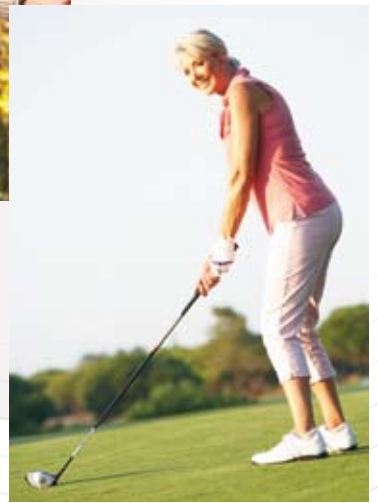


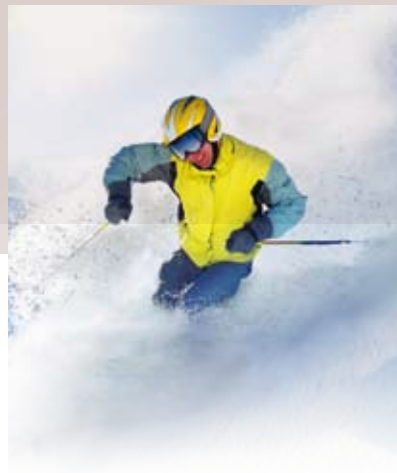
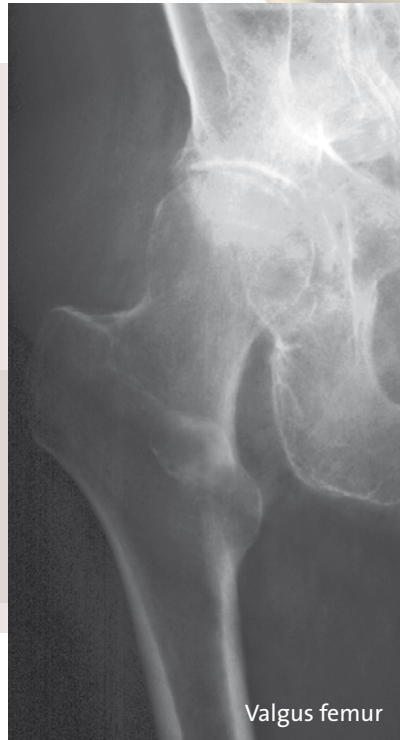
# The Custom hip prosthesis



Information for patients

*Optimised reconstruction  
Function restored*

# The anatomy of the hip is different in every patient



The Custom prosthesis is designed to fit the hip anatomy of each individual patient. Leg length adjustment, muscle function and stability can thereby be optimised during the operation.



The Custom implant that replicates each individual's anatomy.



As a result, the patient can expect

- Better hip function
- Increased prosthesis lifespan
- A safer surgical procedure

