DEDICATED INSTRUMENTS

1. Vertical Harvesting Incision
2. Horizontal Harvesting Incision
3. Proximal Transection

REFERENCES


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This document is intended for the US market.
INTRODUCTION

ANATOMY
Harvesting of Quadriceps Tendon graft offers unique benefits such as the predictable cross-section, reduced harvest site morbidity\(^1\) and improved stiffness profile for knee ligament reconstructions as compared to other autografts\(^2\). As result, numerous studies report positive clinical outcomes of ACL\(^3, 4, 5, 6, 7\), PCL\(^7\) and MPFL\(^8, 9, 10\) reconstructions. The versatility of the graft allows for its use in anatomic double-bundle, trans-tibial and all-inside reconstructions of the ACL, as well as providing a more anatomically precise reconstruction of the MPFL\(^8, 9, 10\).

HARVESTING
Classical harvesting of the Quadriceps Tendon involves incising of the superficial and subcutaneous layers of the leg at the distal end of the thigh in order to reveal the tendon. Free hand cutting follows, often leading to dimensionally inconsistent and imprecise grafts. Furthermore, the tendon accessing incision of the skin results in cosmetically unattractive post-operative scarring.

The Medacta MectaQTH system is a minimally-invasive, precise and safe means of harvesting the Quadriceps Tendon in a time-efficient manner. The reproducible and atraumatic technique is performed through a small incision at the proximal pole of the Patella improving post-operative cosmesis compared to usual procedures. The dedicated instruments set present precise and consistent incisions with definitive dimensions in a quick, safe and secure manner.

The dedicated instruments and technique ensures:
- Safe tendon transportation thanks to the securing tip
- Prevention of premature tendon transection thanks to the integrated handle locking mechanism
- Minimally-invasive harvesting with expected improved post-operative cosmesis
- Wide product portfolio providing surgeons and their patients more possibilities
- M-ARS ACL dedicated solutions for unmatched ACL reconstructions

WHY MECTA QTH?

- EXPECTED QUALITATIVELY SUPERIOR CUTTING PERFORMANCE
- TIME-SAVING MINIMALLY INVASIVE TECHNIQUE
- HANDLE LOCKING MECHANISM ENSURING SAFE AND SECURE CUTTING

VERTICAL CUTTERS
The MectaQTH Vertical Cutters are used to create parallel subcutaneous incisions of the Quadriceps Tendon over a defined length for graft harvesting. Vertical Cutters functional features ensure a consistent and precise Quadriceps Tendon graft:
- Rounded cutting edges providing reduced resistance
- Single-unit shaft-blade design for incision stability
- Anatomic shaft design for a facilitated insertion over the Patella

The instruments are available in a wide range of configurations thereby maximizing the surgical possibilities for ligament reconstructions.

HORIZONTAL CUTTERS
The MectaQTH Horizontal Cutters are used to create horizontal subcutaneous incisions of the Quadriceps Tendon over a defined length for graft harvesting. Specific design features improve cutting performance and ensure a consistent tendon thickness across the length of the graft:
- Triple edged blade for optimized tendon incising
- Single-unit shaft-blade design for incision stability
- Anatomic shaft design for a facilitated insertion over the Patella

SUBCUTANEOUS CUTTERS
The MectaQTH Subcutaneous Cutter is used to proximally transect the graft segment at the desired length. Combined functional features ensure guided, safe and clean tendon transection.
- Tendon securing tip for guided and secure instrument advancement
- Handle locking mechanism preventing premature transection
- Angled graft cutting for a facilitated incision at the desired graft length
- No distal detachment required for tendon transection

The instrument is available in two configurations depending on the respective graft sizes:
- Small (colour code: Gold)
- Large (colour code: Black)