



Symbios UK Ltd and
Nuffield Health Cambridge Hospital



Nuffield Hospital Cambridge
4 Trumpington Road
Cambridge
CB2 8AF

01223 631 880
nuffieldhealth.com

Symbios

Avenue des Sciences 1
1400 Yverdon-les-Bains
Switzerland
T +41 24 424 26 26
F +41 24 424 26 27

Symbios Schweiz

Seefeldstraße 69
8008 Zürich
Schweiz
T +41 43 488 35 50
F +41 43 488 35 00

Symbios France

14, rue d'Arsonval
69680 Chassieu
France
T +33 4 72 37 08 26
F +33 4 78 41 03 92

Symbios Deutschland

Justus-Liebig-Str. 3C
55129 Mainz
Deutschland
T +49 6131 277 29 40
F +49 6131 277 29 49

Symbios UK

Unit 2, Silverdown Office Park
Fair Oak Close, Clyst Honiton
Exeter, Devon
EX5 2UX, United Kingdom
T +44 1 392 365 884
F +44 1 392 365 885

Symbios Österreich

c/o CCFA
Am Heumarkt 10
1030 Wien
Österreich
T +43 664 111 44 66
F +41 24 424 26 27

www.symbios.ch

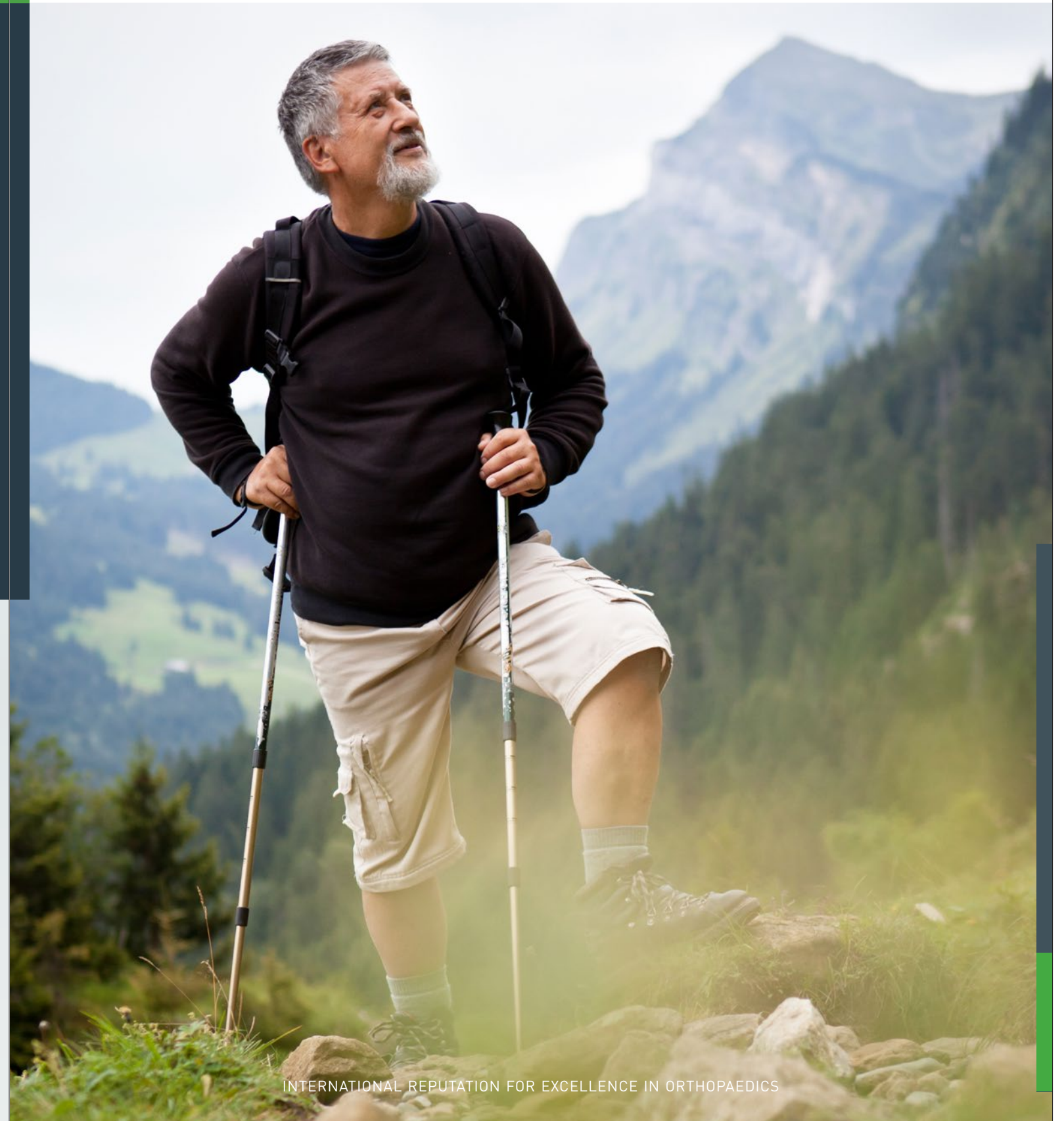


swiss-made



Your INDIVIDUAL[®] Hip Prosthesis

