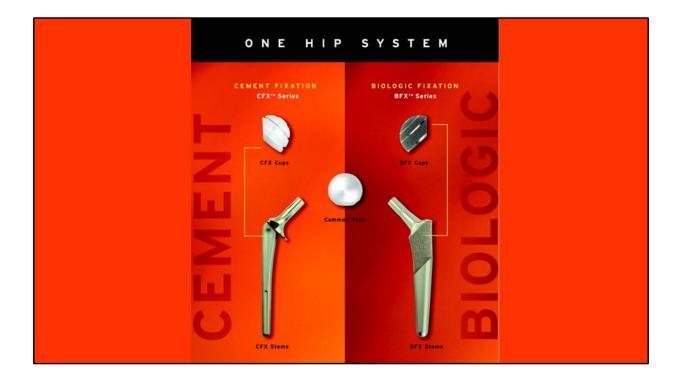
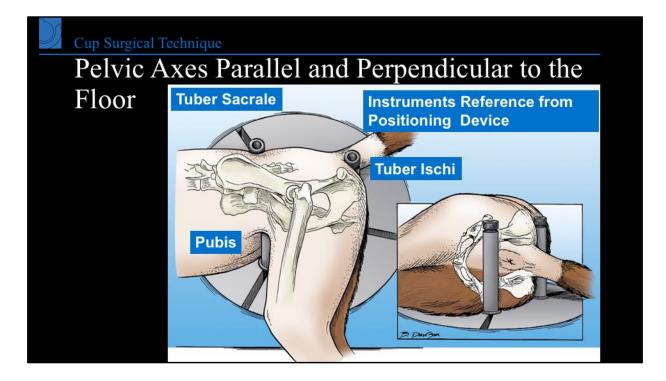
	The Universal Hip Workshop	
Ì		Î
	Cup Surgical Technique	
	Cup Surgical Technique Jonathan Dyce MA, VetMB, MRCVS, DSAO, DACVS	



Cup Surgical Technique

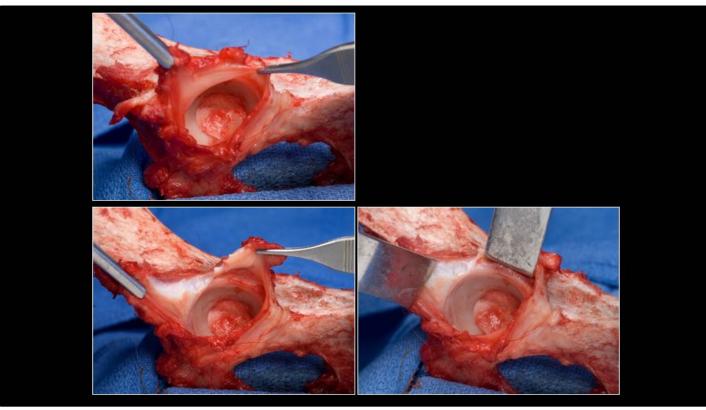
Overview: Acetabular Preparation

- Templating
- Patient positioning
- Surgical exposure
- · Reaming to achieve press-fit
- Cup insertion
- Cup alignment and adjustment



Surgical Approach

- Cranio-lateral Approach
- Must develop adequate exposure
- Locate reliable references or landmarks



Cup Surgical Technique

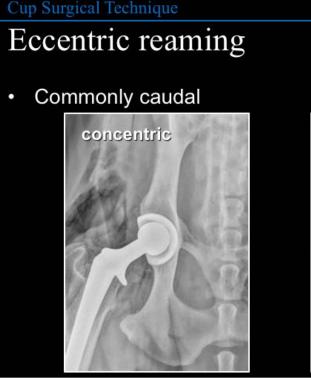
Acetabular Bone Preparation & Press-fit Enhanced: Two Stage Reaming Process

- Depth: Starter Reamer
 Odd numbered sizes
- Diameter: Finishing Reamer
 - o Even numbered sizes

