



restor3d

■ HIP IMPLANTS CUSTOMIZED FOR YOU

Every patient's anatomy is unique.
Shouldn't your implant reflect that?

THERE HAS TO BE A BETTER WAY

During conventional hip replacements, surgeons rely on standard, “off-the-shelf” implants that are not tailored to your unique anatomy. As a result, this can lead to leg length discrepancy (LLD), where one of your legs is longer or shorter than the other after surgery. LLD often causes decreased function and is a leading cause of patient dissatisfaction with hip procedures.¹ **restor3d® has a solution.**

1. Adams CT, O'Leary RE, Gheewala RA, Roberts JT (2021) Evolving patient perception of limb length discrepancy following total hip arthroplasty. J Arthroplast 36:S374–S379. <https://doi.org/10.1016/j.arth.2021.02.080>



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I have had building hip pain for years. As my cartilage wore down, my mobility suffered. Over time, I couldn't stand up straight, bend over to pick things up, or even put my socks on.

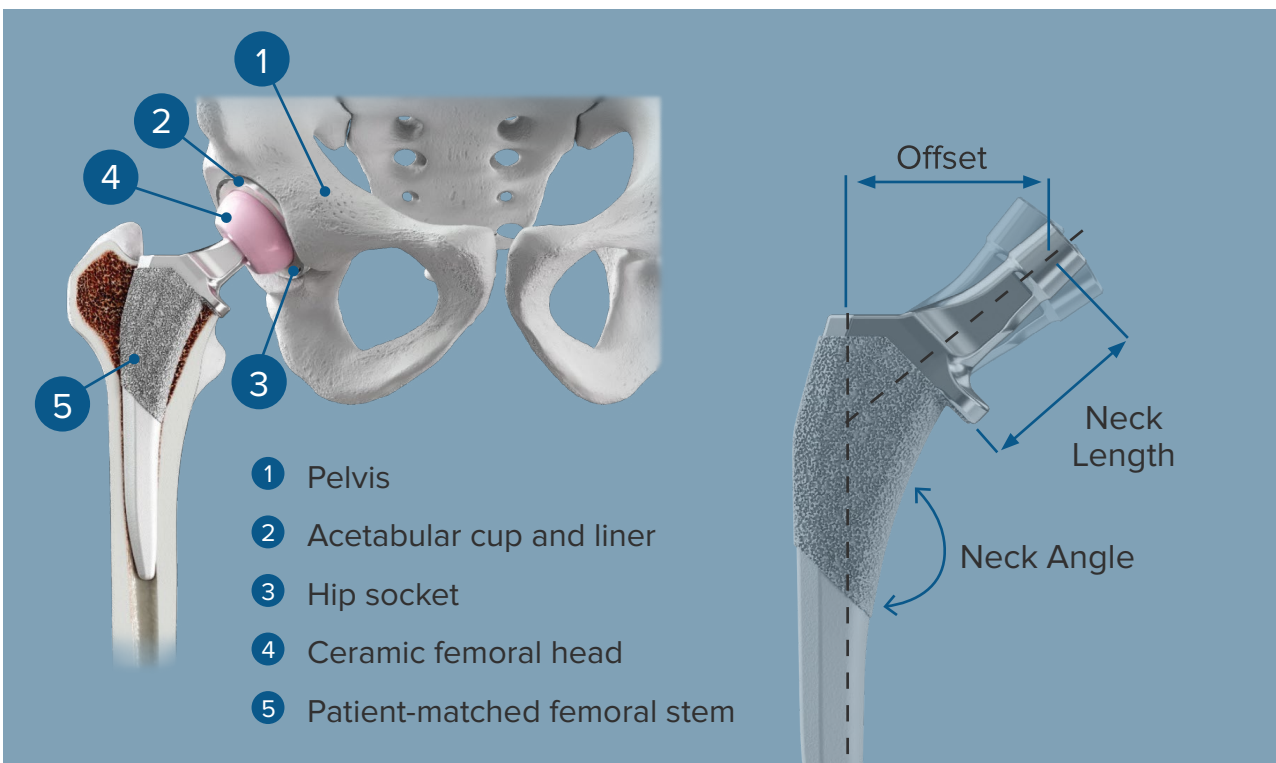
—Wanda, 63 restor3d patient

UNDERSTANDING YOUR HIP

To understand the benefits of the restor3d personalized approach, it's important to understand the anatomy of your hip. Your hip joint is the intersection between your thigh bone (femur) and your hip bone (pelvis). This is a ball-and-socket joint that provides a range of mobility and supports your body weight.

Osteoarthritis (OA) is a degenerative joint disease characterized by the breakdown and wearing away of cartilage causing the bones to rub together and result in pain. Arthritis damage is the most common reason to need hip replacement.

A total hip arthroplasty (THA) will remove damaged sections of the hip joint and replace them with biocompatible materials as shown below. Should hip pain begin to interfere with your daily life, these options can be discussed with your doctor.



HIP REPLACEMENT DESIGNED SPECIFICALLY FOR YOU.

