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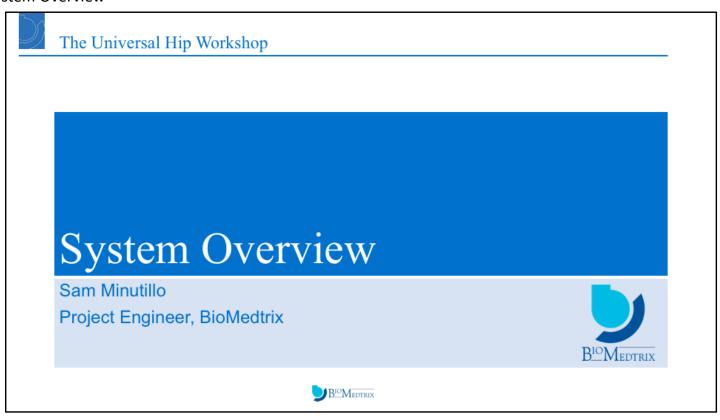


The Universal Hip Workshop

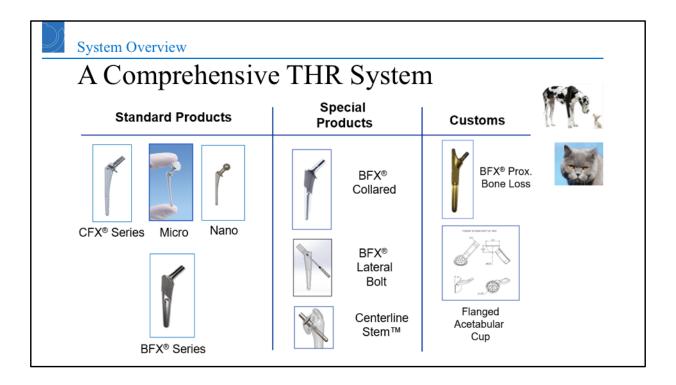
- System Overview
- Patient Evaluation
- Pre-op Templating
- Surgical Approach
- Augmented Fixation
- Lab: Femoral Preparation
- Stem Surgical Technique
- Cup Surgical Technique

- · Lab: Acetabular Preparation
- Bone Cement
- Lab: BFX & CFX THR
- Post-op Radiographic Assessment
- · CFX/BFX Decision Making
- Complications and Revision Options
- · Product Certification

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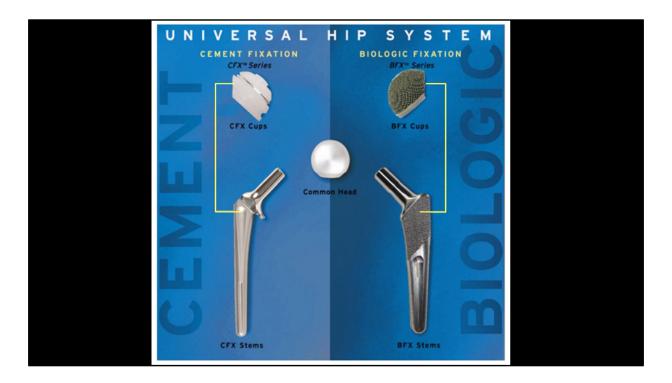


The Universal Hip System is a comprehensive implant system addressing diversity in patients and their multiple indications requiring a THR.

Composed of **standard** product lines which address approx. 80% of the cases. **Special** products addressing the other 20% of indications and provide the design evolution of the system keeping it contemporary with technology and clinical techniques.

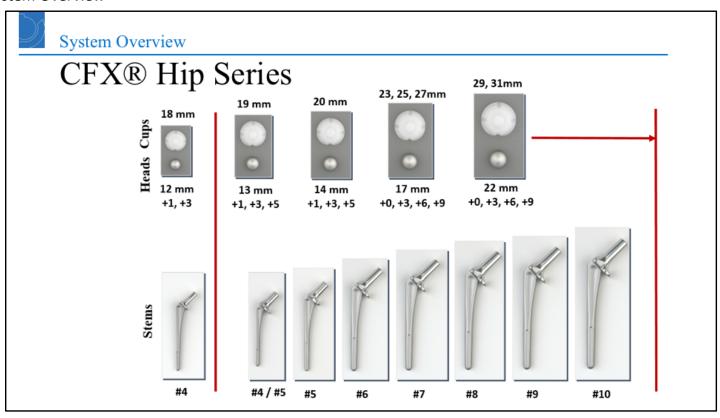
And also **customs**. There are always cases which fall out of the norm through deformities or trauma which can only be meet with a custom implant.