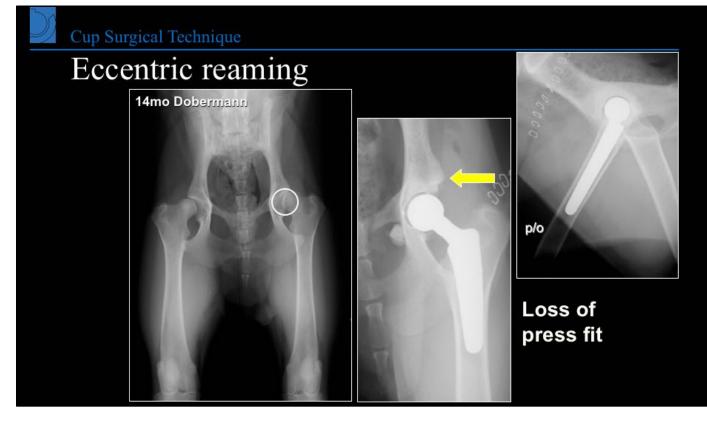


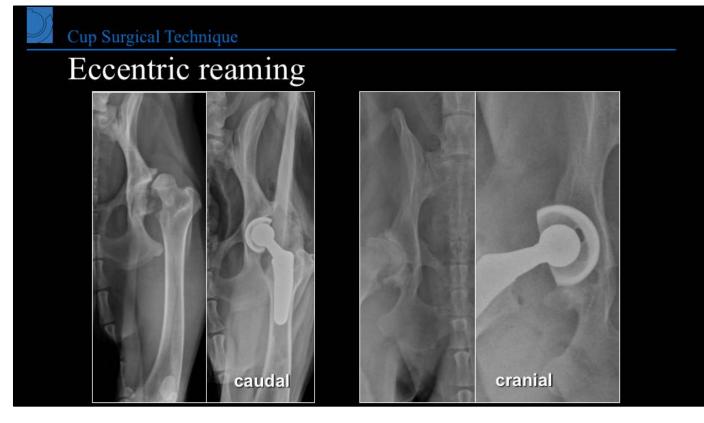
Reaming

- Starter reamer: cheese grater
 - o Undersized 1mm smaller than the finishing reamer
 - Remove cartilage and sclerotic bone
 - Create depth
 - Ream to appropriate depth (cranial and caudal bone columns; often to medial wall



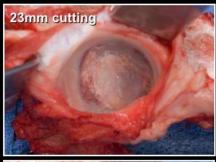




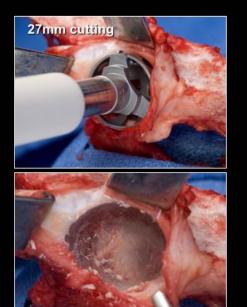


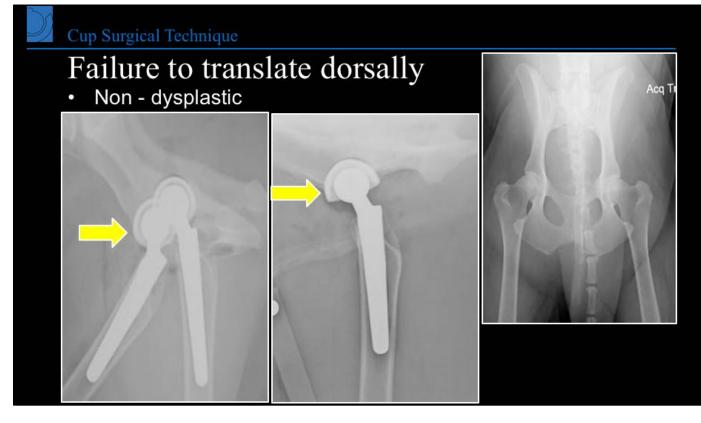
Cup Surgical Technique

Concentric reaming











- Dorsal subchondral bone
- Selective reaming dorsally
- Confirm seating with trial cup

Cup Surgical Technique

Excessive dorsal translation

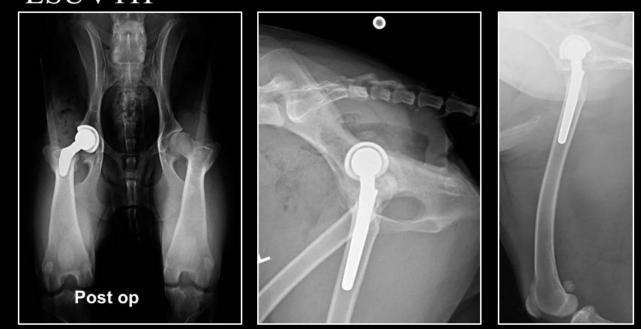
- dysplastic arthritic hip
- saucerization



