INTRODUCTION TO OPS™

The Corin Optimized Positioning System (OPS™) is designed to assist with the alignment of components during Total Hip Arthroplasty, whereby pre-operative functional imaging is used to identify an optimal patient specific acetabular orientation and femoral osteotomy level, through three-dimensional templating and dynamic analysis of the joint. The OPS™ solution includes pre-operative planning reports and intra-operative patient specific instruments to deliver the plan.

For more information contact your local Corin sales representative.

Patient Imaging

OPS™ requires patient specific imaging, and thus patients will be exposed to radiation. The following imaging is required. Refer to the OPS™ CT and X-ray protocol for more information regarding the OPS™ imaging requirements.

	Acetabular OPS™	Femoral OPS™
CT scan (bilateral, slices taken at pelvis, knees and ankles)	✓	✓
CT scout images (AP and lateral, if available)	✓	✓
Lateral standing X-ray (including all required landmarks)	✓	
Lateral step up X-ray (including all required landmarks, x2 for bilateral referrals)	✓	
Lateral flexed seated X-ray (including all required landmarks)	✓	
AP standing X-ray		✓

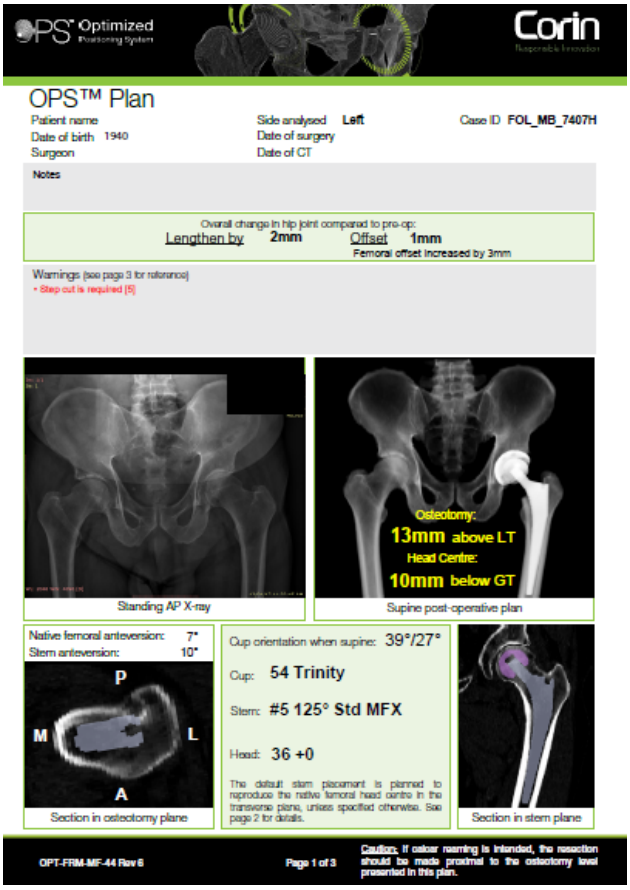
Pre-operative Reports

OPS™ Plan – The OPS™ Plan is a static report which presents the CT templated implants and measurements.

The Corin OPS™ Plan is indicated for pre-operative planning for primary total hip arthroplasty. The OPS™ Plan is intended to be used as a pre-operative tool to assist the surgeon in the selection (for example, lateralised or standard stem), sizing and positioning of components required for primary total hip arthroplasty.

The Corin OPS™ Plan is intended to be used with the Corin TriFit TS™, MetaFix™, TaperFit™, MiniHip™, Femoral Hip Stems and the Corin Trinity™ Acetabular System.

There are no known contraindications for the OPS™ Plan.


OPS™ Plan

Patient name
Date of birth 1940
Surgeon

Side analysed Left
Date of surgery
Date of CT

Case ID FOL_MB_7407H

Notes

Overall change in hip joint compared to pre-op:
Lengthen by 2mm
Offset 1mm
Femoral offset increased by 3mm

Warnings (see page 3 for reference)
• Step cut is required [5]

Standing AP X-ray

Osteotomy:
13mm above LT
Head Centre:
10mm below GT

Supine post-operative plan

Native femoral anteversion: 7°
Stem anteversion: 10°

P
M
L
A

Section in osteotomy plane

Cup orientation when supine: 39°/27°
Cup: 54 Trinity
Stem: #5 125° Std MFX
Head: 36 +0

The default stem placement is planned to reproduce the native femoral head centre in the transverse plane, unless specified otherwise. See page 2 for details.

