

Patient Specific Computer Assisted Total Knee Joint Replacement



Mark Clatworthy, Orthopaedic Surgeon, Knee Specialist

Computer navigation is a technique which enables a surgeon to use a computer and specialized instruments to improve the alignment, stability and function of your total knee replacement.

Every knee is different. This technique enables me to implant your knee replacement to match your own bone anatomy and soft tissue envelope. So your knee replacement is individualized to fit your knee

Studies have shown that a computer navigation gives greater accuracy in implanting the knee replacement. Our recent studies have shown our technique results in better function, less pain, and higher satisfaction than conventional techniques. It is envisaged that implanting the knee more accurately will enable the knee to last longer. However it will take time to determine this

The system is a touchscreen-based planning computer with navigation software specially designed for use in knee replacement surgery The system uses reflective marker spheres and infrared cameras

