TIBIAL PLATEAU LEVELING OSTEOTOMY (TPLO)
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* Our instruments are carefully examined by our surgical instrument experts.
* No instrument is shipped unless it meets our standards.
* Tungsten carbide instruments are included except for jaw inserts and Gold handles by a separate warranty.

Tibial Plateau Leveling Osteotomy

The TPLO surgery techniques result in:

- Rapid recovery
- Better range of motion of the joint
- Less arthritis
- Return to athletic or working activity

TPLO surgery involves removing the torn ends of the cruciate ligament and examining the medial and lateral meniscus cartilages. The meniscus is concurrently torn in about 40 to 50% of dogs that have a torn cruciate ligament. When the femur bone shifts backwards, the femur bone pinches the medial meniscus, causing it to tear from the back part of the stifle joint and flip forward. A torn meniscus will make a patient much more painful than a cranial cruciate ligament tear alone. As the patient walks, the torn part of the meniscus may flip back and forth resulting in an audible popping or clicking noise.

An attempt is made to save as much of the normal meniscus as possible and only trim out the damaged portions of this structure. This is called a partial meniscectomy. Which is believed to reduce arthritis.
TPLO PROCEDURE

SOFT TISSUE APPROACH
MEDIAL MENISCUS RELEASE

OUTLINE FOR THE ORTHOPEDIC PORTION OF THE TPLO:
1st step – PROXIMAL “REFERENCE” DRILL BIT PLACEMENT
2nd step – MEASURE THE BLADE SIZE
3rd step – ESTABLISH THE DRILL GUIDE STARTING POSITION
4th step - ESTABLISH THE DESIRED AMOUNT OF ROTATION
5th step – OSTEOTOMY
7th step – DRILL FOUR OF THE HOLES TO FASTEN THE PLATE
8th step – REMOVE THE DRILL GUIDE AND FINISH FASTENING THE BONE PLATE
CLOSE THE SOFT TISSUE

1st step – PROXIMAL “REFERENCE” DRILL BIT PLACEMENT

• Locate the joint space on the medial side with a 1 ½” 22ga. Needle. Walk the needle up the tibia following the medial collateral ligament until the needle drops into the joint space between the femur and the tibia.
• Locate the joint space on the lateral side with a 1 ½” 22ga. Needle. Walk the needle up the tibia directly across from the needle on the medial side.
• Drill a hole through the proximal tibia with a 7/64” drill bit. Start at the cranial edge of the medial collateral about 6 mm distal from the needle on the medial side. Drill through the proximal tibia taking care to stay as perpendicular to the sagittal plane of the tibia as possible. Aim the drill bit to exit the tibia on the lateral side about 6mm distal to the needle on the lateral side.

2nd step – MEASURE THE BLADE SIZE

• With the proximal “REFERENCE” drill bit in place, slide a mandrel and blade onto the drill bit. Try different blade sizes. Choose the blade that fits just caudal to the patellar ligament at its attachment to the tibia.
• Manually make a mark in the tibia with the chosen saw blade.

3rd step – ESTABLISH THE DRILL GUIDE STARTING POSITION

• Place on end of the drill guide onto the proximal “REFERENCE” drill bit
• Using the farthest hole on the other end of the drill guide, drill a hole through the tibia centered on the bone cranial to caudal.

4th step - ESTABLISH THE DESIRED AMOUNT OF ROTATION

• With the drill guide on the proximal “REFERENCE” drill bit, rotate the drill guide forward (cranial)
• Place the starting point hole on the angle gauge (either the straight version or the round version) on a short drill bit at the distal end of the drill guide

5th step – OSTEOTOMY

• Choose the desired tibial plateau angle correction hole and place that hole on a short drill bit placed in the distal hole that was drilled in the tibia in the previous step

NOTE: THE NUMBERS ON THE ANGLE GAUGE REFERS TO THE TIBIAL PLATEAU ANGLE MEASURED FROM THE PRE-SURGICAL RADIOGRAPH. A 40 CORRECTION HAS ALREADY BEEN INCLUDED.
• Drill a hole in the proximal tibia just distal to the original “REFERENCE” drill bit using the hole in the drill guide that corresponds to the blade size that was chosen in the 2nd step.

