MAASH HIP REPLACEMENT:
FAST TRACK, NO COMPLICATIONS

SUMMARY

- New European hip replacement technique, minimally invasive, that preserves main ligaments, capsule and nerves of the hip.
- Flash recovery: walking the same day of surgery; discharge in 2-3 days; back to work in 2 weeks; full recovery (including sports) in less than 2 months (current techniques can last up to 4-6 months).
- Patient may fly home in one week from the surgery.
- No dislocation; no dissymmetry in legs (traditional technique’s most serious complications).
- No age limit.
- More comfortable for the patient: forget the long lists of “don’t do” from other current procedures. Dressing, walking, movements and even sex can be normal again.
- Performed in an International Center of Excellence in Orthopedics. Highly experienced team.
- OmnixHealth exclusive partnership for International Patients

A MODERN METHOD FOR IMPLANTING A HIP PROSTHESIS IN RECORD TIME AND WITH LITTLE HASSLE

This procedure for hip replacement is big news in the field of this surgical specialty. Thanks to a new and complex surgical technique called MAASH, it manages to preserve the ligaments that provide stability to the hip, letting the patient recover in a minimum time, discarding the complications that occur with current techniques, and allowing the patient to have a normal life without having to worry about avoiding certain movements or postures, or having to use special tools for simple activities such as picking up objects from the floor.

This European technique is very innovative and has been tested in hundreds of cases. It has been presented at major global events of global orthopedic specialists and published in prestigious academic magazines. It is minimally invasive, making it more complicated for the surgeon, and requiring special tools. The hospital where it is mostly performed is recognized by The Corin Academy as a Global Center of Excellence.

SAFE, WITHOUT THE COMPLICATIONS THAT ARISE FROM CURRENT TECHNIQUES

Current hip replacement techniques have two types of serious complications: hip dislocation and dissymmetry (different length) of both legs. Both are avoided with the MAASH procedure.

Hip dislocation is a serious complication that involves the displacement and dislodgement of the two parts of the prosthesis: to explain it in a simple way, the part of the prosthesis located in the thigh is disengaged from the hip and therefore can oppress arteries, veins and nerves in a very important area of the

[In Short]

New, complex and spectacular surgical technique to replace hip; minimally invasive, respects hip ligaments, achieving a minimum recovery time and eliminating the complications of traditional - current techniques.

Traditional techniques have two serious complications: dislocation of the hip, and dissymmetry of legs (legs that end with different lengths). They are very difficult to treat.
human body. It is painful and very serious. This complication may occur with simple movements by the patient, such as sitting or squatting, tying shoes or even practicing certain positions during sex.

Dissymmetry is the fact that, after the traditional intervention techniques, both legs have a substantial difference in length. This complicates and causes discomfort when walking and eventually may lead to premature wear of other joints. Fixing up this complication is expensive and involves more surgery.

The main reason current techniques have these complications is because none of them preserve the major ligaments that provide stability to the hip. In these surgeries, regardless of the approach, these ligaments are cut and damaged, to allow free access to the surgeon to replace the hip. These ligaments are then sewn, but like a spring that has been broken and glued, the ligament won’t ever fully recover. As these ligaments no longer work properly, the prosthesis can dislocate easily, and the leg tends to fall and present dissymmetry. All of this is avoided with the MAASH technique. It is more difficult for the surgeon to master, but by practicing a much less invasive surgery, it respects the ligaments and thus the patient can get a new hip without complications.

To ensure that everything is done correctly, three surgeons work simultaneously during the MAASH procedure (unlike surgeries with current techniques, where only a primary surgeon and assistant surgeon are needed). This improves both safety and the outcomes of the surgery.

In the more than 200 cases that have been conducted to validate this technique, the rate of dislocations has been zero, asymmetry in the legs has been negligible (in fact legs end up more equal in length than before the surgery) and there have been no reoperations (no need for a second surgery to correct errors). It is a really safe technique.

**COMFORTABLE, WITH A FLASH RECOVERY**

The fact that this new technique respects the hip ligaments makes the recovery truly fast. Patient may walk the same day of surgery, be discharged from the hospital in two days, go back to work in two weeks and fully recover, including playing sports, in two months.

This contrasts greatly with the usual outcomes from traditional techniques, where it typically takes 3-7 days to leave the hospital (if there are no complications) and up to 6 months to return to normal activities.