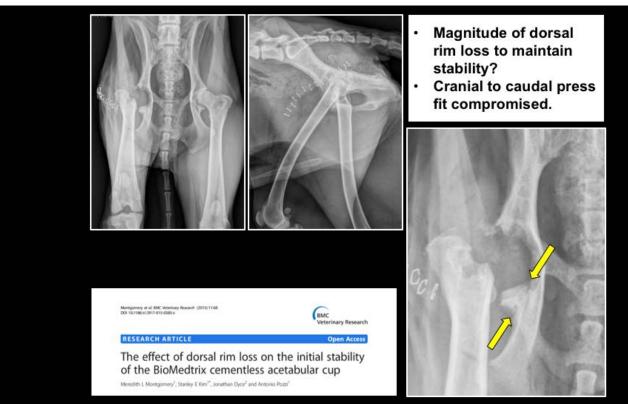


Cup Surgical Technique

ESUVTH

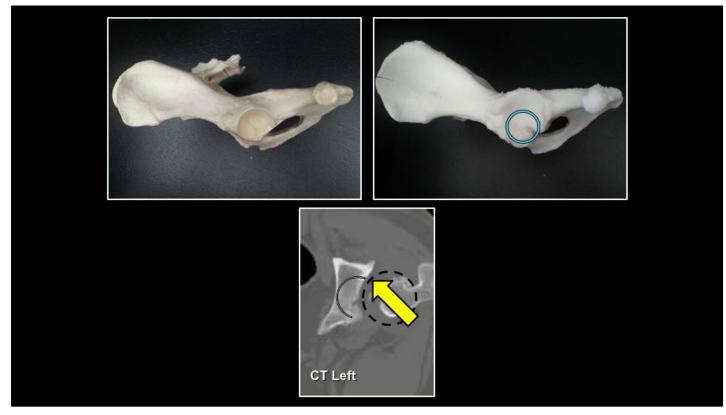


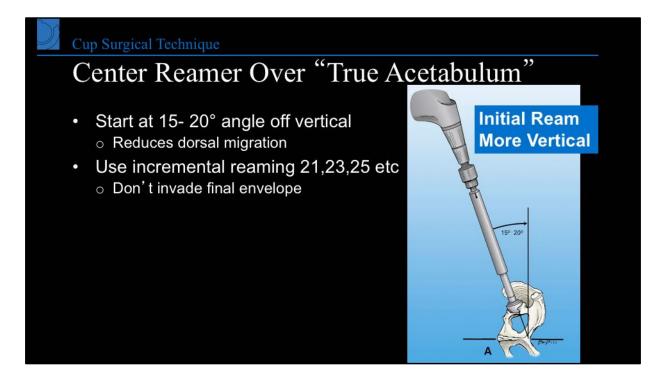


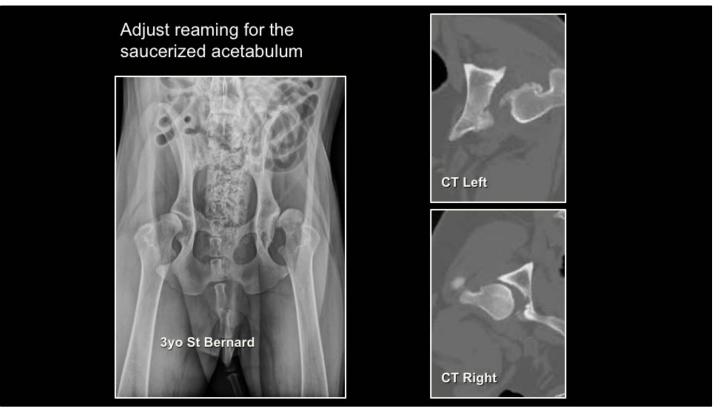


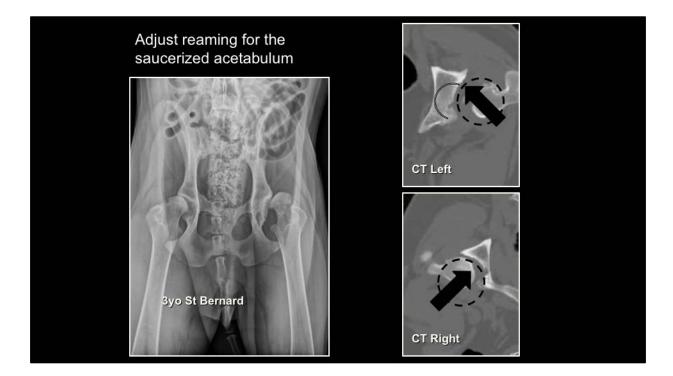
12 weeks post right THR explant



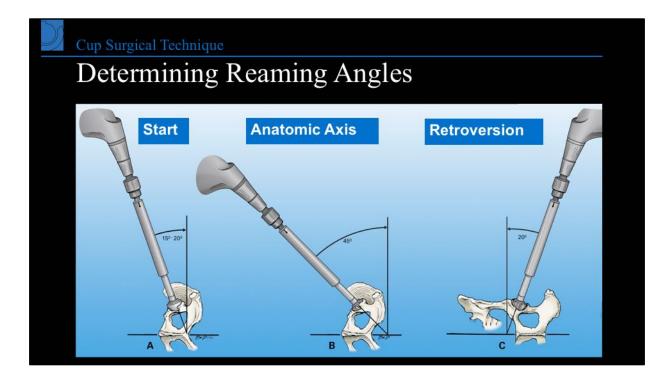


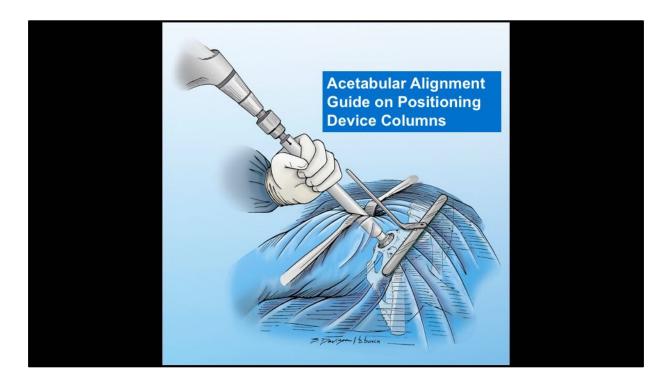