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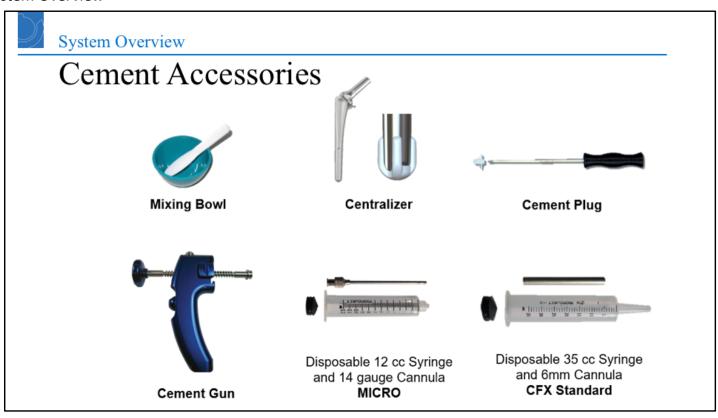


- -The workshop today will focus on the CFX and BFX Series of implants.
- -CFX hip series, for cemented applications and the BFX hip series, for cementless hip applications.
- -Both systems share a common surgical procedure and
- -Also share a common 17mm head.
- -This provides interchangeability between systems so BFX components can be used with CFX components expanding the clinical indications for the system.

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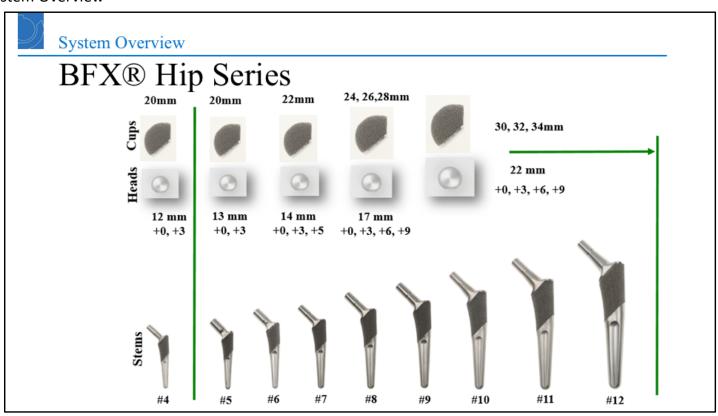


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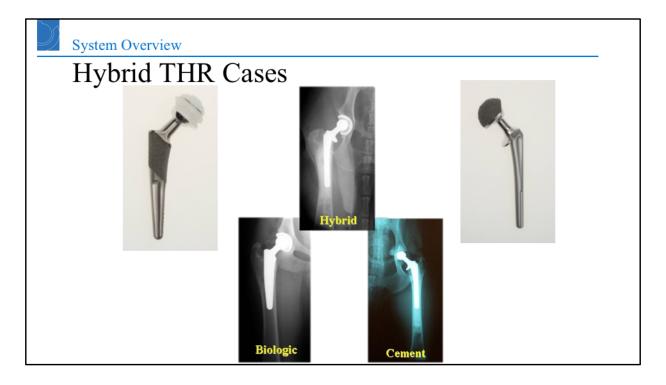


- BioMedtrix has veterinary bone cement which has over 15 years clinical experience in humans.
- The most widely used cement in humans in Simplex bone cement mfg'd by Stryker.
- This vet bone cement has similar strength properties as Simplex. Mixing and handling is slightly different with our cement having a longer liquid phase.
- We will be using this in the lab on Sunday.