A fully Customised Hip Joint to optimise reconstruction and restore function



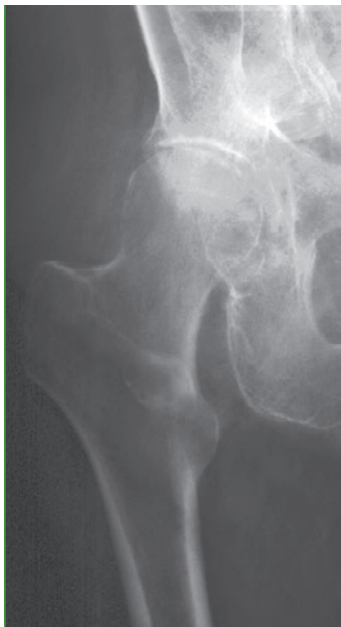
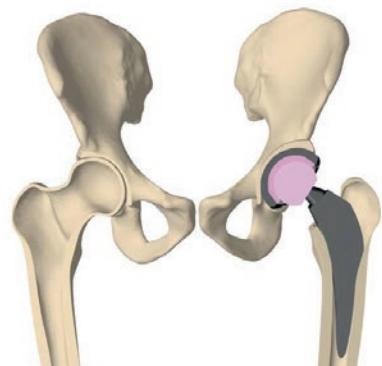
INTERNATIONAL REPUTATION FOR EXCELLENCE IN ORTHOPAEDICS

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The anatomy of the hip is different from patient to patient

The Custom prosthesis is designed to fit the anatomy of each patient's hip.

Leg length adjustment, muscle function and stability are therefore optimised during the operation.



Valgus femur



Varus femur



Total hip prosthesis

Enjoy life with your new INDIVIDUAL® Hip!



The Custom Hip Prosthesis

The INDIVIDUAL® Hip optimises reconstruction of each individual's anatomy



As result, the patient achieves:

- Better hip function
- Increased prosthesis life-span
- Greater safety when inserting the implant

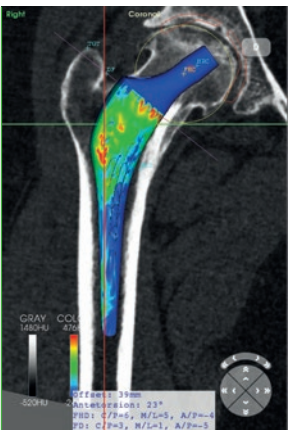


We believe that the Custom stems provides faster, complete and lasting restoration of activity...