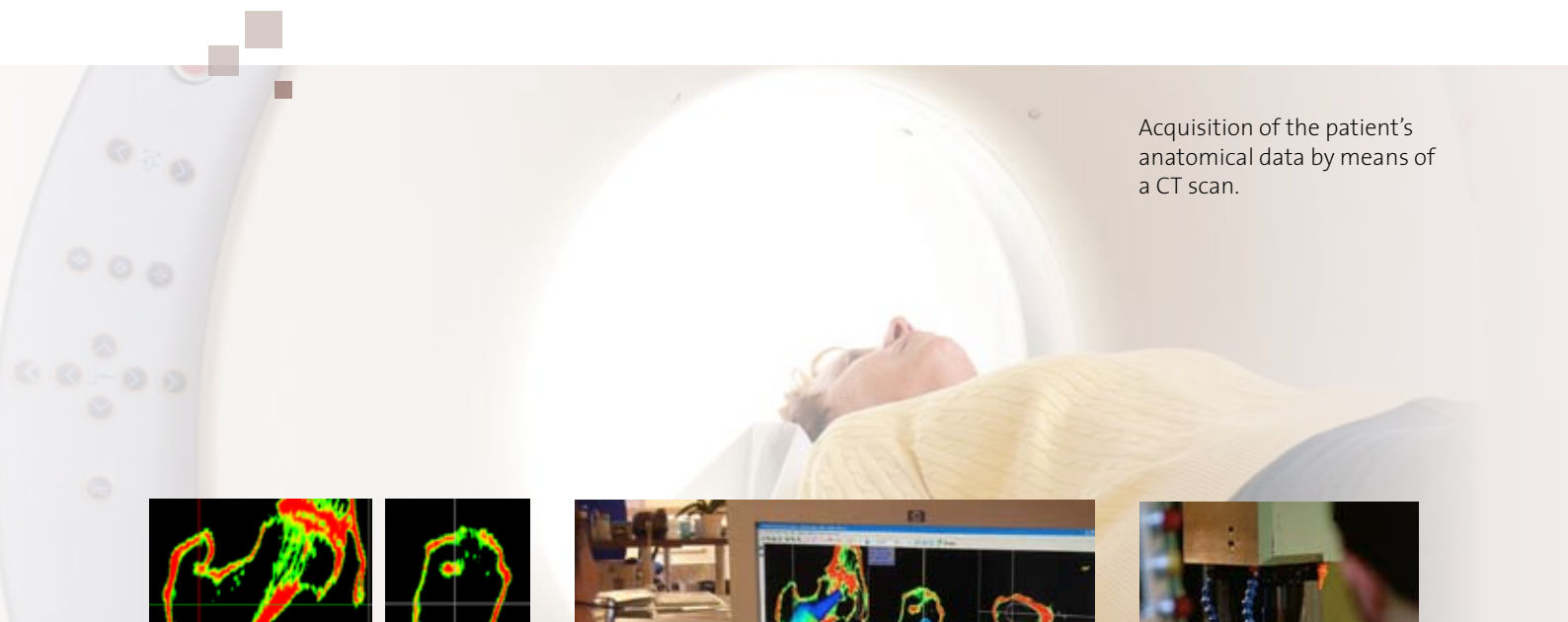
■ [www.symbiosorthopaedics.co.uk](http://www.symbiosorthopaedics.co.uk)

“ WE BELIEVE THAT THE CUSTOM STEMS PROVIDE  
A FASTER, MORE COMPLETE AND LASTING RESTORATION  
OF ACTIVITY...”

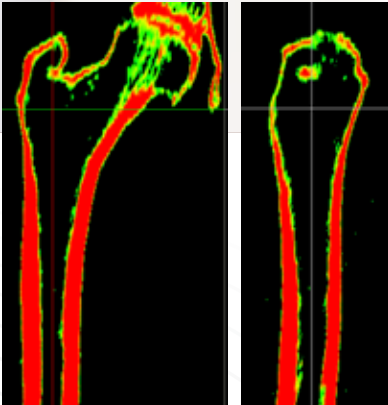
Professor J.-N. Argenson, Sainte-Marguerite University Hospital Centre,  
The Aix-Marseille University of the Mediterranean, France.

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 ortho-  
pédique (RCO)”. 71<sup>st</sup> Annual Meeting of the French Society of Orthopaedics and Traumatology. Nov. 1996, vol. 87, supp. II.

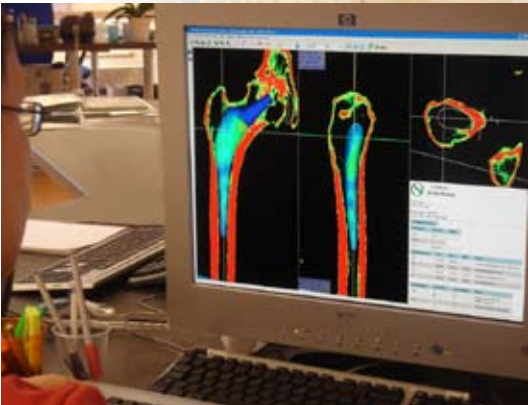
# Planning and design in 3 dimensions



Acquisition of the patient's anatomical data by means of a CT scan.



3-D reconstruction of the joint.

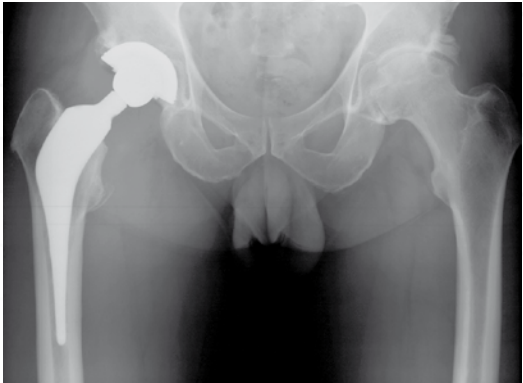


Precise preoperative planning.



