Total Hip Arthroplasty (THA) involves replacement of the damaged portion of the hip with artificial components.

There are **critical measurements** related to the selection, positioning and alignment of the new artificial hip components including:

- the angle of the new cup
- leg length
- hip offset

Accurately determining these values can reduce potential complications including:
- readmission to the hospital
- a second hip replacement surgery (revision hip surgery)

For more information contact: sales@intellijointsurgical.com

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CUP POSITION
The angle of the artificial cup that is fastened to your pelvis is very important.

Malposition of the cup can lead to:
- hip instability & dislocation
  a painful complication that can result in another trip to the hospital and potentially even another hip surgery to correct the problem. Dislocation/instability are the leading reasons for revision hip procedures\(^1\).
- implant loosening
- pain

62% of cups are not placed within a target range using manual techniques\(^2\).

LEG LENGTH
Leg length discrepancy (LLD) is a condition where one leg ends up either shorter or longer than the other following your hip replacement surgery.

LLD can result in:
- hip and lower back pain
- reduced hip function
- nerve impairment
- difficulty walking
- requirement of patients to use a shoe lift

LLD is reported in up to 30% of initial hip replacement procedures\(^1,4\).

OFFSET
It is critical to maintain this distance after inserting your new hip components to ensure a successful hip replacement surgery.

Failure to maintain offset can lead to:
- reduced muscle strength
- reduce hip range of motion\(^5,6,7,8\)
- long-term pain\(^9\)

How are these critical measurements obtained in traditional hip replacement surgery?
- Surgeons use professional judgement to assess the feel of the joint
- Eyeballing the position of the components

intelliJoint HIP provides information down to the millimeter. To achieve this level of accuracy, the camera is attached directly to your hip. This requires two small incisions in the crest of the hip. Once the camera is attached, the surgeon has the most accurate and up to date information throughout the surgery and can make the best decisions for each patient.

Full references located at: www.intellijointsurgical.com/references