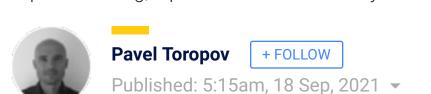
Lifestyle/ Health & Wellness

Why athletes find themselves needing hip surgery in midlife, and how hip resurfacing gives them a second shot at sporting glory

People who play sport intensively, especially in their teens when bodies are still growing, subject their hip joints to too much wear and may need surgery Hip resurfacing, a procedure Britain's Andy Murray underwent, improved one keen amateur Hong Kong tennis player's game and made him a new person





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Britain's Andy Murray in action at the recent US Open. Hip resurfacing allowed him to return to the professional tennis tour and play without pain. Photo: AFP

Even the most finely engineered machines experience wear and tear over time. Our bodies are no exception.

One key joint in particular is subject to damage through overuse: the hip. As the cartilage between the ball of the thigh bone, known as the femur, and the pelvis, wears away, osteoarthritis sets in. Bone starts grinding on bone, causing pain which can eventually become unbearable.

This process usually takes place over decades, which is why most hip replacements – a surgery to replace the hip joint or resurface it – are performed on people in their seventies.

Doing sport intensively, though, increases the likelihood of developing the condition much earlier in life. Hong Kong-based orthopaedic surgeon Jason Brockwell calls hip osteoarthritis a "medical problem of affluence", since sport is largely a privilege of wealthy societies.

Karate, taekwondo, squash, tennis – sports that involve repeated, forceful hip flexion such as lunging or kicking smash hips Jason Brockwell, orthopaedic surgeon

The good news is that advances in hip surgery now allow affected people to return to sport, even at the highest level.

Tennis star Andy Murray is an example: he came back to the professional tour in January, 2019, after hip resurfacing surgery – in which a metal cap is placed on the ball of the joint and a rod is inserted into the femur to keep it in place.



ball of the femur and the part of the pelvis to which it connects. There is more good news: running, which has grown in popularity in Hong Kong and around the world during the coronavirus pandemic, does not usually cause wear in the hips. Brockwell says this is because of

the low angle of hip flexion while running. Sports in which hips are bent at angles exceeding 90 degrees – with the knee going higher than the waistline – do the most damage.

"Karate, taekwondo, squash, tennis – sports that involve repeated, forceful hip flexion such as lunging or kicking – smash hips," says Brockwell.

Number of hip fractures from osteoporosis to triple

in 30 years 28 Apr 2018 When the hip is flexed at a high angle – for example when lunging in squash or doing a high kick in karate, the femur comes into contact with the edge of the socket and the two bones pinch and grind against



each other. Over time, this wears out the cartilage and deforms the bones. If a middle-aged marathoner starts to suffer from pain and stiffness in the hips, it may be a legacy of "kicking and lunging" sports they practised before or are still practising. Also, having done sport seriously in

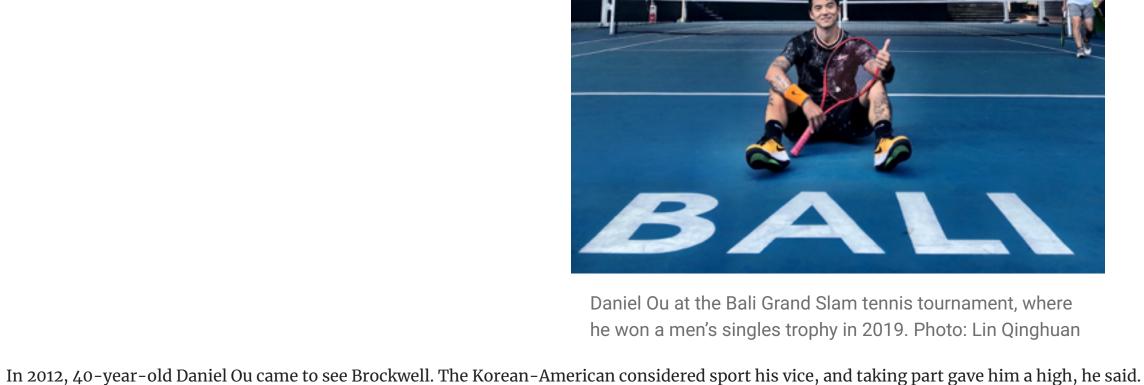
their early teens can predispose sportspeople to osteoarthritis in later life. "Young teens start to put on muscle and do more impactful sports, but they use pliable children's bones that then adapt by strengthening themselves," says Brockwell.