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

Symbios, world leader  
in Custom prostheses



The surgical procedure may be performed via the surgeons preferred approach to the hip joint. The Custom hip prosthesis is however, perfectly adapted for minimally invasive surgery (MIS), for which special instrumentation is available. The advantages are:

- Reduced soft tissue damage
- Reduced blood loss

Each patient is assessed individually for suitability to MIS



Mr Ian Mc Dermott

**Mr Ian Mc Dermott**  
MB BS, MS, FRCS (Orth),  
FFSEM (UK)  
**Consultant Orthopaedic Surgeon**  
**Honorary Professor Associate, Brunel University**

**Specialising in Trauma & Elective Surgery, with special interests in:**

- Hip replacement and knee replacement surgery
- Sports injuries of the lower limb
- Knee arthroscopy
- Meniscal repair, replacement and transplantation
- Knee ligament reconstructions



Mr Paul Jairaj

**Mr Paul Jairaj**  
MB ChB, FRCS (Tr & Orth)  
**Consultant in Trauma and Orthopaedics**

**Specialising in Trauma and Orthopaedic Surgery, with special interests in:**

- Hip and Knee Replacement Surgery
- Hip arthroscopy
- Knee arthroscopy
- Sports injury surgery



Mr Henry D.E. Atkinson

**Mr Henry D.E. Atkinson**  
MBChB, BSc (Hons), MRCS,  
FRCS Ed (Tr & Orth)  
**Clinical Lecturer to London Metropolitan University**  
**Clinical Lecturer and Visiting Professor to Belgrade University**

**Consultant in Trauma and Orthopaedics**

**Specialist with Fellowship Training and Special Interests in:**

- Hip, knee and ankle joint replacement surgery plus revision surgery
- Arthroscopic surgery of the hip, knee and ankle
- Sports injuries of the lower limb, soft-tissue and ligament reconstruction
- Foot and ankle surgery, forefoot and hindfoot reconstruction
- Minimally invasive bunion surgery



Mr Paul Culpan

**Mr Paul Culpan**  
BSc, MBChB, FRCS (Tr & Orth)

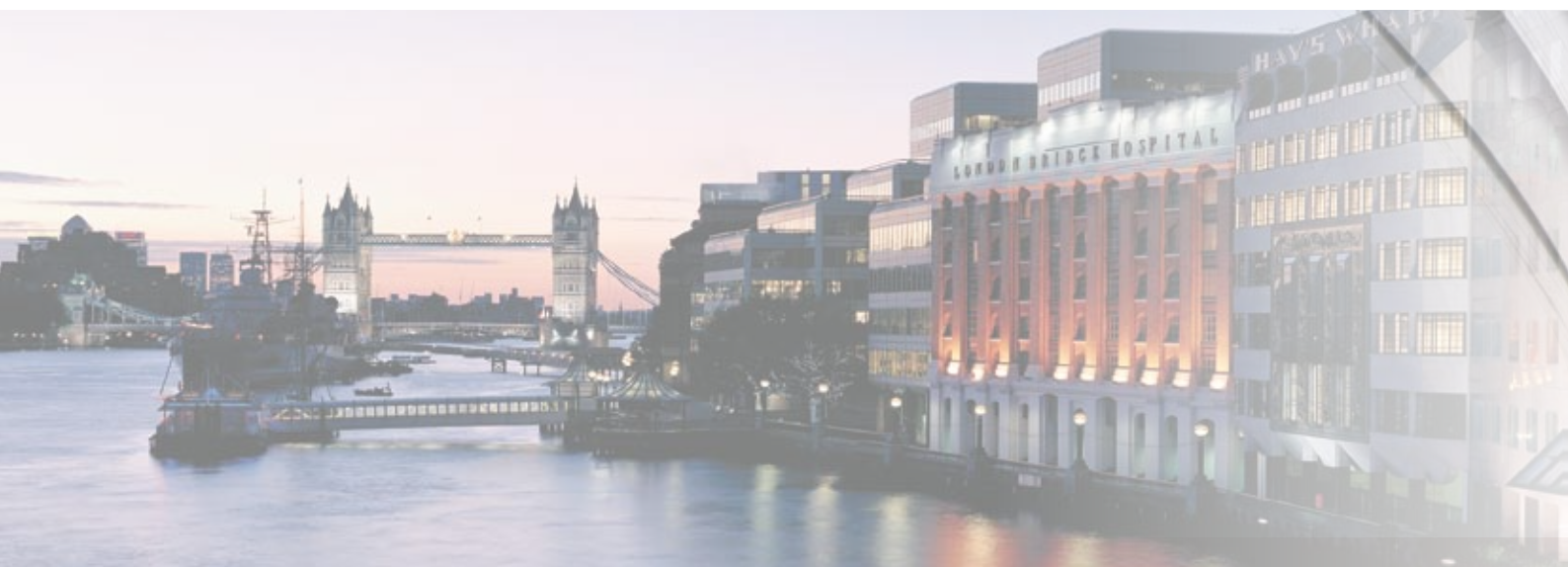
**Consultant in Trauma and Orthopaedics**