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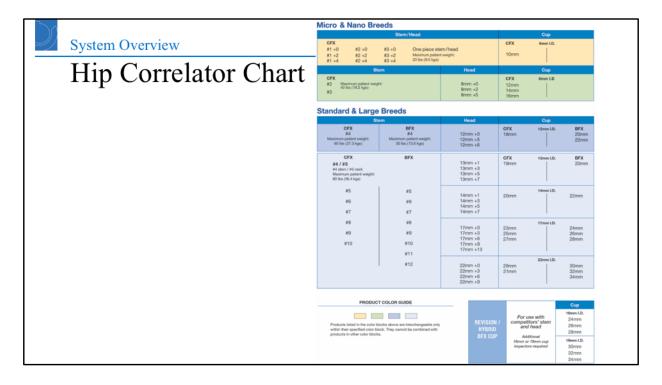
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- -Besides matched implant combinations within each system, it is possible to have hybrid fixation.
- -Hybrid fixation is a combination of a cemented application on one side of the joint and cementless on the other.
- -For example, there are clinical indications which are best addressed with a cemented stem and press fit cup.
- -We will discuss this further, but some of the larger breeds (Great Danes) and other breeds like German Shepherds do not have femoral canal geometry adequate to achieve a press fit or the quality of the cancellous bone is not adequate to support a cementless stem. In those cases, the more appropriate clinical option is hybrid fixation

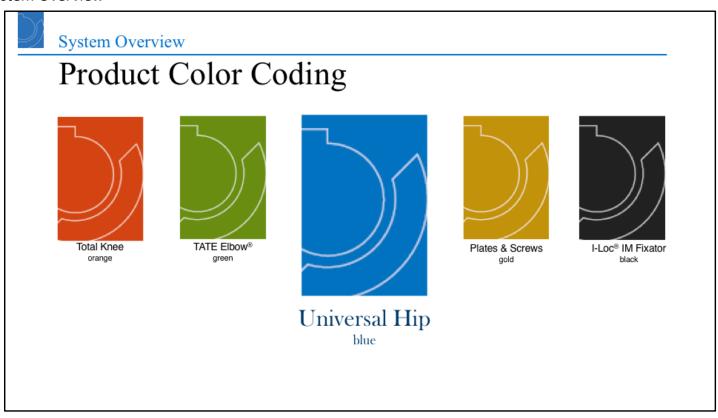
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| Cementless stem. In those cases, the more appropriate clinical option is hybrid fixation.

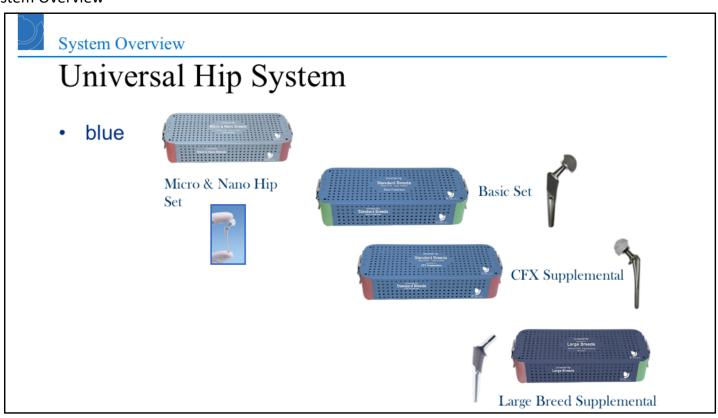


- There are many implant choices with these systems. A correlator chart was developed as a quick reference to determining available implant combinations.
- If a particular stem has been sized for a patient's femur, then that size can be referenced and all implant combinations are shown for the acetabular side.
- -The same holds true for sizing the acetabular cup first.
- -This chart is provided as part of the welcome package sent to all workshop registrants.