NOTE: YOU MAY HAVE TO FLIP THE DRILL GUIDE END FOR END TO GET THE CORRECT HOLE OF THE DRILL GUIDE ORIENTED ON THE PROXIMAL END CLOSE TO THE REFERENCE DRILL BIT.
Tibial Plateau Leveling Osteotomy

5th step – OSTEOTOMY

• Using the saw blade size chosen in the 2nd step. Make the osteotomy of the proximal tibia with the mandrel of the saw blade on the on the proximal "REFERENCE" drill using the drill bit as a guide. Push the drill bit through the tibia as the saw blade cuts through the bone.

6th step – ROTATE THE PROXIMAL SEGMENT

• Place drill bits in the two holes in the proximal segment.
• Place the plate on the drill bit that is close to the "REFERENCE" drill bit NOT ON THE "REFERENCE" DRILL BIT ITSELF
• Place the drill guide back onto these two drill bits in the proximal segment
• Use the drill guide as a handle rotate the proximal segment until the distal hole in the drill guide lines up with the distal hole in the tibia
• Place a drill bit through the distal drill guide hole and into the distal tibial hole

NOTE: IF THE PLATE NEEDS TO BE RESHAPED REMOVE EVERYTHING, RESHAPE THE PLATE AND REPEAT THE 6TH STEP

7th step – DRILL FOUR OF THE HOLES TO FASTEN THE PLATE

• The drill guide will act as a "jig" to hold the proximal segment in the desired orientation while the plate is fastened
• Use a point to point bone holding forceps to hold the proximal segment tight to the tibial crest.
• Drill the two holes in the tibia at the distal ends of the two compression slots of the bone plate
• Place screws into the two hole to hold the plate in place. DO NOT TIGHTEN THESE SCREWS YET.
• Use the locking screw drill guide and drill the two holes in the proximal segment of the tibia for the two locking screws used on the proximal portion of the bone plate
• Fasten the proximal portion of the bone plate to the proximal segment of the tibia using the two locking screws

8th step – REMOVE THE DRILL-GUIDE AND FINISH FASTENING THE BONE PLATE

• Remove the drill guide
• Tighten the two screws in the compression slots in the “stem” of the plate to compress the proximal segment of the tibia and the larger distal segment of the tibia together
• Place and tighten the last screw on the proximal portion of the plate, (using the hole that drill bit that was holding the drill guide was in)
• Use the locking screw drill guide to drill the final hole at the center of the “stem” of the bone screw.
• Place and tighten the final screw
• Retighten all of the screws CLOSE THE SOFT TISSUE
Tibial Plateau Leveling Osteotomy

TPLO Cortex Screw, Self Tapping

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Tibial Plateau Leveling Osteotomy

