

Innovation in shoulder arthroplasty

# MY SHOULDER

Your 3D Printed  
Patient-Specific Solution!



## Suffering from shoulder pain?

If your shoulder pain limits your daily activities, affects your mood, your health and your general well-being... **You're certainly not alone!**

## Are you considering Shoulder Replacement?

There are a number of surgical and non-surgical solutions to treat your disease. Ask your doctor what is the most suitable treatment based on your age, activity level and expectations.

## MyShoulder, a solution designed for you

MyShoulder are specific instruments which are tailored for each individual patient from a CT image of his shoulder.

MyShoulder technology was designed to achieve  
**MORE ACCURATE AND FASTER** shoulder replacement.

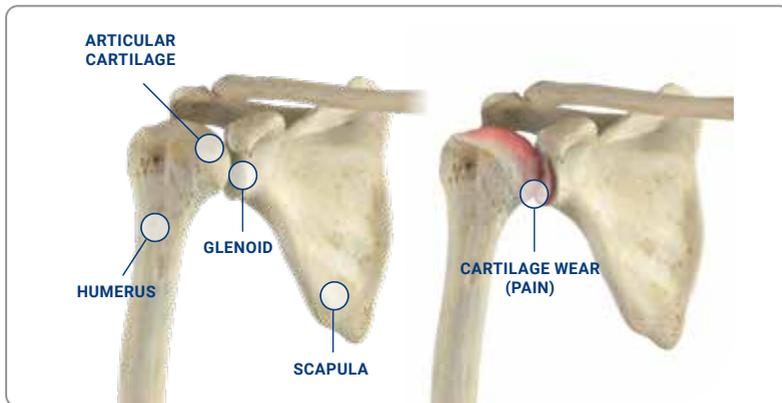


## What is osteoarthritis?

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The shoulder joint is the most mobile joint in the human body; it's a ball-and-socket joint between the humerus and the scapula. All the bone surfaces are covered by a cartilage layer that allows fluent movements.

One of the main causes of shoulder joint disease is the wear of the cartilage: osteoarthritis. **This wear is perceived as pain.** In the case of advanced osteoarthritis your doctor may suggest that you undergo a shoulder replacement.



## What is cuff tear arthropathy?

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The other main cause of shoulder joint diseases is CTA (Cuff Tear Arthropathy). Rotator cuff is a structure formed by four muscles and their tendons that guarantee shoulder stability. In case of rotator cuff insufficiency, pain occurs during movement.

## Why a Shoulder Replacement?

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Shoulder replacement surgery substitutes the damaged bone and cartilage of the joint with polyethylene (a plastic material) and metallic components.

The main benefits of a successful shoulder replacement are:

### 1. Reduction in shoulder pain

The pain will be rapidly and dramatically reduced.

### 2. Recovery of mobility

You will regain close to the original mobility of your shoulder.

### 3. Improvement in quality of life

Your everyday activities and your social life will no longer be limited by pain and reduced mobility.

## Why choose MyShoulder?

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MyShoulder technology enhances the benefits of a standard shoulder replacement by offering an **accurate and faster procedure, through the use of surgical instruments tailored to each patient.**

### ■ ACCURATE POSITIONING OF THE PROSTHESIS

MyShoulder fits the anatomical shape accurately, allowing precise preparation of the bone to receive the prosthesis. It has been proven that an accurate positioning of the prosthesis leads to an increased survival of the implant.

### ■ FASTER OPERATION

The use of MyShoulder technology is very simple and straightforward. It potentially allows the surgeon to reduce the operating time, thus decreasing the time under anesthesia and the risk of infection.

## Conventional procedures and MyShoulder

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The positioning of a shoulder prosthesis is performed using surgical instruments which prepare the bone to receive the prosthesis.

### CONVENTIONAL PROCEDURES

In the conventional procedures **the surgical instruments are the same for all the patients.**

### MYSHOULDER: THE INNOVATION

MyShoulder are surgical instruments which **fit your anatomy accurately, because they are tailored for you.**

MyShoulder instruments are manufactured with the innovative **3D printing technology**. This solution offers a very accurate manufacturing process and the highest design flexibility to match your shoulder anatomy. This allows to realize instruments specifically tailored for your shoulder, still respecting high quality standards.

The MyShoulder allows preparation of the bones to receive the prosthesis, respecting the characteristics of your anatomy.



**Your 3D Printed  
Patient-Specific Solution**

## The MyShoulder adventure

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### 1. Obtain an image of your shoulder

The surgeon will organize for you to have a 3D scan (CT) of your shoulder.

### 2. Replication of your shoulder and creation of MyShoulder

Using the 3D scans, Medacta will create a 3D model of your shoulder and your personalized surgical instruments.

### 3. Surgeon analysis of the planning

Your surgeon will adjust the settings of your MyShoulder plan to match your anatomy, planning the position of your final shoulder implant.

### 4. Preparation for surgery

Prior to surgery, your surgeon will receive the 3D printed MyShoulder instruments and the 3D bone models which are specific for your shoulder. These instruments will be used to perform the surgery.

### 5. ...enjoy your new shoulder!!!





If you have any concerns about your new shoulder  
don't hesitate to contact your doctor. Finally...

**...enjoy your new shoulder!**

For further information visit the website:

**[myshoulder4me.com](http://myshoulder4me.com)**