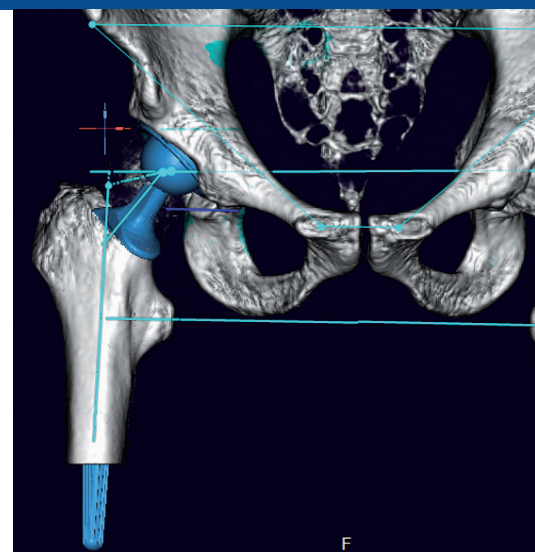


Digital planning in hip endosurgery

An interview with Professor Philippe Massin

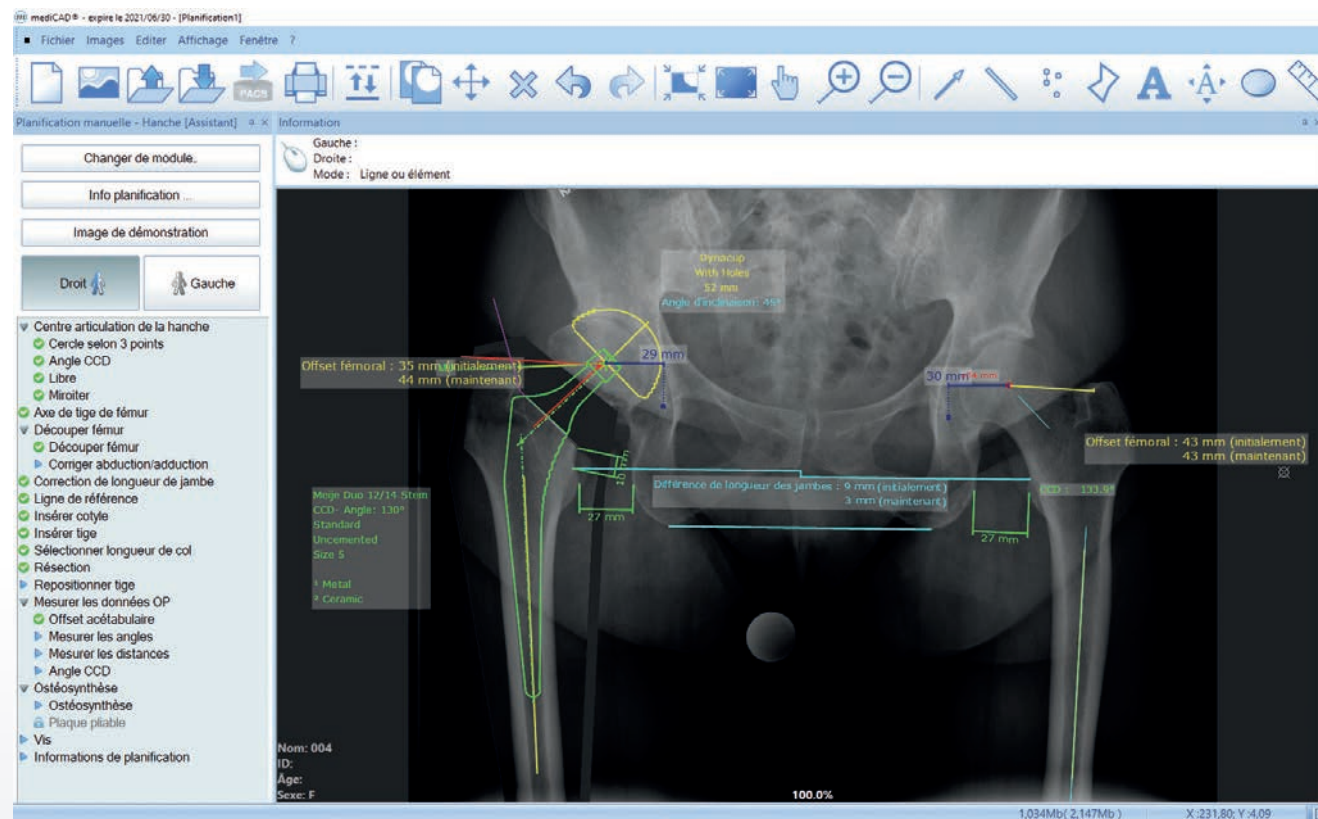


mediCAD®
The Orthopedic Solution



An interview with Pr. Dr. Philippe Massin

Hip endoprosthesis surgery in a French private clinic



Pr. Dr. Philippe Massin

mediCAD Hectec GmbH:

Can you briefly describe your professional background?

Pr. Dr. Philippe Massin:

After an internship and a clinat performed at AP-HP hospitals in Paris, my training was completed by a doctorate in Biomechanics at the National School of Arts and Crafts and year of research in the United States to Anderson Research Institute (Arlington Virginia, 1988). My work focused on the evaluation of the anchorage of cementless total hip prostheses, and two publications of mine are among the 100 most cited papers in the orthopaedic literature on the hip. Subsequently, I was appointed chief of service of the Poissy Saint Germain-en-Laye hospital (1997-2000).

In 2000, I became a university professor, I took over management of the orthopaedic surgery department of Angers hospital until 2008. Following this, I became head of the orthopaedic surgery department of Bichat and Beaujon hospitals (2008 - 2016) from the APHP Paris hospital group, combining these functions with those of coordinator of interns for Ile-de-France region (2012-2016).

Since 2016, I have been installed at the Hartmann clinic. I have been successively president founder of the French Society for Research in Orthopaedic Surgery (2006- 2012) and of the French Society of Hip and Knee (2014-2016). Finally, I was elected as president of the French Society for Surgery Orthopaedic for the year 2022.



Prof. Dr. Philippe Massin works in his own practice and carries out his interventions in a private clinic in the west of Paris, whose main activity is orthopedic surgery.

