Infrapatellar fat pad resection during total knee arthroplasty: yet another reason for?

There has been an interesting series of commentaries based on the initial paper by Pan et al.¹⁻⁴ I note with interest the suggestion by Binks et al.⁵ that to preserve the infrapatellar fat pad (IPFP) and perform later arthroscopic resection on a case by case basis may be a viable option for management of anterior knee pain (AKP) after total knee arthroplasty (TKA). This is contrary to the solution offered by Han et al.⁶ to use a prospective MRI to screen patients prior to TKA with subsequent resection based on signal changes within the IPFP. This approach would however, prove difficult in the resource-constrained environment of most primary care facilities.

Current arguments in support of preserving the IPFP are largely based around the incidence of postoperative AKP.⁵⁻⁶ One area of conflicting evidence is the incidence of patella tendon shortening, also known as patella baja, after resection. Recent studies have shown no significant effect on postresection patella tendon length.⁷⁻⁸ This suggests that postresection patella tendon length is unlikely to be a major factor when considering to resect the IPFP or not.

The most common argument for IPFP resection is the increased surgical access to the knee. It is widely accepted that the most important aspect of knee arthroplasty is the correct fitting of components.⁹ Only with correctly fitting components can normal function be attained. In order to achieve this ‘correct fit’ the IPFP is often resected. Although this is a logical argument, there is no objective evidence in support of this.

The study by Sekiya et al.¹⁰ showed that in patients with AKP following resection there was a significant proportion with scar tissue deep to the tendon. So perhaps it is insufficient resection and not the decision to remove the IPFP that results in AKP. And with recent studies showing a lack of patella tendon shortening post IPFP resection, limiting one argument for its preservation, this may be more accepted in the future.

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