

Cemented Multi radius Total knee replacement implants

Specifications:

- Anterior as well as posterior referencing in the Femoral Jig
- In built slope in Tibial Jig.
- Femoral Implants should be Cobalt-Chromium-Molybdenum Alloy (Co-Cr-Mo) Known for its excellent wear characteristics and corrosion resistance
- Tibial Implants (Tibial Base Plates, Wedges, Augments, and Stems) should be Ti-6Al-4V Alloy.
- Should also provide bone cement for fixation of implants

Should have following options in various sizes available:

1. **Anatomical high flexion (upto 145 degree) Co Cr femur:** of various sizes with difference in between sizes less than 2 .5 mm
2. **Anatomical high flexion (upto 145 degree) Co Cr femur with narrow ML dimension** for use in small females. of various sizes with difference in between sizes less than 2 .5 mm
3. **Revision femur with constrained design** with option of 360 degree offset stem
4. **Symmetrical Titanium tibia** with option of attaching 360 degree offset stem
5. **Anatomical titanium polished tibia** with asymmetric condyles
6. **Compatible UHMWPE/ highly cross linked poly** with tibia with 2 mm increments
7. **Anatomical UHMWPE/ highly cross linked Poly** compatible with anatomical tibia with 1 mm increments
8. **Constrained UHMWPE/ highly cross linked poly** compatible with constrained femur/ tibia
9. **All Poly patella**
10. **Stems**
11. **Femur augments**
12. **Tibia augments/wedges**
13. **Rotating Hinge (Revision Portfolio) TKR**

Should be quoted for and available whenever required for complex cases and revision cases.

14. Unicondylar Mobile Bearing Knee Replacement Implants

- Femoral components should have a curved in geometry for minimal bone removal. Femoral component should have a confirming spherical design which minimizes contact stress throughout the entire range of motion. Should have 2 pegs. The system must offer minimum 4 sizes of femoral component (e.g. X small, small, medium and large).
- Anatomical tibial component i.e. right and left with all required sizes.
- Anatomical bearing components (Direct Compression molded poly). Anatomic mobile Tibial bearing should be from 3mm to 9mm in 1mm increments.
- Should also provide bone cement with implants for fixation of implants.