Prof. Dr. Philippe Massin, who specializes in hip replacements in particular, is one of their experts and one of the most popular surgeons in France in this field.

Pr. Dr. Philippe Massin

- Former Head of Department at Paris Hospitals
- Past-President of the French Hip and Knee Society
- Vice-President of the French Society of Orthopaedic and Traumatology Surgery
- Member of the National Academy of Surgery

Practice adress:

- Cabinet: 3 rue de l' Hôtel de Ville F-92200 Neuilly Sur Seine

An interview with Pr. Dr. Philippe Massin

Planning for special cases too

mediCAD Hectec GmbH:

Since when have you been practicing classical preoperative planning with layers? Is it related to your training, the influence of former professors or a personal conviction?

Pr. Dr. Philippe Massin:

I have always practiced planning for first-line total hip prostheses and revisions, as my masters taught me. In Arlington at Charles Engh, there were planning staff. While in most cases, planning is simple and fast, it predicts difficulties for special cases in connection with unusual anatomies and adapts the operating technique.

mediCAD Hectec GmbH:

What was your motivation to migrate to a digital planning solution and what does it bring you more in the context of the activity of prosthesis placement within the clinic?

Pr. Dr. Philippe Massin:

The practice of digital planning habits has imposed itself upon the medical world with the digitalisation of X-ray images, which are no longer provided in real size. Thanks to the calibration, it makes it possible to reproduce the conventional planning with an accuracy at least as satisfactory and with the same speed. It allows better management of stocks of implants to within one or two sizes.



mediCAD Hectec GmbH:

And what about our mediCAD® 2D application which you have been using since 2017?