GV102-020-10 TPLO 2.0 mm Cancellous Screws - Fully Threaded
10mm Hex Head

GV102-020-14 TPLO 2.0 mm Cancellous Screws - Fully Threaded
14mm Hex Head

GV102-020-12 TPLO 2.0 mm Cancellous Screws - Fully Threaded
12mm Hex Head

GV102-020-16 TPLO 2.0 mm Cancellous Screws - Fully Threaded
16mm Hex Head

GV100-024-24 TPLO Cortex Screw 2.4mm, 24mm Length, Self-Tapping, Hex Head

GV100-024-22 TPLO Cortex Screw 2.4mm, 22mm Length, Self-Tapping, Hex Head

GV100-024-16 TPLO Cortex Screw 2.4mm, 16mm Length, Self-Tapping, Hex Head

GV100-024-18 TPLO Cortex Screw 2.4mm, 18mm Length, Self-Tapping, Hex Head

GV100-024-14 TPLO Cortex Screw 2.4mm, 14mm Length, Self-Tapping, Hex Head

GV100-024-10 TPLO Cortex Screw 2.4mm, 10mm Length, Self-Tapping, Hex Head

GV100-024-08 TPLO Cortex Screw 2.4mm, 8mm Length, Self-Tapping, Hex Head

GV100-024-06 TPLO Cortex Screw 2.4mm, 6mm Length, Self-Tapping, Hex Head

GV102-027-24 TPLO Cortex Screw 2.7mm, 24mm Length, Self-Tapping, Hex Head

GV102-027-22 TPLO Cortex Screw 2.7mm, 22mm Length, Self-Tapping, Hex Head

GV102-027-20 TPLO Cortex Screw 2.7mm, 20mm Length, Self-Tapping, Hex Head

GV102-027-18 TPLO Cortex Screw 2.7mm, 18mm Length, Self-Tapping, Hex Head

GV102-027-16 TPLO Cortex Screw 2.7mm, 16mm Length, Self-Tapping, Hex Head

GV102-027-14 TPLO Cortex Screw 2.7mm, 14mm Length, Self-Tapping, Hex Head

GV102-027-12 TPLO Cortex Screw 2.7mm, 12mm Length, Self-Tapping, Hex Head

GV102-027-10 TPLO Cortex Screw 2.7mm, 10mm Length, Self-Tapping, Hex Head

GV102-027-08 TPLO Cortex Screw 2.7mm, 8mm Length, Self-Tapping, Hex Head

GV102-027-06 TPLO Cortex Screw 2.7mm, 6mm Length, Self-Tapping, Hex Head

GV101-027-30 TPLO Cortex Screw 2.7mm, 30mm Length, Hex Head

GV101-027-28 TPLO Cortex Screw 2.7mm, 28mm Length, Hex Head

GV101-027-26 TPLO Cortex Screw 2.7mm, 26mm Length, Hex Head

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GV101-027-22 TPLO Cortex Screw 2.7mm, 22mm Length, Hex Head

GV101-027-20 TPLO Cortex Screw 2.7mm, 20mm Length, Hex Head

GV101-027-18 TPLO Cortex Screw 2.7mm, 18mm Length, Hex Head

GV101-027-16 TPLO Cortex Screw 2.7mm, 16mm Length, Hex Head

GV101-027-14 TPLO Cortex Screw 2.7mm, 14mm Length, Self-Tapping, Hex Head

GV101-027-12 TPLO Cortex Screw 2.7mm, 12mm Length, Self-Tapping, Hex Head

GV101-027-10 TPLO Cortex Screw 2.7mm, 10mm Length, Self-Tapping, Hex Head

GV101-027-08 TPLO Cortex Screw 2.7mm, 8mm Length, Self-Tapping, Hex Head

GV101-027-06 TPLO Cortex Screw 2.7mm, 6mm Length, Self-Tapping, Hex Head
# Tibial Plateau Leveling Osteotomy

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Tibial Plateau Leveling Osteotomy

**TPLO Cortex Screw, Self Tapping**

- **GV102-035-10**: 3.5mm, 10mm Length, Hex Head  
- **GV102-035-12**: 3.5mm, 12mm Length, Hex Head  
- **GV102-035-14**: 3.5mm, 14mm Length, Hex Head  
- **GV102-035-16**: 3.5mm, 16mm Length, Hex Head

- **GV102-035-26**: 3.5mm, 26mm Length, Hex Head  
- **GV102-035-28**: 3.5mm, 28mm Length, Hex Head  
- **GV102-035-30**: 3.5mm, 30mm Length, Hex Head  
- **GV102-035-32**: 3.5mm, 32mm Length, Hex Head  
- **GV102-035-34**: 3.5mm, 34mm Length, Hex Head  
- **GV102-035-36**: 3.5mm, 36mm Length, Hex Head  
- **GV102-035-38**: 3.5mm, 38mm Length, Hex Head  
- **GV102-035-40**: 3.5mm, 40mm Length, Hex Head  
- **GV102-035-42**: 3.5mm, 42mm Length, Hex Head  
- **GV102-035-44**: 3.5mm, 44mm Length, Hex Head  
- **GV102-035-46**: 3.5mm, 46mm Length, Hex Head  
- **GV102-035-48**: 3.5mm, 48mm Length, Hex Head