One adaptation is the thickening of the ball on the femur, creating what is known as cam deformity – in which the ball no longer fits properly into the socket. An adult with a cam deformity from doing sports as a

teen runs a higher risk of developing osteoarthritis if he or she takes up "lunging and kicking sports" in adulthood. For active people suffering from pain and stiffness in the hips, or from groin pain, Brockwell recommends getting a hip X-ray.

"Hip problems give pain in the groin, butt and inner thigh. These can be misdiagnosed as hernia, as prostatitis or gynaecological issues," he says. "An X-ray allows the right diagnosis of the hip, which can save people money and unnecessary medical treatment."



"I played tennis every day, and ice hockey in three different leagues. My life was built around sports – I wanted to act like a professional athlete," says Ou, a product development director for sportswear producer

Lululemon who now lives in Vancouver, Canada.

Even though constant hip pain was preventing Ou from leading a normal life, he continued doing sports.

The joy of just being able to play took away the pressure. I won five tournaments after [hip] surgery, before – it

I was doing to myself, but there was no turning back."

movement patterns to redistribute pressure.

possibly slow down arthritis."



21 Aug 2021

Clark says he "was diligent with physio and spent three to four months off the court. In September, I started playing doubles, and towards the end of the year I competed again".

was one in 10 years

"I was stubborn – pros deal with this," he says, on how he knew he was playing on borrowed time but could not resist his sports fix. "On the court, adrenaline takes over, pain finds a way to go away. I knew what

His recovery was arduous – not only were both hips operated on at the same time, but he had to wait for a year and a half for a nerve to regenerate in his right leg. When he eventually made a full recovery, he decided to give up ice hockey – to avoid collisions and contact. But he could not resist a return to competitive tennis.

Ou had double Birmingham hip resurfacing surgery in 2014 — a procedure in which the hip joint is preserved but metal caps are placed on the ball of the femur and the part of the pelvis to which it connects.

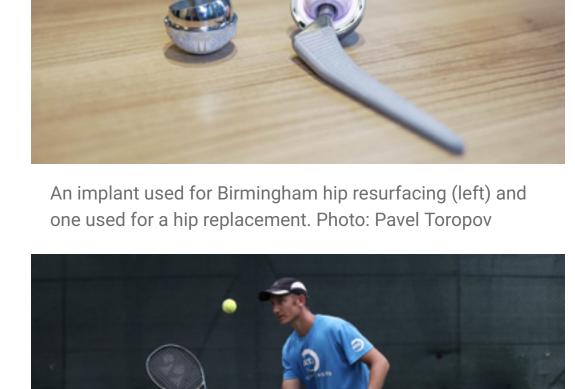
Lift weights – it protects your heart and slows the effects of ageing

