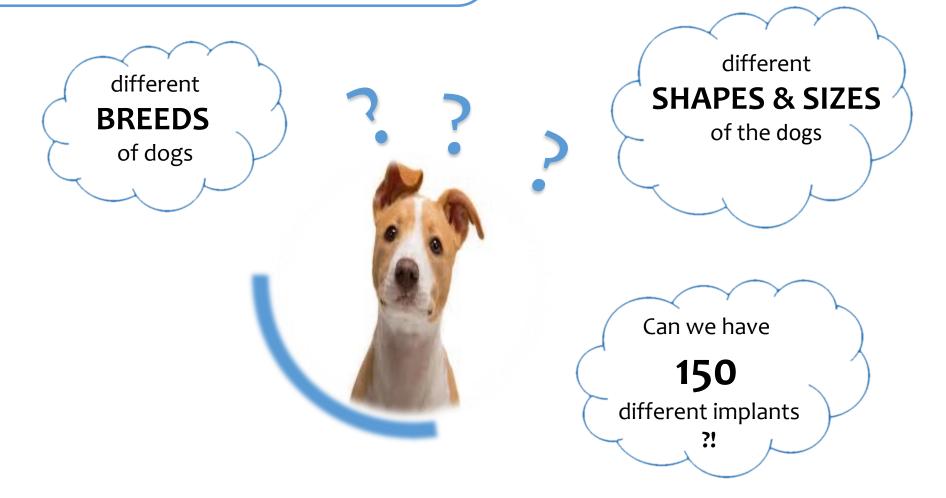
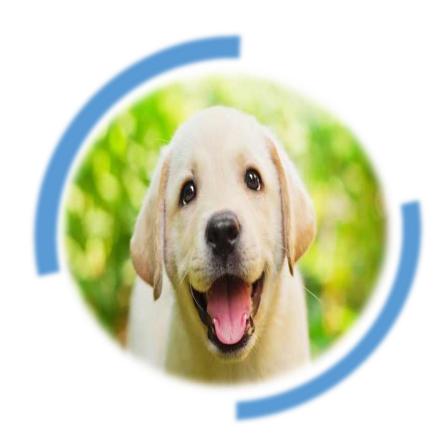
Custom Made Implant and Surgical Guides for Dog Knee Replacement







Patient Specific Templates

(Custom Made Cutting Guide)

&

Patient Specific Implants is Optimal Solution

Anatomy **Skeleton**of dog



Dog **KNEE**anatomy

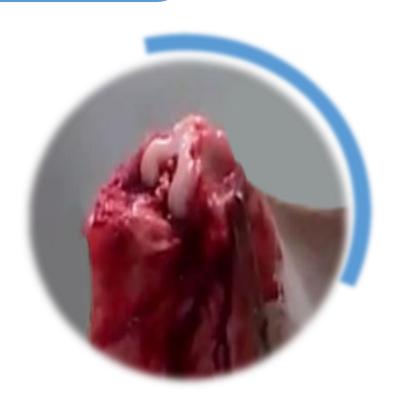


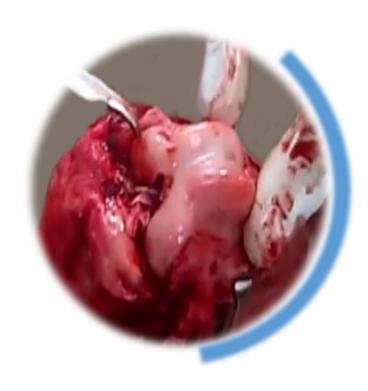












Anatomy of Dog Stifle (Knee)



Steps for Appling PST & PSI

Step

1

apply a CT scan for dog knee in a certain protocol

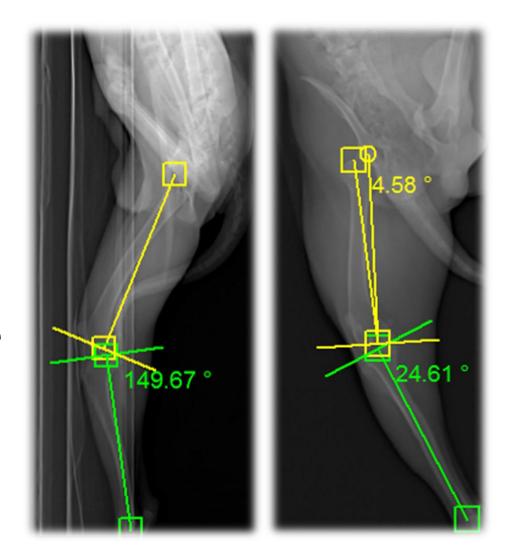
Steps for Appling PST & PSI

Step

2

CT scans is imported to a special software system, where the planning of surgery is done.