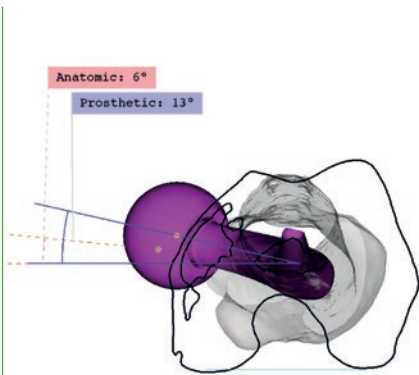
Professor J.-N. Argenson,
Sainte-Marguerite University Hospital Centre,
The Aix-Marseille University of the Mediterranean, France.

Ref.: "Prothèses de hanche non cimentées chez des sujets jeunes de moins de 50 ans: étude de 2 à 8 ans de recul"
(Cementless hip prostheses in subjects under 50 years of age: study with 2-8 years follow-up). "Revue de chirurgie orthopédique (RCO)".
71st Annual Meeting of the French Society of Orthopaedics and Traumatology. Nov. 1996, vol. 87, supp. II.

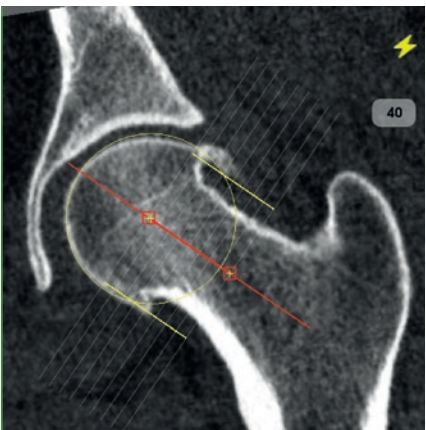
Symbios is the foremost opinion in the design and manufacture of Custom implants Europewide



3-D reconstruction of the joint.



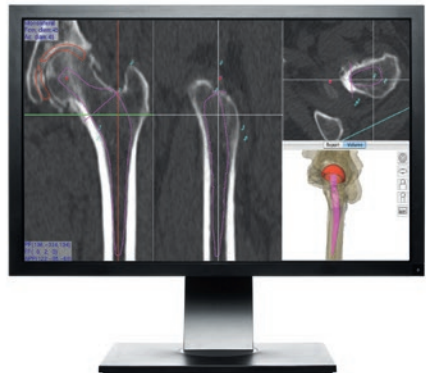
Precise preoperative planning.



