Knees



Consultant Profile

MR SANJIV JARI BSc (Hons), MB ChB, FRCS (Eng), FRCS (Tr & Orth) Consultant Orthopaedic Surgeon

Surgeon Profile:

Mr Sanjiv Jari is a consultant lower limb and orthopaedic sports medicine surgeon at Hope Hospital. He is also an honorary clinical lecturer in orthopaedic and trauma surgery at the University of Manchester.

Mr Jari trained in London and Manchester, following which he worked in the USA for a year at a prestigious sports medicine clinic treating, amongst other things, injuries in elite and professional athletes. He was a sports medicine consultant to the 2002 Commonwealth Games in Manchester and he is currently the orthopaedic surgeon to the Great British Olympic Wrestling sauad.

Mr Jari's NHS practice involves lower limb and trauma surgery, in addition to sports injury, he has a large practice in arthritis surgery and specialises in minimally invasive total and half knee replacements.

For further information or to book an appointment please call 0161 232 2303 or email info@spiremanchester.com

procedures, where a plug(s) of bone f we damage the cartilage in our knee joint this can be a permanent and cartilage from another part of problem. This particular part of the knee was removed and our body is very poor at healing and transplanted into the problem area regenerating. As we get older the but the results from this have also articular cartilage (the lining in our been mixed for various technical knee) begins to thin and wears out.

This can be due to arthritis or in

younger patients is usually caused by

trauma, which could be caused by a

fall or other injury to the knee such

(Osteochondritis dessicans) can also

If the articular cartilage (lining of

the knee) is not going to heal itself, is

Initially, treatments specifically for

the knee revolved around trying to

create bleeding within the area of

(microfracture) and roughening

bone which was exposed

the bone (abrasion). These

encourage some tissue to

was that the tissue that

formed was mainly scar

normal cartilage. Scar

tissue does not have

normal cartilage and

tends to break down

more easily (quickly).

moved on and other

such as the OATS

options were then tried

Treatment techniques

tissue rather than

the durability of

grow, however the problem

techniques aimed to

there anything that we can do to

as from sports. Fragments of bone

moving around inside the joint

younger people.

help?

Some years ago in Sweden, a procedure called articular cartilage transplantation was developed and has been used on many patients successfully. Initially this technique was used on small areas of traumatic lining surface damage usually caused cause damage to the knee cartilage in by injuries to the knee. Our experience has grown over the years and now it is something that can be done for more significant problems including some cases of arthritis in the knee.

The treatment involves two stages of surgery. The first stage is to take a piece of healthy knee cartilage (a chondral or osteochondral biopsy), which is usually done by keyhole

surgery (arthroscopically). This

tissue is then sent to the

laboratory where the scientists work their magic and grow the cartilage cells. Most surgeons then request the cells to be implanted on to a collagen

membrane

and at

damaged area of the knee. Following surgery rehabilitation with physiotherapy and specific exercises are key to achieving a good result. It may take a fairly long time to recover because the rehabilitation

the second operation, the collagen

membrane is attached into the

is a gradual process. Prior to the operation the patient may have other problems affecting the knee such as ligament damage or kneecap dislocation. These should be addressed either before the transplantation surgery or during that surgery.

treatment are re-assuring as they show that the transplanted cartilage over time has a high volume of normal cartilage not scar tissue. There is still some scar tissue but the aim of creating normal cartilage and a better result for patients can be achieved.

> Case study; Mr S A When I first saw Mr S A, he was having problems with both knees, more so on the right and had symptoms that were very typical of patella femoral (kneecap) problems with pain at the

front of his knee. The pain was worse going up and down stairs and if he had been sitting down for a length of time. He did not have any swelling, locking or giving way and did not recall any injury. He played table tennis 3 or 4 times a week but his knee was starting to impact on how much he could play.

ARTICULAR CARTILAGE TRANSPLANTATION IN THE KNEE - DOES IT REALLY WORK?

He tried a number of treatments, including physiotherapy, podiatry, injections of Hyaluronic Acid and steroids and eventually underwent an arthroscopic debridement, which involved removal of damaged tissue within the knee using a keyhole Continual studies of this method of surgery. This operation reavealed an area of localised degenerative change in his trochlea (one part of the kneecap joint). His knee cap was also not moving correctly along the groove in his thigh bone (maltracking patella). The arthroscopic debridement helped him for a period of time but then his symptoms recurred. At this point I discussed cartilage transplantation with him as I

felt it was the best option to maintain his quality of life at that point. He underwent the first stage of the transplantation which was a biopsy of

cartilage. The second, minimally invasive stage, was then performed about a month later. At this time I also surgically corrected the alignment problem in his kneecap to prevent further excessive wear on the transplanted area.

The patient and I were very pleased with his recovery. He needed further physiotherapy and he went on to take up competitive road cycling, as well as continuing with his table tennis.

Every patient is an individual and knee problems can be caused by a number of conditions, but for many patients this can be a very successful operation.

In patients who are too advanced for a cartilage transplantation, or may be too old for the procedure, there are other, minimally invasive, partial resurfacing options using small metal caps to resurface the area (rather than replace the whole knee) which can work very well.

If you require any further information regarding cartilage transplantation, please go to

> free to make an appointment to see Mr



www.thekneedoc.co.uk or feel