The shorter stay in the hospital also has an added bonus: the infection rate is very low. In addition, the hospital where MAASH is performed is an International Centre of Excellence specialized in this technique, where patients with other medical conditions that may increase the infection rate are not accepted. This sharply contrasts with current techniques that, by forcing a longer stay and being more traumatic to the patient, consequently carry a higher rate of infections. Moreover, as it is well known, hospital acquired infections are often resistant to many antibiotics, very difficult to recover from, and in many cases end up with huge complications or even death.

The fact that MAASH technique is minimally invasive, respects ligaments and the

**MAASH technique avoids these complications by preserving the ligaments and joint capsule.**

**In this technique three surgeons are doing surgery simultaneously: more precise surgery, safer, less concerns for the patient.**

**More than 200 cases performed. Without complications.**

**Patient will walk the same day of surgery, will be discharged from hospital in 2 or 3 days, back to work in two week and fully recovered in two months (including practice of sport) -using traditional techniques most patients take up to 6 months to return to full normality.**

**Very low rate of infection.**
majority of the joint capsule, additionally leads to the fact that most nerves in the area are preserved. The patient retains the sensitivity of the hip, giving them a sense of stability and security, without any fear that the movements he or she is trying to perform will fail because of hip limitations. Again, this contrasts with the outcome of current techniques, where the patient usually feels that he or she has a foreign body within the hip and is not sure that the prosthesis will respond well.

VERY EFFECTIVE, WITHOUT THE LIMITATIONS OF OTHER TECHNIQUES

When a patient undergoes surgery for hip replacement with traditional techniques, there is a long list of forbidden movements and lifestyle changes to avoid the appearance of dreaded complications like hip dislocation. These include things such as not sitting on low seats, not bending over to pick up objects, using special tools in the bathroom, using special shoes for walking, avoid elevating the legs or wide-open hips, do not turn legs inward, get used to climbing up or down the stairs using the legs in a particular order, wear socks with certain characteristics or some particular kind of shoes, getting aid or special devices to tie shoes, etc.

All this changes with the MAASH technique. By preserving the ligaments that stabilize the hip, it responds to movements in the same way as a normal hip. The joint capsule, which is the membrane that surrounds the joint and where ligaments are integrated, is fully functional and helps to stabilize the joint and prevent its dislocation. Dreadful hip dislocation will not appear.

CUSTOMIZED FOR DIFFERENT RACES

The morphology of the leg and hip bones is different in the case of different human races. This fact is not well known, although it is published in specialty magazines (e.g. in the Chinese case "Measurement of proximal femoral morphology and analysis of 500 cases in Hunan Province", Journal of Central South University, 2014, ISSN 1672 -7347). There are even significant differences between Chinese and Japanese patients, and obviously between them and Caucasian ones. Naturally, this fact makes it convenient to customize orthopedic techniques (something that is not usually done with traditional techniques).

Surgical approaches and techniques used in the MAASH procedure are different for different races. In addition, in some cases where it is necessary, they are customized for a particular patient. Despite the fact that this adds more complexity to the procedure, it certainly helps to get an even faster recovery and a much lower rate of complications.

WHAT DO PATIENTS SAY ABOUT MAASH?

Of course, patients are delighted with this technique. Quick and comfortable recovery is something that surprises them. But perhaps the best judges of this, are patients who in the past had undergone surgery on one hip with a traditional technique -in some cases even by the same medical team that now uses MAASH- and now have undergone surgery on the other hip using the MAASH procedure.

Patient feels the prosthesis as a natural part of the body, not as a foreign object inside.

By preserving the ligaments, hip is fully functional. There is no limitation of movement. Dressing up is again a normal thing. Pain goes away. Even the practice of sex is normal.

Different races have different anatomical features in the legs. MAASH technique is customized to each one. Even for a particular patient, if necessary.

Patients who have tried both this technique and
They could compare firsthand the advantages in terms of speed and convenience and in their own words: "I wish it would have been possible to undergo surgery with this new technique on my other leg." And as some of them say: "Doctor, I feel the hip as mine, I feel secure."

**PERFORMED IN AN INTERNATIONAL EXCELLENCE CENTER**

The hospital where this procedure is mostly performed, Sant Celoni in Barcelona, is a Center of Excellence recognized by The Corin Academy. This organization is responsible, through scientific meetings and other innovative educational formats, to provide a wide range of opportunities to debate and discuss current concepts and best practices in orthopedic treatment.