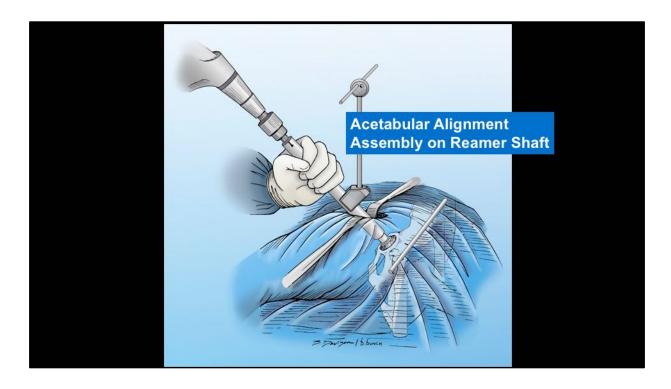




Preserve DAR



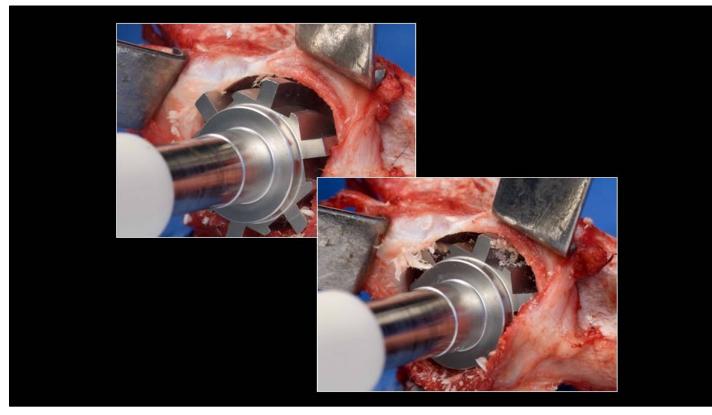


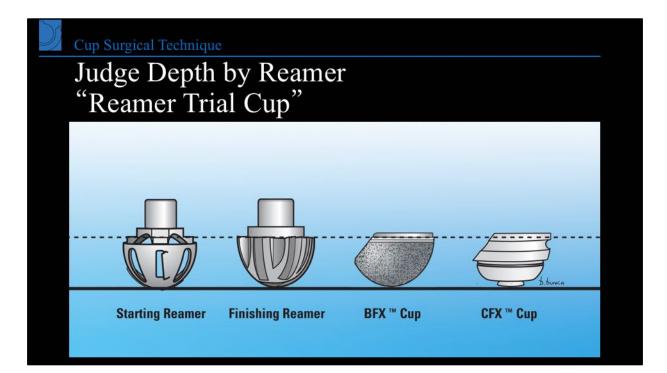


Cup Surgical Technique

Reaming

- Finishing reamer
 - To establish the diameter & create press-fit
 - Finishing reamers only cut on the sides
 - $_{\odot}~$ Same size as final BFX cup size
 - 1mm larger than CFX cup (cement mantle)