Pr. Dr. Philippe Massin:

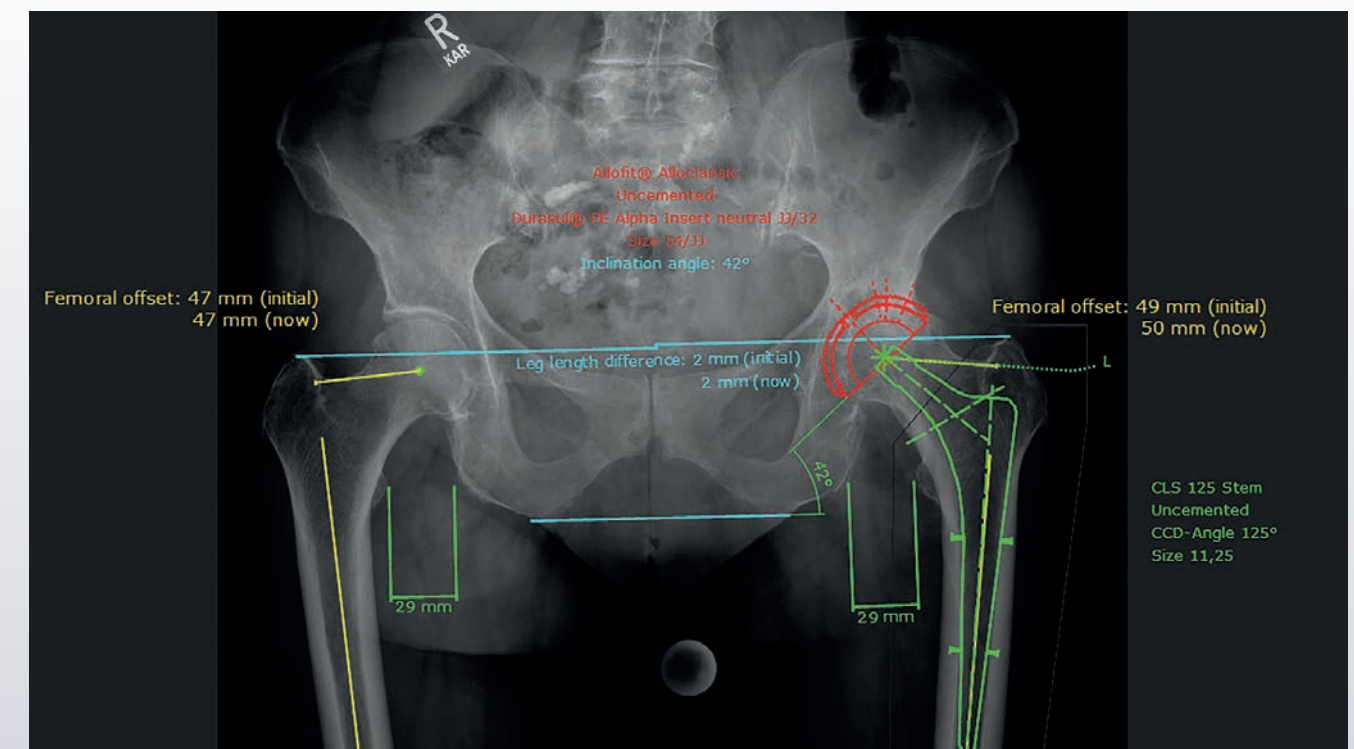
mediCAD® 2D allows me to keep my planning habits and to keep the preoperative planned X-ray in the patient file to compare with the postoperative X-ray. It is a tool that allows the surgeon to have a „feedback“ and to always improve the accuracy of his actions in the implant position and length adjustment.

mediCAD Hectec GmbH:

How does planning with mediCAD® affect your daily work? What are its advantages in your practice?

Pr. Dr. Philippe Massin:

The mediCAD® tool allows you to look at the patient's particular anatomy and predict levels of femoral neck cutting and femoral stem insertion that speed up the surgical procedure. When I feel that I am reproducing my planning correctly, trial reduction, for example, is a step that can be avoided with immediate placement of the implants and definitive reduction from the beginning. Major length errors experienced by the patient become exceptional.



An interview with Pr. Dr. Philippe Massin

A digital planning tool is essential in hip surgery

mediCAD Hectec GmbH:

How do you measure the benefits brought by mediCAD®?