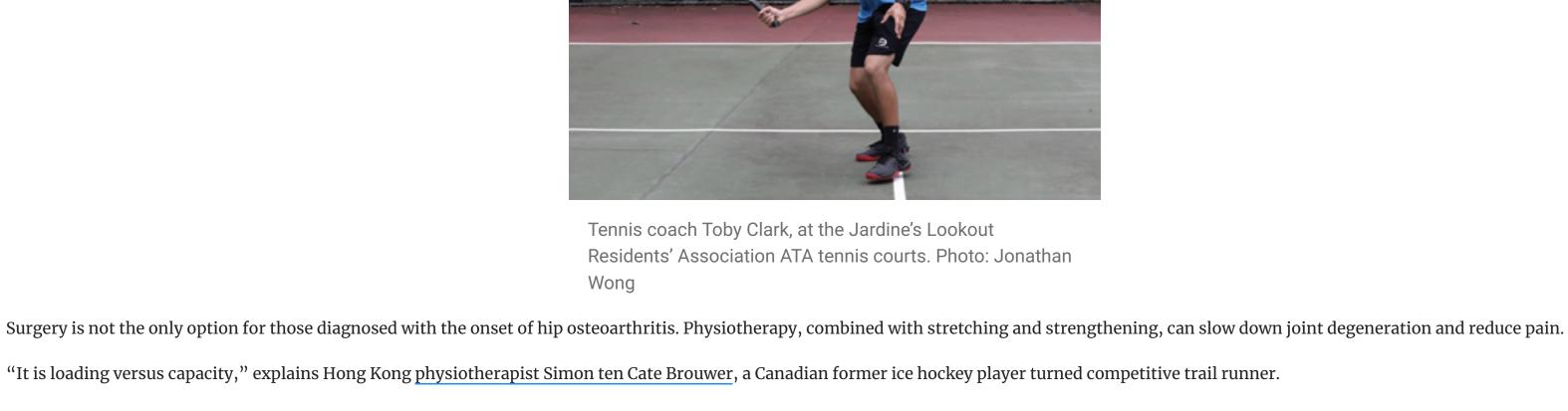


"lifespan of sports activities" for his hip problems. Despite the pain, he continued to play competitive tennis in the top division in Hong Kong.

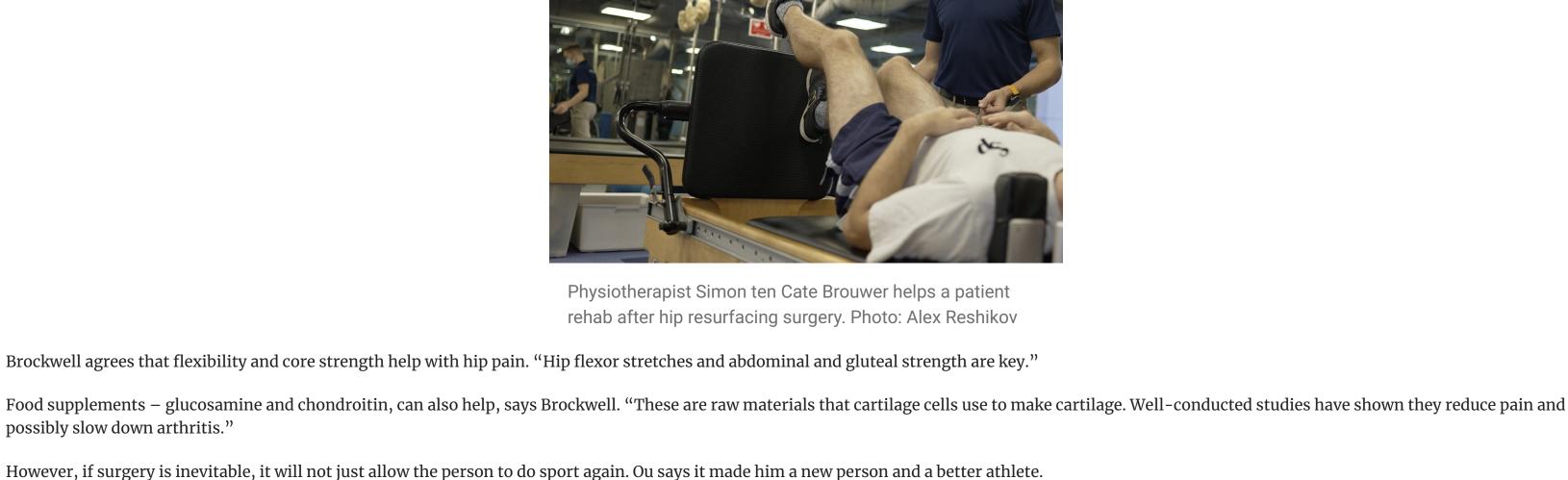
He feels he is now ready for maximum physical effort, but needs to improve strength in the hip. "I was not diligent enough on my flexibility," he admits. "If I had done more, I would be 100 per cent now."

Another of Brockwell's patients, Clark's recovery from hip surgery was much more straightforward. After his hip resurfacing surgery in January, 2019, the same month tennis superstar Murray had his procedure,





"You must make sure the load on the vulnerable hip does not exceed its capacity. We can increase this capacity by adding strength and range, and reducing biomechanical loading" – identifying optimal



Brockwell agrees that flexibility and core strength help with hip pain. "Hip flexor stretches and abdominal and gluteal strength are key."



The pre-surgery "rest-is-for-the-weak" jock changed his tune. Ou's new self is "grateful to be standing on the court again, respecting every ball, every point". And the new Ou started winning. "The joy of just being able to play took away the pressure," he says. "I won five tournaments after [hip] surgery. Before, it was one in 10 years."

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The best tips for avoiding and combating chronic inflammation



Ou's advice to his fellow weekend warriors: "Really listen to your body. I used to push my body till I felt pain, now I don't. Be humble. Slow down. It's OK to take a break."