**Specialising in Trauma and Orthopaedic Surgery, with special interests in:**

- Primary total hip replacement including minimally invasive techniques
- Complex hip reconstruction and revision hip replacement
- Pelvic and acetabular trauma surgery
- Complex lower limb trauma surgery
- Arthroscopic knee surgery and knee sports injuries including ligament reconstructions
- Partial and total primary knee replacements and revision knee replacements

# Exacting cooperation for the well-being of patients

London Bridge Hospital and London Sports Orthopaedics offer you a team of surgeons specialising in orthopaedics, traumatology and sports surgery and who have growing experience with the Symbios Custom prostheses.



All problems of the musculoskeletal system (joints, bones, muscles and tendons) can be treated as well as congenital malformations, injuries caused by accidents or sports activities, the consequences of arthritis (joint wear) and osteoporosis due to physiological ageing.

## *LONDON BRIDGE HOSPITAL: PRIVATE HEALTHCARE EXCELLENCE*

Dedicated to private healthcare excellence, London Bridge Hospital offers patients from all over the world advanced surgical and medical services across a wide range of specialties. London Bridge Hospital prides itself on a unique integrated approach to patient care, delivered by the very best Consultants from leading London teaching hospitals and professional, friendly clinical staff.

London Bridge Hospital also has five state-of-the-art outpatient centres, each offering the very best in outpatient care. One of these centres being 31 Old Broad Street, which can provide a complete range of consulting and treatment services in a highly convenient location in the heart of London.

# The Symbios implant passport

The implant passport should accompany you at all times. It contains all the useful information about your implants and, when travelling, shows that you carry metal or ceramic implants that are picked up by metal detectors.



## 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.

### 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. (Mini Invasive Surgery)

Keyhole surgery.

### Osteoarthritis

Progressive wear of cartilage and then of bone.

### Planning

Analytical method to determine the choice and position of implants.

### 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.

# Symbios UK Ltd and London Bridge Hospital & London Sports Orthopaedics



**SYMBIOS**

Av. des Sciences 1 – CH-1400 Yverdon-les-Bains – Tel. +41 24 424 26 26 – Fax +41 24 424 26 27 – [www.symbios.ch](http://www.symbios.ch)

Symbios UK Ltd – Unit 2 – Silverdown Office Park – Exeter Airport – Exeter EX5 2UX – United Kingdom  
Tel. +44 13 92 36 58 84 – Fax +44 13 92 36 58 85 – [enquiries@symbiosorthopaedics.co.uk](mailto:enquiries@symbiosorthopaedics.co.uk)  
[www.symbiosorthopaedics.co.uk](http://www.symbiosorthopaedics.co.uk)



## **London Sports Orthopaedics**

31 Old Broad Street – City of London – EC2N 1HT – Tel. 0844 561 7157  
[www.sportsortho.co.uk](http://www.sportsortho.co.uk)

## **London Bridge Hospital**

27 Tooley Street – London – SE1 2PR – Tel. +44 (0) 20 7407 3100  
[www.londonbridgehospital.com](http://www.londonbridgehospital.com)