



There are four main implants used in a knee replacement procedure.

The femur implant caps the thighbone. The tibial implant caps the shinbone. The tibial insert is the plastic piece that acts as ‘cushion’ between the two metal implants. There is also a round or oval plastic implant that functions as the knee-cap (not shown).

Database Fields

Columns A-I are pretty self explanatory.

(J) Side - Did the patient have their left or right knee operated on... or did they do both on the same day

(K) Knee Society knee score - This is an objective score, measured by the surgeon, of how much the patient can bend their leg and how straight they can get it. (Scale: 0-100).

(L) Knee Society function score - This score is based on the patient's claims of how far they can walk, how easy stairs are to navigate and what (if any) walking aids they need (Scale: 0-100).

(M) Navigation - Was the GPS used to help get the implants in straight.

(N) Manufacturer - Parent manufacturer of the implant system used.

(O) Femoral component model - The trade name of the type of femur implant used.

(P) Femoral component size - An identifier (usually an integer) that indicates the dimensions of the implant selected. Implants come in many sizes to accommodate the variation in patient's bones.

(Q) Femoral component type - This one is hard to explain. I'm oversimplifying here but there are different types to help a really 'floppy' knee to be more stable so it functions better. There are only three in this data (cruciate retaining, posterior stabilized and constrained) ordered from least 'supportive' to most supportive.

(R) Tibial tray model - The trade name of the type of tibia used.

(S) Tibial tray size - Same as (P) for the tibial implant.

(T) Tibial insert model - The trade name of the tibial insert used.

(U) Tibial insert thickness - How much plastic (in millimeters) was used as the 'cushion' between the femur and tibial implants.

(V) Tibial insert type - These are the different styles of plastic insert designed to help the knee bend more or be more stable.

(W) Patella model - The various trade names for the patella implants used.

(X) Patella diameter - The actual diameter of the patella implant used.