**TPLO Cancellous Screws**

- **GV101-040-10**: 4.0mm, Fully Threaded, 10mm Length, Hex Head  
- **GV101-040-12**: 4.0mm, Fully Threaded, 12mm Length, Hex Head  
- **GV101-040-14**: 4.0mm, Fully Threaded, 14mm Length, Hex Head  
- **GV101-040-16**: 4.0mm, Fully Threaded, 16mm Length, Hex Head  
- **GV101-040-18**: 4.0mm, Fully Threaded, 18mm Length, Hex Head  
- **GV101-040-20**: 4.0mm, Fully Threaded, 20mm Length, Hex Head  
- **GV101-040-22**: 4.0mm, Fully Threaded, 22mm Length, Hex Head  
- **GV101-040-24**: 4.0mm, Fully Threaded, 24mm Length, Hex Head  
- **GV101-040-26**: 4.0mm, Fully Threaded, 26mm Length, Hex Head  
- **GV101-040-28**: 4.0mm, Fully Threaded, 28mm Length, Hex Head  
- **GV101-040-30**: 4.0mm, Fully Threaded, 30mm Length, Hex Head  
- **GV101-040-32**: 4.0mm, Fully Threaded, 32mm Length, Hex Head  
- **GV101-040-34**: 4.0mm, Fully Threaded, 34mm Length, Hex Head  
- **GV101-040-36**: 4.0mm, Fully Threaded, 36mm Length, Hex Head  
- **GV101-040-38**: 4.0mm, Fully Threaded, 38mm Length, Hex Head  
- **GV101-040-40**: 4.0mm, Fully Threaded, 40mm Length, Hex Head

- **GV101-040-42**: 4.0mm, Fully Threaded, 42mm Length, Hex Head  
- **GV101-040-44**: 4.0mm, Fully Threaded, 44mm Length, Hex Head  
- **GV101-040-45**: 4.0mm, Fully Threaded, 45mm Length, Hex Head  
- **GV101-040-46**: 4.0mm, Fully Threaded, 46mm Length, Hex Head  
- **GV101-040-48**: 4.0mm, Fully Threaded, 48mm Length, Hex Head  
- **GV101-040-50**: 4.0mm, Fully Threaded, 50mm Length, Hex Head  
- **GV101-040-52**: 4.0mm, Fully Threaded, 52mm Length, Hex Head  
- **GV101-040-55**: 4.0mm, Fully Threaded, 55mm Length, Hex Head  
- **GV101-040-60**: 4.0mm, Fully Threaded, 60mm Length, Hex Head
Tibial Plateau Leveling Osteotomy

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 12mm Length,
Hex Head
- GV102-040-12

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 14mm Length,
Hex Head
- GV102-040-14

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 16mm Length,
Hex Head
- GV102-040-16

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 18mm Length,
Hex Head
- GV102-040-18

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 20mm Length,
Hex Head
- GV102-040-20

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 22mm Length,
Hex Head
- GV102-040-22

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 24mm Length,
Hex Head
- GV102-040-24

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 26mm Length,
Hex Head
- GV102-040-26

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 28mm Length,
Hex Head
- GV102-040-28

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 30mm Length,
Hex Head
- GV102-040-30

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 32mm Length,
Hex Head
- GV102-040-32

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 34mm Length,
Hex Head
- GV102-040-34

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 36mm Length,
Hex Head
- GV102-040-36

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 38mm Length,
Hex Head
- GV102-040-38

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 40mm Length,
Hex Head
- GV102-040-40

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 42mm Length,
Hex Head
- GV102-040-42

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 44mm Length,
Hex Head
- GV102-040-44

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 46mm Length,
Hex Head
- GV102-040-46

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 48mm Length,
Hex Head
- GV102-040-48

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 50mm Length,
Hex Head
- GV102-040-50

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 52mm Length,
Hex Head
- GV102-040-52

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 55mm Length,
Hex Head
- GV102-040-55

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 60mm Length,
Hex Head
- GV102-040-60

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 65mm Length,
Hex Head
- GV102-040-65

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 70mm Length,
Hex Head
- GV102-040-70

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 75mm Length,
Hex Head
- GV102-040-75

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 80mm Length,
Hex Head
- GV102-040-80

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 85mm Length,
Hex Head
- GV102-040-85

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 90mm Length,
Hex Head
- GV102-040-90

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 100mm Length,
Hex Head
- GV102-040-100

TPLO 4.0 mm Cancellous Screws -
Partially Threaded 110mm Length,
Hex Head
- GV102-040-110