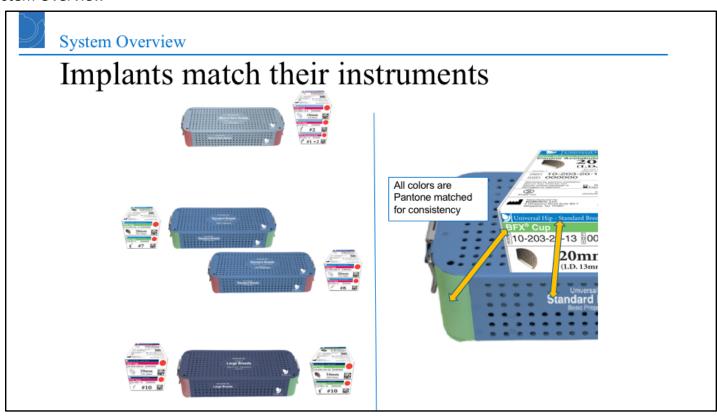
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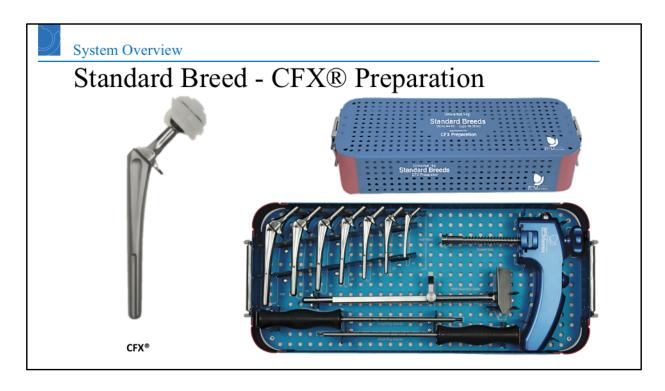


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- -Universal Instrument Set supports one surgical technique for both cemented and cementless systems
- -Case #1 provides both the femoral and acetabular prep's –common prep's for both systems
- -With the BFX System, the preparation is complete. In a cemented application, move to Case #2.

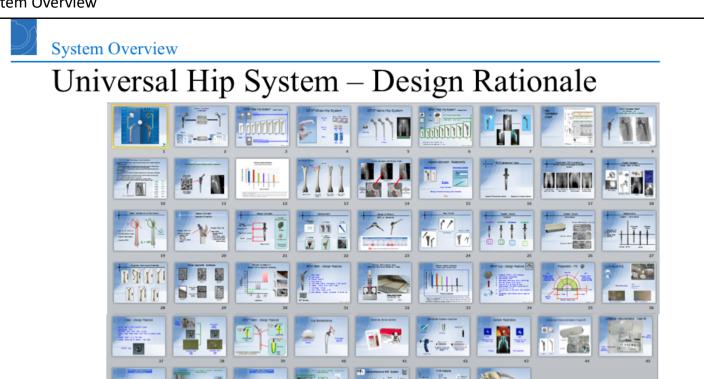
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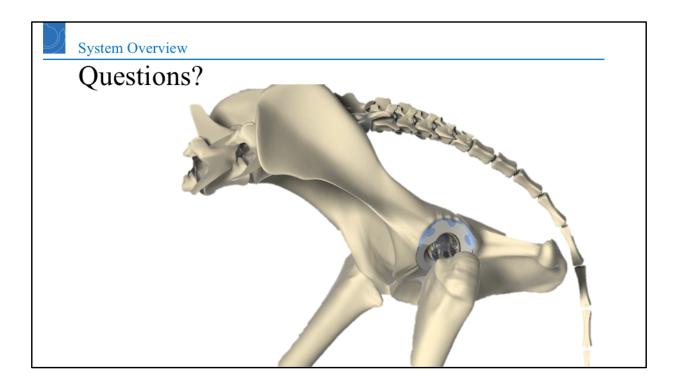


- -Ancillary instruments are provided to support the continued preparation for the cemented implants.
- -Also, the bottom tray provides extended sizes for the BFX System.

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Flash Drive Dropbox





On the flash drive we provided there is a Univ Hip design rational and overview presentation. There are about 50 slides with notes which provides technical information on the manufacturing technologies which we use to make these implants along with explanations of engineering principles used in these designs.

If you are interested you can review this and contact us with any questions. If you have reviewed it and have questions, then feel free to ask us any time during the course.

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