



# ORTHOGRID

HIP AI®

## AP PELVIS: IMAGING CHECKLIST

### Set up:

- Plug the OrthoGrid machine into the wall power and turn it on.
- Connect the appropriate cable to the C-Arm monitor cart.
  - a. Display port for Flat Panel
  - b. BNC Port for Round/intensifier
- **Select the “Hip AI” Icon, Type in MRN, Date & Surgeon**
- **Select “Start,” C-Arm Type, Select Operative Side (Left or right).**
- You are ready to begin.

### Baseline Images (Optional)

1. Get the A/P Pelvis to match the functional pelvic pitch as close as possible to the Standing film from the clinic. (Dr. Ben-Zev will lead this)
2. Once the desired pelvic and femoral position is achieved, “Select **“Save Reference”**.”
  - a. Ensure that the cross hatches are precisely on the teardrops and equidistant from the edges of the operators. Ensure the center line bisects the pubis & Sacrum (middle of the pelvis) to ensure proper rotational alignment (30-40 degrees of external on both limbs).
    - i. To re-set the “ref” image, go to the camera roll and delete the **“Ref”** image.
3. **Calibrate the image** (put desired calibration object in the field of view) Be sure to avoid placing the caliper over anatomy, as this may disrupt AI analytics of the image. Select **“Cal.”** and use either the circle tool or the line tool to calibrate off a known value, such as a caliper or a reamer of a size of your choosing.
  - a. Set the caliper to the templated cup size to optimize the system
4. **\*Important:** Teardrop and lesser trochanter orientation is critical to getting good & reproducible data. Remain diligent throughout the case recreating the view seen in the beginning **“Reference image.”**

### Cup Analytics

**\*If the base line step above was skipped at the beginning, complete step 1 and 2 above before proceeding with the cup.**

1. This will be automated.
  - a. Ensure “Radiographic” is selected
2. Works “best” if non-op tear drop is in field of view (2/3 view of the pelvis).
3. Pay attention to the delta between the Teal “T” (reference image) and the Dark Blue “T” current position. Adjust as needed to make them coalesce.
4. After verifying the cup position, reset calibration by selecting “**Cal**” using the Cup with the circle tool. (enter cup size)

## **Trial**

5. Repeat steps 1 & 2a from “**Baseline images.**”
  - a. **Note that the operative native version may have changed. Be prepared to adjust operative limb rotation to recreate mirror symmetry to the non-operative side.**
6. Pay attention to the delta between the Teal “T” (reference image) and the Dark Blue “T” current position. Adjust as needed to make them coalesce.
7. Leg Length and offset for contralateral will be presented. If not, calibrate the image as this step may have been skipped earlier.

## **Done!**

- To save to an external disc, put the USB in the free slot, hit the “**Finish case**” button at the bottom right, “**Select All**”, choose image type (**JPG & DICOM**), and then hit “**Export.**”