Pr. Dr. Philippe Massin:

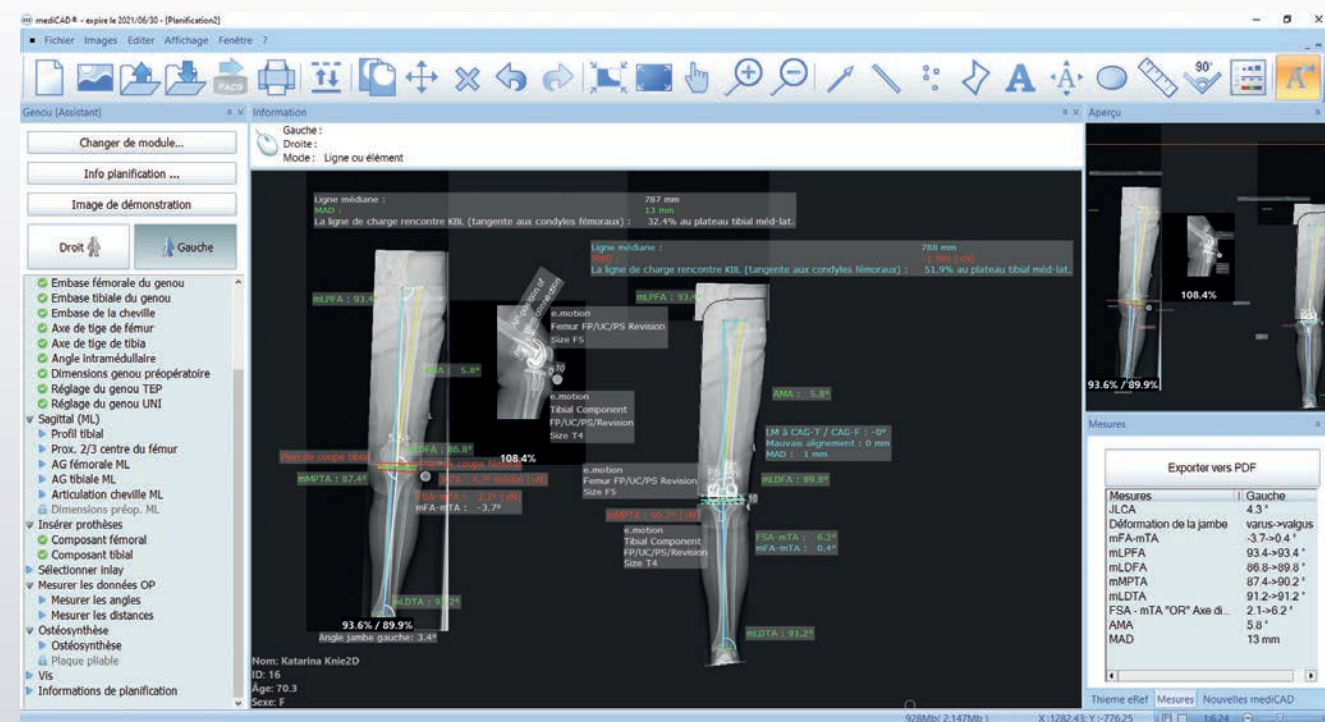
A digital planning tool seems to me essential in hip surgery whether in a hospital or private clinic. In surgery in a hospital, it also used for the training of young surgeons. For the experienced surgeon, this planning step may seem tedious, but it avoids falling into routine and blind automatism which inevitably produce complications (length inequality, instability).

mediCAD Hectec GmbH:

Is mediCAD® an indispensable tool for a private surgeon, for a clinic, in the global quality improvement process?

Pr. Dr. Philippe Massin:

mediCAD® definitely contributes to the quality improvement process. It meets all the surgeon's needs and is suitable for both primary surgery and complex reversion cases. It contains the right tool for every procedure. The richness of mediCAD®'s templates library with a numerous tools makes it a valuable asset and a universal tool.



The development

mediCAD Hectec GmbH:

Is the evolution towards 3D planning a step to improve planning reliability?