Section in stem plane

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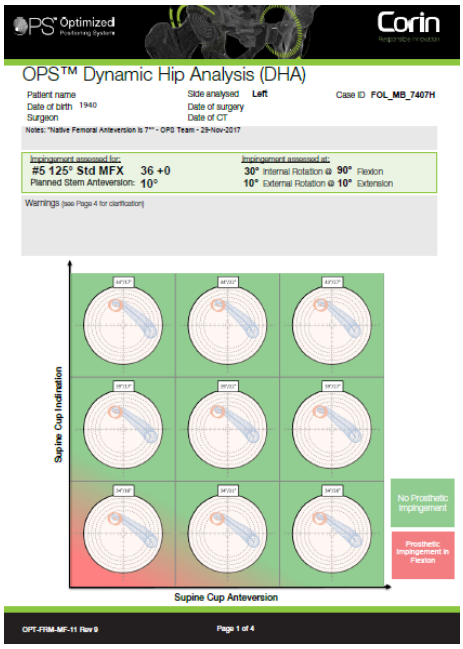
Caution: If calcar reaming is intended, the resection should be made proximal to the osteotomy level presented in this plan.

DHA Report – The DHA report displays the results from the dynamic simulation of functional activities. The calculated joint reaction force and contact patch of the simulated prosthetic femoral head as it articulates in the acetabular liner are displayed as the slinky plot. The prosthetic impingement of the planned implants are displayed in the colour map. These are presented on a two page report with the measured functional radiographs.

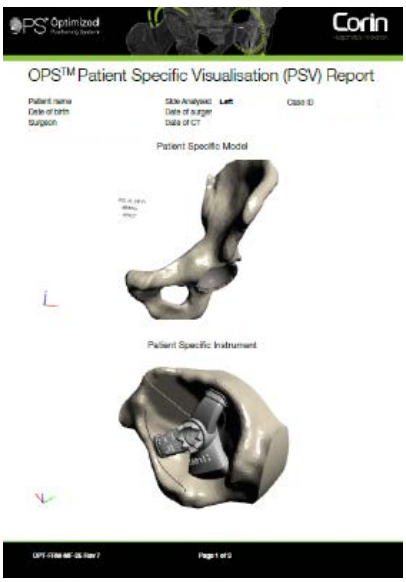
sto assist the surgeon with the alignment of components during total hip arthroplasty.

The OPS™ Acetabular Planning system is indicated to be used with the Corin OPS™ Plan , Corin TriFit TS™, MetaFix™, TaperFit™, MiniHip™ Femoral Hip Stems and the Corin Trinity™ Acetabular System.

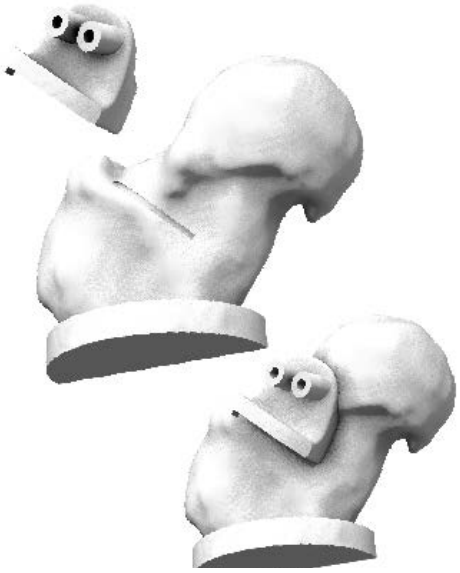
There are no known contraindications for the DHA Report.



PSV Report – The patient specific visualization (PSV) report is an interactive report containing the *in situ* planned cup and patient specific instrument (PSI) guides. This report is able to be opened using 3D visualization software on most devices.



Intra-operative Guides



Femoral Guide – The femoral guide is a PSI designed to aid in an accurate osteotomy during THA. This guide varies in design depending on the surgical approach chosen.

The Corin OPS™ Femoral PSI are intended to be used as a patient specific surgical instrument to assist the surgeon in delivering a target femoral osteotomy, based on a pre-operative plan with implant sizing, type and placement. The Corin OPS™ Femoral PSI are intended to be used with the OPS™ Plan and with the Corin TriFit TS™, MetaFix™, TaperFit™, and MiniHip™ Femoral Systems. The Corin OPS™ Femoral PSI are intended for use with the posterolateral, anterolateral and direct anterior surgical approaches.

Acetabular Guide – The acetabular guide is a PSI designed to aid in delivering a patient specific cup orientation. The PSI is designed to be used in conjunction with the OPS™ Reusable instruments.

The Corin OPS™ Acetabular PSI are intended to be used as a patient specific surgical instrument to assist in the alignment of components during primary total hip arthroplasty. The Corin OPS™ Acetabular PSI are intended to assist in the orientation of the acetabular cup intra-operatively. The Corin OPS™ Acetabular PSI are intended to be used with the Trinity™ Acetabular System and the respective compatible components.

PSI Contraindications – The Corin OPS™ Acetabular and Femoral Patient Specific Instruments, are contraindicated for:

- Patients in which total hip arthroplasty is contraindicated
- Patients with insufficient bone structure or quality, which may not allow for rigid attachment of instruments
- Other disorders that affect pelvic anatomy and bony landmark recognition
- Any other implant system apart from the Corin Hip Systems referenced above.

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