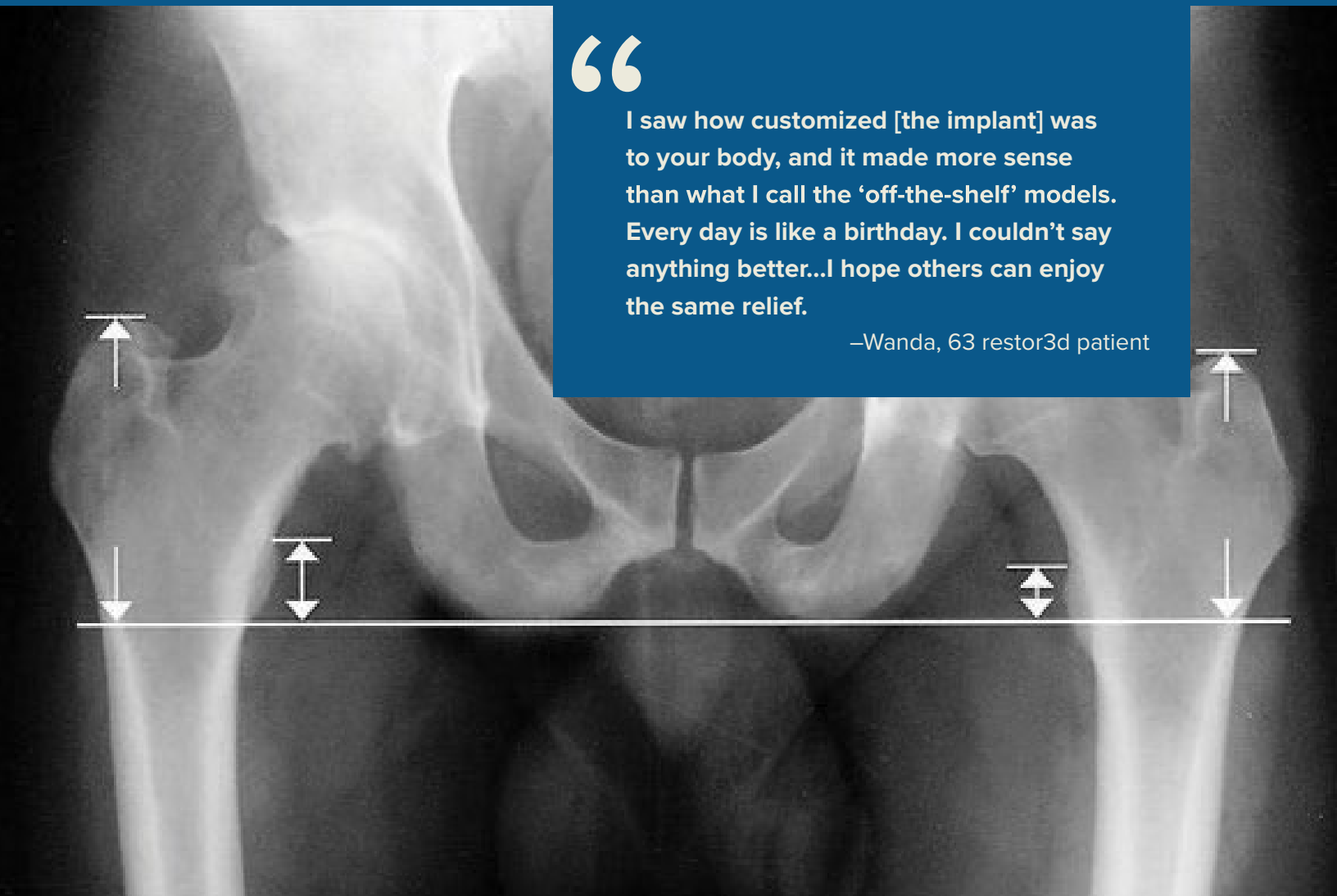
restor3d has developed the only customized hip implant that is meticulously designed to align with your individual anatomy, precisely matching the femoral implant with your hip's offset, neck angle, and neck length for a perfect fit.

Our goal in providing you with your restor3d hip is to reduce joint pain and enhance your overall quality of life.

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I saw how customized [the implant] was to your body, and it made more sense than what I call the 'off-the-shelf' models. Every day is like a birthday. I couldn't say anything better...I hope others can enjoy the same relief.

—Wanda, 63 restor3d patient



CUSTOMIZED PROCEDURE

The implants aren't the only aspect that are patient-specific. Each personally designed restor3d surgery comes with 3D printed guides that aid your surgeon in precisely placing your implants and preserving as much natural bone as possible. This hip system is fully designed for you with the goal of providing world-class, specially designed orthopedic implants and instrumentation which increase operating room efficiencies and help get you back on your feet sooner.

CUSTOMIZED DESIGN

restor3d's technology converts a CT scan of your hip into a 3D model and then designs an implant that's unique to you. This fully automated process ensures that your implant is made for your hip, and only your hip.

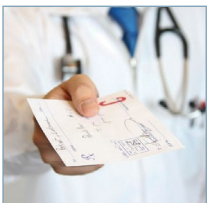
Your doctor will give you a prescription for a diagnostic CT scan of your hip

The CT scan will then be sent to restor3d for comprehensive analysis

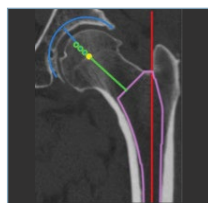
Using your CT scan, a 3D model of your hip is developed and will be used to individualize your implant

Your implant and surgical instrumentation are designed and manufactured specifically for you

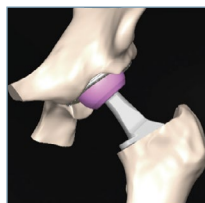
Your implant will be delivered to the hospital a few days before surgery



Scheduling a CT scan



Analyzing your hip



Designing your implant



Manufacturing your implants



Preparing for surgery

restor3d

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