DEFORMITY measures applied in advanced based on AP and ML x-ray



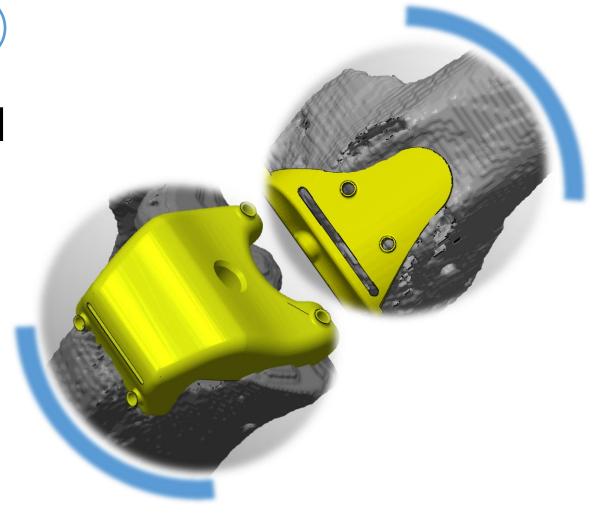
Steps for Appling PST & PSI

Step

3

Reconstruct of DICOM to 3D Model.

Make a full surgery planning on software





Steps for Appling PST & PSI

Step

4

PST & PSI are produced to replace conventional instrument & implants

Case Details:

Sex: Male

Age: 1 year

CT scan date: Feb 15, 2015

Case announced: Feb 15, 2015

Total Knee Replacement

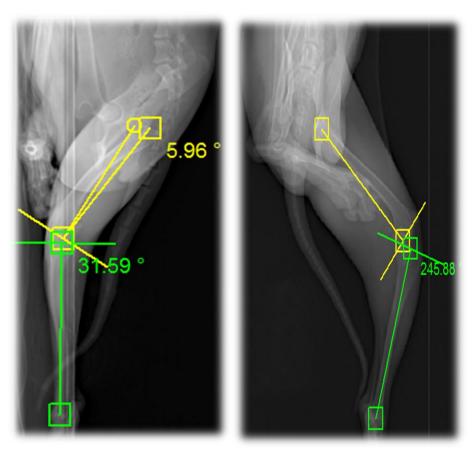




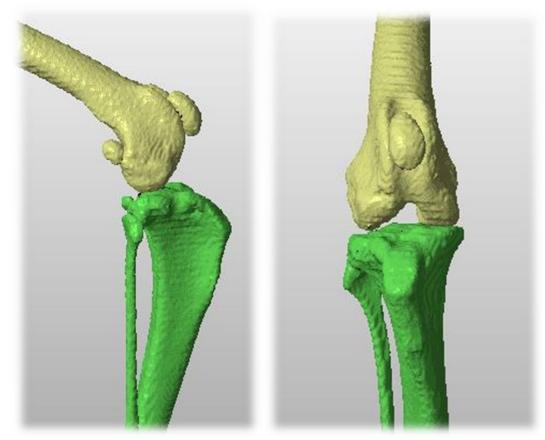
AP side of CT



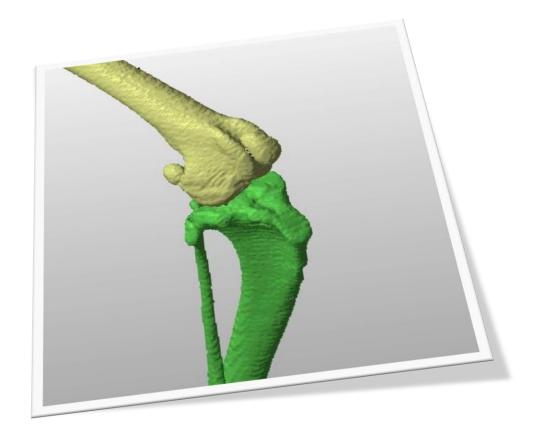
ML side of CT

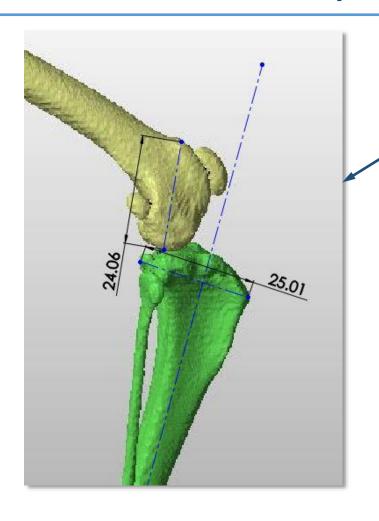


Preoperative CT scan

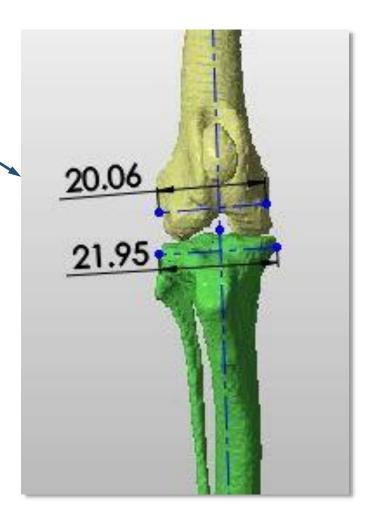


AP and ML views of femur and tibia constructed from DICOM





Main Dimensions in both AP and ML sides



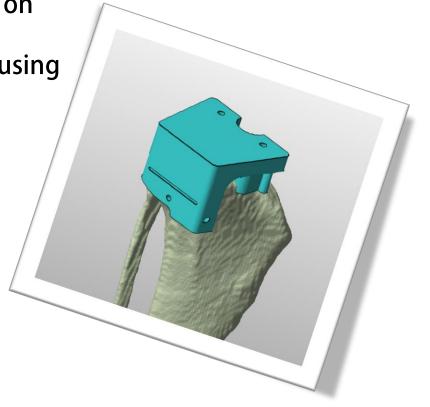


Mount the Tibial Cutting Guide (PST) on tibia plateau.

Fit with maximum bone surface area using of 4 holes.



Distal cut was made using tibial PST.



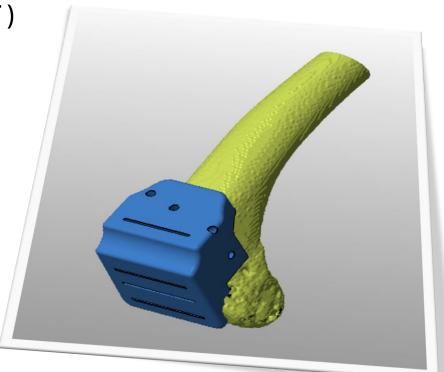


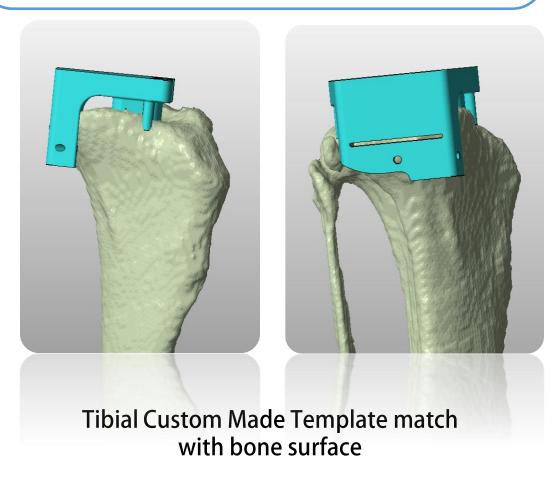
Mount the Femoral Cutting Guide (PST) on medial femur side.

Fit with maximum bone surface area using of 4 holes (at least 2 facial holes with inclined one should be use)

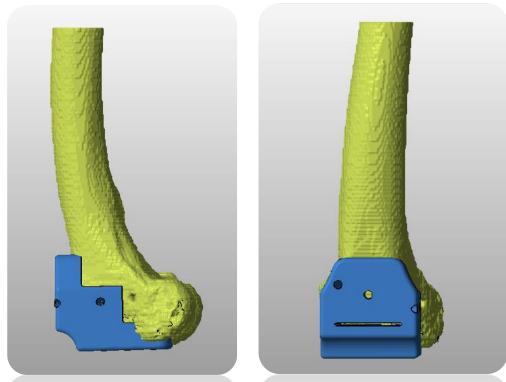


Distal cut is available with template, other 2 cuts could make by conventional femoral cutting block.

