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الملخص العربى :-

لقد تم بذل الكثير من الجهد لتحليل الوظيفة الميكانيكية للرباط الصليبي الأمامي والتغيرات التي يمكن أن تحدث نتيجة تمزقه . وذلك لأنه يعد أكثر أربطة الركبة عرضه للإصابة .

وعندما يتمزق الرباط الصليبي الأمامي وبعض الأربطة المحيطة بالركبة فإنه يؤدي إلى الإرتخاء الأمامي للركبة مع عدم ثباتها .

إن العمليات الجراحية المتاحة لإستعادته ثبات الركبة يمكن أن تقسم إلى شقين ، الشق الأول وهى عمليات جراحية تتم داخل مفصل الركبة أما الشق الثانى فهو عمليات جراحية تتم خارج المفصل .

أما بالنسبة للعمليات التي تتم داخل المفصل فالهدف منها هو استعواض الرباط الصليبي الأمامي بواسطة رقعه حيويه أو نسيج صناعى .
إن استخدام الأنسجة الصناعية فى استعواض الرباط الصليبي الأمامي للركبة قد حازت على شعبيه كبيرة وقد زاد الإهتمام باستخدام مثل هذه الأنسجة فى الآونة الأخيرة.

ويكون الهدف من استخدام الأنسجة الصناعية هو

(١) استخدام النسيج للإستعواض النهائى للرباط الأصى .

(٢) حماية مؤقتة أو زيادة فاعليه الترقيع الحيوى .

(٣) تنشيط إنتاج الكولاجين .

وقد تم إستخدام الكثير من الأنسجة الصناعية مثل الجورتكس ، الذاكرون

والبولى بروبيلين .

الهدف من هذه التوطئه :-

هو استعراض الأنسجة الصناعية المختلفة التي يمكن استخدامها فى

استعواض الرباط الصليبي الأمامي ونتائج إستخداماتها مع المقارنه بينها وبين

الطرق الأخرى المختلفه .