Pr. Dr. Philippe Massin:

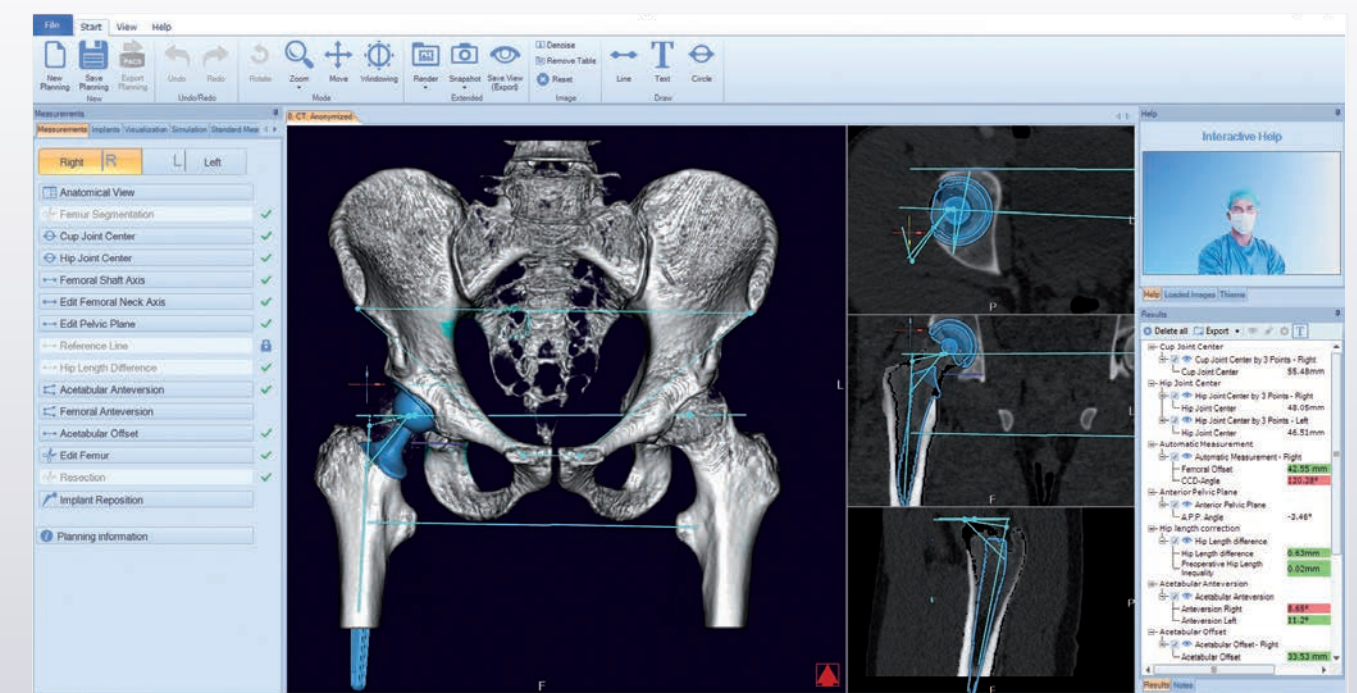
3D planning is a useful tool in anatomies circumvented hip dysplasia, where the shape of the standard implant does not find the perfect fit with the medullary canal. It also allows the calculation of the exact anteversion and inclination of the cup, combined with the femoral anteversion. Finally, it guides the bone reconstructions in the revisions, and helps the surgeon to determine the best solution by drawing on a rich display of techniques and implants.

mediCAD Hectec GmbH:

A conclusion? Any additional suggestions or comments?

Pr. Dr. Philippe Massin:

Hip surgery is a beautiful surgery, infinitely varied, where many unknowns persist. The surgeon has never finished progressing and needs to carry out surgical planning and to compare its results. This allows him to critically assess his technique and better understand the clinical significance of any imperfections he may see.



mediCAD® - Healthcare with intelligence



Hip



Knee



Long Leg



Upper Extremities



Trauma



Foot



Spine



Template



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