TPLO Cortical Screw 4.5mm
L= 18mm Hex Head
- GV101-045-18

TPLO Cortical Screw 4.5mm
L= 20mm Hex Head
- GV101-045-20

TPLO Cortical Screw 4.5mm
L= 22mm Hex Head
- GV101-045-22

TPLO Cortical Screw 4.5mm
L= 24mm Hex Head
- GV101-045-24

TPLO Cortical Screw 4.5mm
L= 26mm Hex Head
- GV101-045-26

TPLO Cortical Screw 4.5mm
L= 28mm Hex Head
- GV101-045-28

TPLO Cortical Screw 4.5mm
L= 30mm Hex Head
- GV101-045-30

TPLO Cortical Screw 4.5mm
L= 32mm Hex Head
- GV101-045-32

TPLO Cortical Screw 4.5mm
L= 34mm Hex Head
- GV101-045-34

TPLO Cortical Screw 4.5mm
L= 36mm Hex Head
- GV101-045-36

TPLO Cortical Screw 4.5mm
L= 38mm Hex Head
- GV101-045-38

TPLO Cortical Screw 4.5mm
L= 40mm Hex Head
- GV101-045-40

TPLO Cortical Screw 4.5mm
L= 42mm Hex Head
- GV101-045-42

TPLO Cortical Screw 4.5mm
L= 44mm Hex Head
- GV101-045-44

TPLO Cortical Screw 4.5mm
L= 46mm Hex Head
- GV101-045-46

TPLO Cortical Screw 4.5mm
L= 48mm Hex Head
- GV101-045-48

TPLO Cortical Screw 4.5mm
L= 52mm Hex Head
- GV101-045-52

TPLO Cortical Screw 4.5mm
L= 50mm Hex Head
- GV101-045-50

TPLO Cortical Screw 4.5mm
L= 56mm Hex Head
- GV101-045-56

TPLO Cortical Screw 4.5mm
L= 60mm Hex Head
- GV101-045-60

TPLO Cortical Screw 4.5mm
L= 66mm Hex Head
- GV101-045-65

TPLO Cortical Screw 4.5mm
L= 70mm Hex Head
- GV101-045-70

TPLO Cortical Screw 4.5mm
L= 75mm Hex Head
- GV101-045-75

TPLO Cortical Screw 4.5mm
L= 80mm Hex Head
- GV101-045-80

TPLO Cortical Screw 4.5mm
L= 85mm Hex Head
- GV101-045-85

TPLO Cortical Screw 4.5mm
L= 90mm Hex Head
- GV101-045-90

TPLO Cortical Screw 4.5mm
L= 100mm Hex Head
- GV101-045-100
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<td>GV100-30</td>
<td>TPLO Saw Blade 30mm</td>
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Tibial Plateau Leveling Osteotomy

**GV200-21**
TPLO Mandrel (Hub Assembly) 15/18mm

**GV200-27**
TPLO Mandrel (Hub Assembly) 21/27mm

**GV200-30**
TPLO Mandrel (Hub Assembly) 24/30mm

**GV300-07-L**
Small T Plate Oblique 3.5mm, 3x4 Hole, 12mm Left

**GV300-07-R**
Small T Plate Oblique 3.5mm, 3x4 Hole, 12mm Right

**GV300-08-L**
Small T Plate Oblique 3.5mm, 3x3 Hole, 11mm Left

**GV300-08-R**
Small T Plate Oblique 3.5mm, 3x3 Hole, 11mm Right

**GV300-09-L**
Small T Plate Oblique 2.7mm, 3x3 Hole, 8mm Left

**GV300-09-R**
Small T Plate Oblique 2.7mm, 3x3 Hole, 8mm Right

**GV300-10**
TPLO Angled Plate 15 Left/Right

Tibial Plateau Leveling Osteotomy

GV700-01 TPLO Drill Guide
Drill hole markings, 21/27, 24/30

GV700-02 TPLO Drill Guide, Drill hole markings 15/18

GV400-02 TPLO Angled Drill Guide

GV500-00 TPLO box for cortical screws 2.4mm

GV500-01 TPLO box for cortical screws 2.7mm

GV500-02 TPLO box for cortical screws 3.5mm