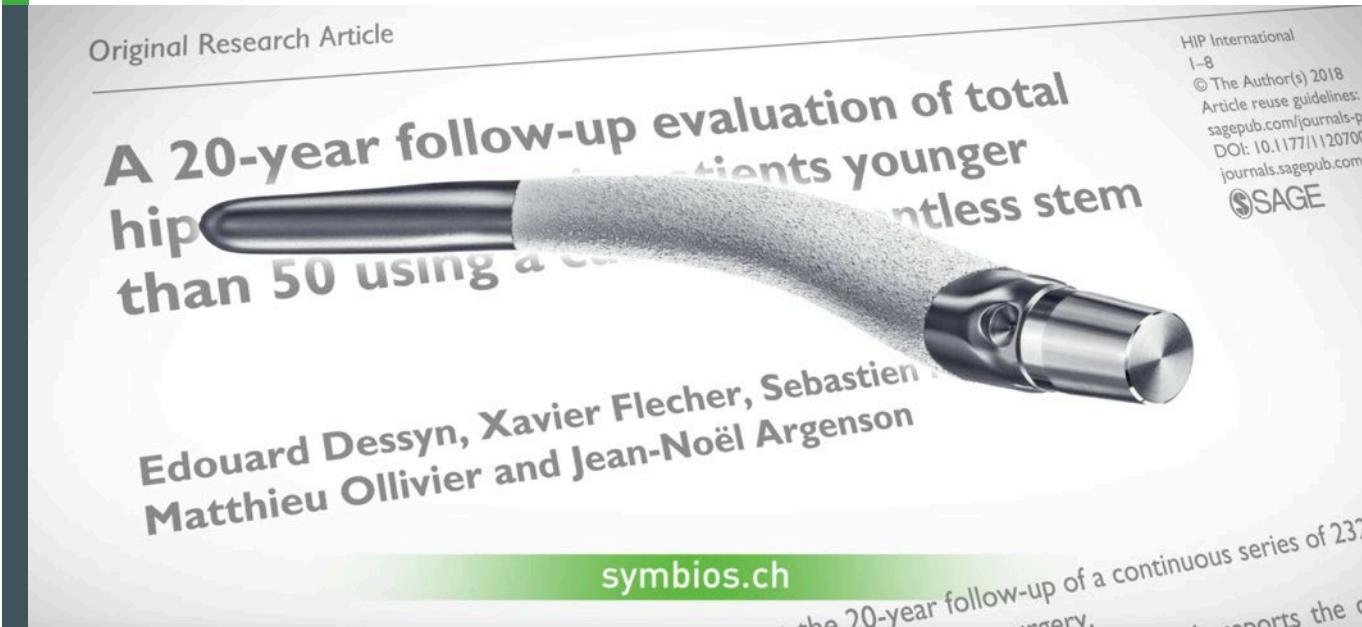
Manufacture of a single unit perfectly adapted to the patient's anatomy.



Symbios,
world leader
Custom prosthesis

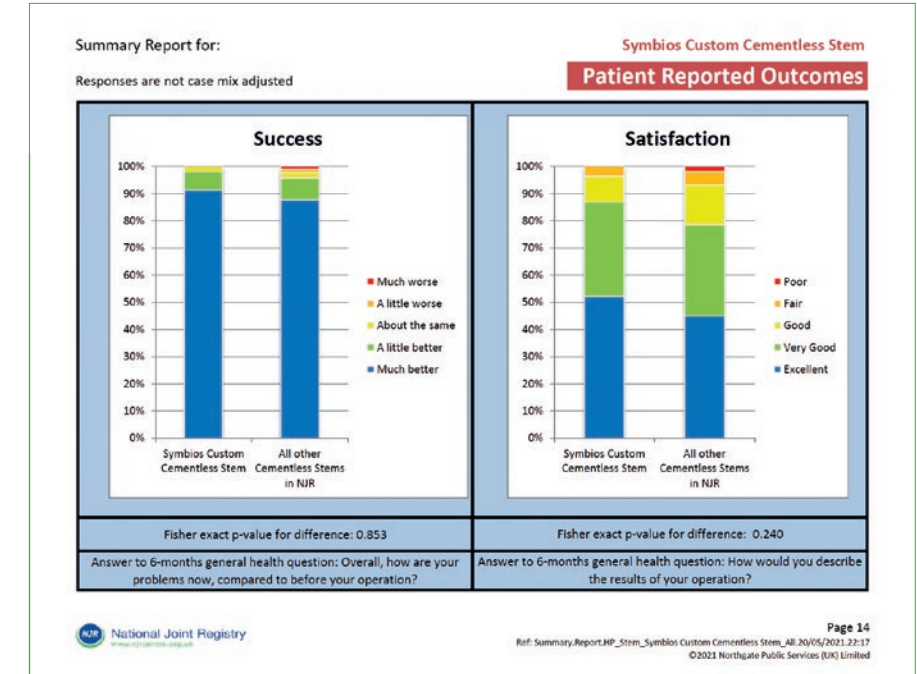


20-year published clinical results



The surgical procedure may be performed via the preferred approach. The Custom prosthesis is perfectly adapted for minimally invasive surgery (MIS), including the Direct Anterior Approach (DAA) for which special instrumentation is available.