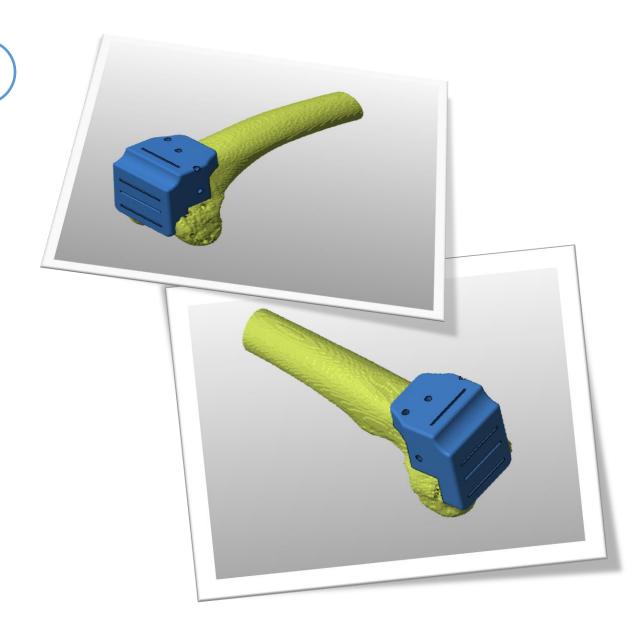








Femoral Custom Made Template match with bone surface







Patient Specific Implant (PSI)

Tibial and Femoral Implants





INTRA-OPERATIVE PST & PSI

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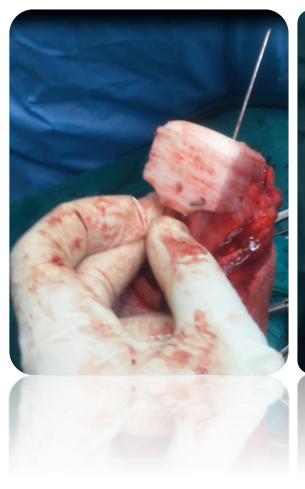




INTRA-OPERATIVE PST & PSI

Tibial Side

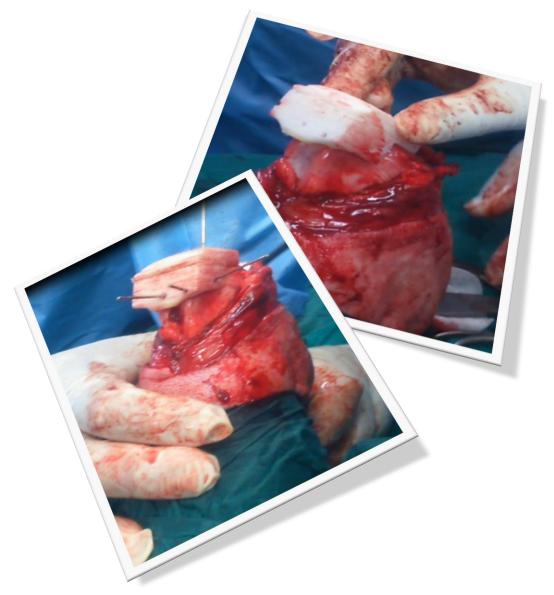


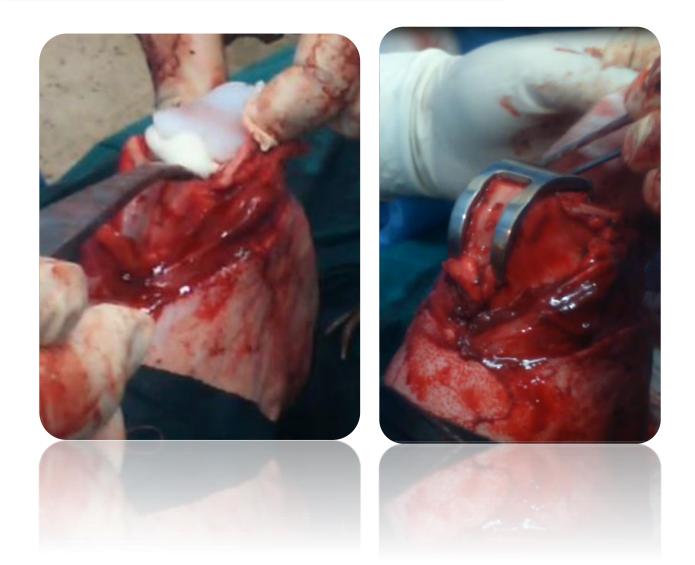




INTRA-OPERATIVE PST & PSI

Femoral Side





INTRA-OPERATIVE PST & PSI

Tibial and Femoral Implants