In this center the practice of orthopedic surgery is fundamental, and in fact it is one of the main areas of specialization. The size of the hospital, adapted to orthopedic surgery, helps the infection rate to be negligible – unlike the big European or American hospitals, where the influx of large numbers of people makes the possibility of getting hospital infections higher.

**IN THE HANDS OF A SPECIALIZED TEAM WITH EXTENSIVE EXPERIENCE**

Doctor Antoni Salvador, head of the Department of Orthopedic Surgery and Trauma of the Hospital, leads the team of surgeons in charge of this technique. The experience of the team in the field of Orthopedic Surgery spans across several decades. They are recognized experts in the techniques of traditional hip arthroplasty. And thanks to this extensive experience, this team has designed a new technique to avoid the complications that appeared with the old ways of hip replacement.

Before disclosing publicly these impressive results, the team has conducted more than two hundred surgeries to be sure that they knew and dominated all aspects of the new and complicated surgical technique. It was then that they made public the results, publishing them in first-line medical journals, showing them in international events and setting up training courses for other surgeons.

**RECOGNIZED AS ONE OF THE MAJOR ADVANCES IN ARTHROPLASTIA**

This technique has appeared in "The Musculoskeletal Journal of Hospital for Special Surgery," in July 2013. This prestigious magazine is published and managed by the Hospital for Special Surgery, a New York center that is one of the leading hospitals in the world – if not the best one – in the field of joint replacement surgery. Founded in 1863, it is the oldest orthopedic hospital in the USA and the one where more procedures are performed during the year. Posting in its magazine is extraordinarily difficult to achieve, and means global recognition of the technique.

This technique is presented at major scientific events of orthopedics, such as the European Hip Society (whose president is already training on it). There will also be special sessions for some world-class surgeons, Europeans and Americans, in the second part of 2014.
**CAN I HAVE SURGERY WITH THIS TECHNIQUE, WITH MY OWN DOCTOR?**

In short, no.

This technique is a brand new one, and requires special training to master it. The technique has been internationally published and fully explained and in the fourth quarter of 2014 there will be international training courses on it, which will combine the teaching of this technique in corpses and living patients. Like in the case of other surgical techniques before, it will expand around the world as the surgeons will be trained on it, but this will take years.

Moreover, applying this technique without proper training is not recommended at all – quite similar to the use of a guinea pig in research. Remember that you must have three orthopedic surgeons performing the surgery simultaneously. Therefore, the best option is to be treated by the original team who designed MAASH, which is the one that has the most experience.

**CAN IT BE USED IN ALL CASES?**

Yes, in almost all cases, regardless of age.

Only in the case of reoperations after traditional techniques is the procedure not as effective. If you have undergone hip replacement surgery in the past and now you need to replace the prosthesis, the results of this technique will be similar to the other current procedures. The reason is that in the first hip replacement surgery, surgeons tore ligaments and damaged the capsule and so, now no ligaments can be preserved.

**HOW LONG WILL I BE AWAY FROM HOME?**

A very short time.

After confirming the appointment with the medical team, you will have to pass pre-surgery tests (blood, RX, electrocardiogram). If there is nothing abnormal, the next day you will undergo surgery, and begin to walk the very same day. After one week you will fly home.

To speed up the process, medical records should be sent to the surgical team through OmnixHealth, who will get them translated if needed and forwarded to the medical team.

*Today, this technique is not available in other centers or hospitals. It will take years for surgeons in other countries to be trained and fully skilled. Three surgeons are required. Better be sure that they are the ones that have designed MAASH and who have the most experience in it.*

*There is no age limit to perform it.*

*Patient will be flying back home in a week.*
EXCLUSIVE FOR OMNIXHEALTH

OmnixHealth is the only company in charge of the management of international patients who want to undergo this treatment. We provide the best available rates as well as any other service that the patient or their family might require: accommodation, travel, interpreters, help with a visa, medical staff appointments, etc.

In special cases, you can also ask for MAASH surgery to be performed in the patient's country of origin. In these cases, surgeons will travel to the country to do the surgery. The surgeons will be members of the original team that have designed this procedure.

WHAT SHOULD I DO NOW?

Call us or contact us by email; we have a special team to take care of everything:

contact@OmnixHealth.com
+1 (352) 834 04 95 (US)
+44 20 3290 3039 (UK)

Barcelona:
Av Diagonal 401, 2nd Floor
08008 Barcelona
Spain

Miami:
1666 Kennedy Causeway
Suite 702
North Bay Village
FL 33154

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Surgical team can go abroad for treating special cases.

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contact@OmnixHealth.com