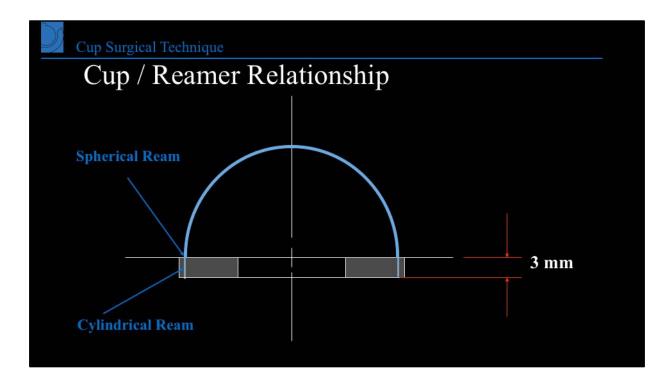


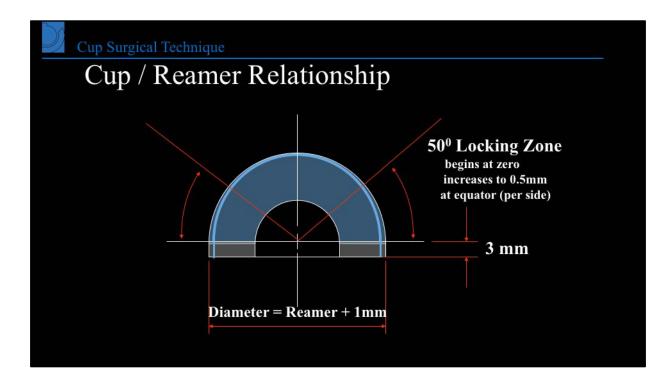


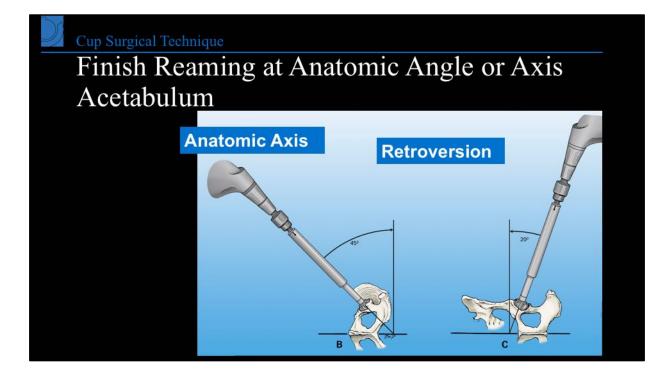
Cup Surgical Technique General Principles

The BFX cup is NOT spherical

- (last 3mm cylindrical)
- Therefore
- Orientation of reaming defines the orientation of the cup
- All reaming should be aligned
 - $\circ~$ One exception: very initial reaming



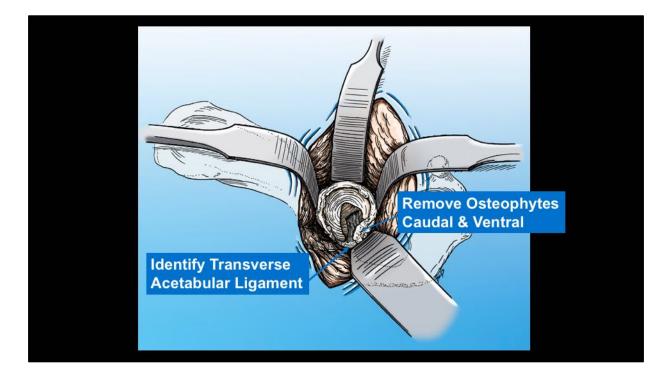




Cup Surgical Technique

Before cup insertion

- · Place plastic trial cup to
- assess acetabular boundaries
- Remove ventral osteophytes
- Remove or retract ventral joint capsule
 Can be pulled in
- Keep cup oriented ventrally on initial insertion





Cup Surgical Technique

Remove ventral osteophytes

- Bone in this region will interfere
- with cup positioning