- Reduced soft tissue damage
- Reduced blood loss



Summary of Patient Reported Outcomes from the National Joint Registry of England and Wales

Symbios are delighted to be working in collaboration with Nuffield Health Cambridge and Carrothers Orthopaedics in offering a truly personalised joint replacement service

Introducing Mr Andrew Carrothers FRCS Consultant Orthopaedic Surgeon



Andrew has been an Orthopaedic Pelvic, Hip & Knee Consultant since 2012, being appointed as a Consultant Trauma & Orthopaedic Surgeon at Addenbrookes Hospital Cambridge and subsequently as an Associate Lecturer at the University of Cambridge School of Medicine.

Andrew's clinical practice is based on the key principles of listening, observing and learning, understanding the needs of his patients is at the core of his caring philosophy. His primary goal is to provide his patients with the best and most up to date evidence based treatments, to ensure that they get back on track and resume daily activities as soon as possible. If you would like to read individual patient reviews please visit the website link below, where you will find over 420 patient independent 5* reviews.



<http://carrothersorthopaedics.co.uk/people/our-people/#!/andrewcarrothers>

Regenerative therapies and younger adult highly functioning hip replacements form a core part of Andrew's practice. Andrew has a specialist interest in minimally invasive hip surgery and the unique benefits and patient expectations that the Symbios Custom Hip allows. This state-of-the-art system allows the surgeon to perform a total hip replacement using a more minimally invasive technique that causes less damage to muscles, removes less host bone stock and hence often reduces post-operative pain and speeds recovery.

Symbios hip implant which is individually designed and manufactured for you, provides a perfect, customised fit that mimics the natural shape of your hip. An implant that is sized and shaped to your precise measurements allows more natural, pain-free movement of the joint.

Patients often experience less pain after surgery and it is likely there will be less wear and tear on the implant, meaning that it may last longer. More of the patient's own healthy bone and ligaments can be preserved and, over time, it is often observed that individuals who have a customised hip replacement experience more stability and more function in the joint.

For further reading please see the various blogs (www.carrothersorthopaedics.co.uk) at Carrothers Orthopaedics

Andrew has over 80 peer-reviewed publications and he lectures nationally and internationally on a wide range of joint replacement and trauma reconstructive topics. For further information on his publications please search "Andrew Carrothers" on Google Scholar.

Glossary

Glossary of orthopaedic terms used:

Ceramic

An inert, biocompatible material composed of inorganic, non-metallic substances with great mechanical strength, high resistance to wear and great hardness.

Coxarthrosis

Arthritis of the hip joint.

CT scan

Radiographic examination which provides bone slice images to represent the anatomy in three dimensions.

Cup

Hemispherical metal unit that is implanted into the pelvic bone.

D.A.A.

Direct Anterior Approach.

Femoral stem

A metallic unit that is implanted into the femoral bone (thigh bone).

Friction couple

Replacement joint surfaces in contact with each other (e.g.: metal/metal, ceramic/ceramic, metal/polyethylene, etc.).

Hydroxyapatite

Crystalline material. It is a natural form of calcium apatite. As a coating on an implant surface it improves bone recolonisation.

Luxation

Accidental dislocation of a joint.

M.I.S.

Minimally Invasive Surgery.

Osteoarthritis

Progressive wear of cartilage and then of bone.

Planning

Analytical method to determine the choice and position of implants.

Reconstruction

The accurate positioning of hip replacement components to match the patient's native anatomy.

Rheumatoid arthritis

A chronic inflammatory disease leading to progressive destruction of cartilage and then of bone.

Surgical access route

Anatomical pathway by which the surgeon gains access to the joint.

Titanium

A metallic material with extremely versatile properties: biocompatibility and resistance to corrosion as well as excellent mechanical properties such as fatigue resistance.

Total hip prosthesis (T.H.P.)

A medical device composed of a femoral stem, a cup and a friction couple.