01)



CONCLUSION

This study demonstrates excellent PROMS and good survivorship results of ACL repair with suture tape augmentation, therefore it is an effective alternative to traditional ACL reconstructions in appropriate cases.