

DIVA

Cage Lominaire Postéro-Latérale

Potero-Lateral Lumbar Cage



Surgical Procedure



NovaSpine

Table of Contents

Instruments Range	4
Indications	5
Osteotomy & Discectomy	5
Implant Size Selection	6
Implant Setting	7

Instruments Range



Straight Bayonet Curette
DLBD115



Osteotome
DLO113



Triangular Bayonet Curette
DLBT112



T Handle
DLM103

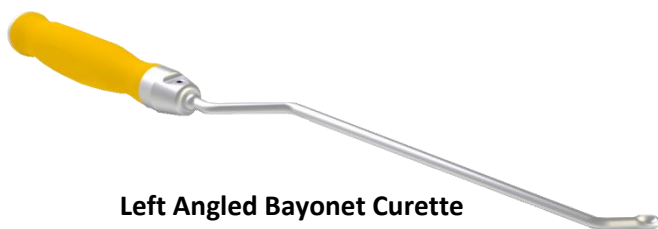


Right Angled Bayonet Curette
DLCAD108



Distractors

S.7 - DLD207
S.8 - DLD208
S.9 - DLD209
S.10 - DLD210
S.11 - DLD211
S.12 - DLD212
S.13 - DLD213
S.14 - DLD214



Left Angled Bayonet Curette
DLCAG109



Reamers

S.8 - DLA308
S.9 - DLA309
S.10 - DLA310
S.11 - DLA311
S.12 - DLA312
S.13 - DLA313
S.14 - DLA314



Front Up Angled Bayonet Curette
DLCAG109



Impactor
DPL401S



Pusher Impactor
DPLP405S

Indications

The DIVA TLIF devices Oblique Cage and Banana Cage are indicated for spinal fusion procedures in skeletally mature patients with lumbar degenerative disc disease. Cages are implanted in lumbar spine between L1 and S1 levels, by a trans-lateral open or minimally invasive approach. The DIVA TLIF devices must be supplemented with a SOCORE posterior pedicle screws fixation.

Osteotomy & Discectomy

An osteotome may be used to prepare the discal space access (*Figure 1*). The facet joints must be carefully removed.



Figure 1

Curettes, Kerrisons and disc rongers may be used to remove bone and disc material and to prepare end-plates for the implantation and fusion (*Figure 2*).

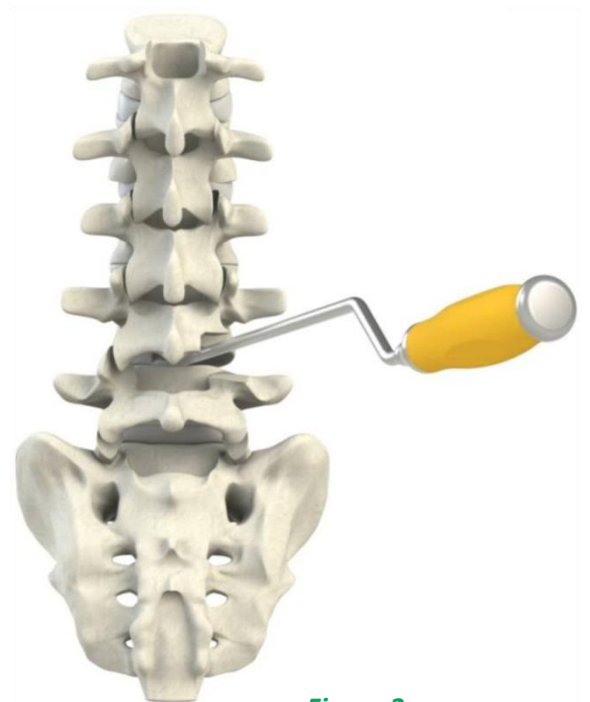


Figure 2

Implant Size Selection

Once the end-plates prepared, distractors, assembled to T handle, are used to define the optimal size of DIVA TLIF device. The smallest distractor size (S.7) is assembled to the T handle and inserted between the vertebrae horizontally (*Figures 3a and 3b*), then rotated to vertical position to test the stability (*Figure 4*). If the distractor is not stable, try the upper sizes until reaching the optimal size. The right-sized distractor must be stable. Once the size is defined, choose the corresponding DIVA TLIF device.



Figure 3a



Figure 3b

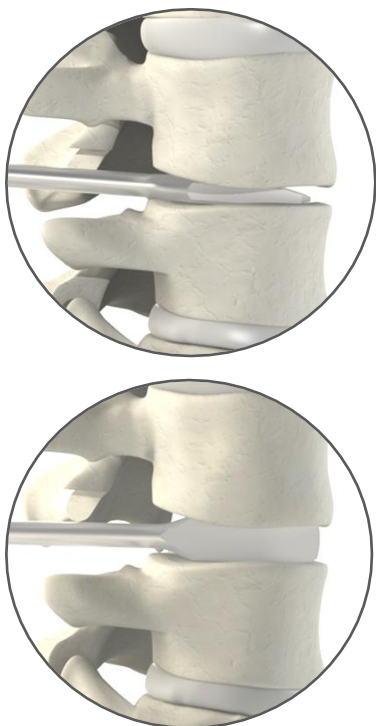


Figure 4

Implant Setting

1- TLIF Oblique Cage

Select the appropriate size of TLIF Oblique Cage corresponding to the last distractor used. Fill the large central hole of the cage with autograft or bone substitute using the implant holder. Assemble the cage to the Impactor by screwing the inner threaded part to the back threaded hole of the cage (*Figure 5*). Additional bone graft can be added in the inter vertebral space before and/or after the cage implantation. Insert the Cage between the vertebrae by Trans-Lateral approach, in oblique direction, until reaching the desired depth (*Figure 6a*). The Impactor is removed by unscrewing the inner part. Optimal positioning is shown in *Figure 6b*. The DIVA TLIF Oblique Cage must be supplemented with a SOCORE posterior pedicle screws fixation (*Figure 7*). A firm compression of the screws is recommended before the final tightening to avoid the mobility and migration of the cage.

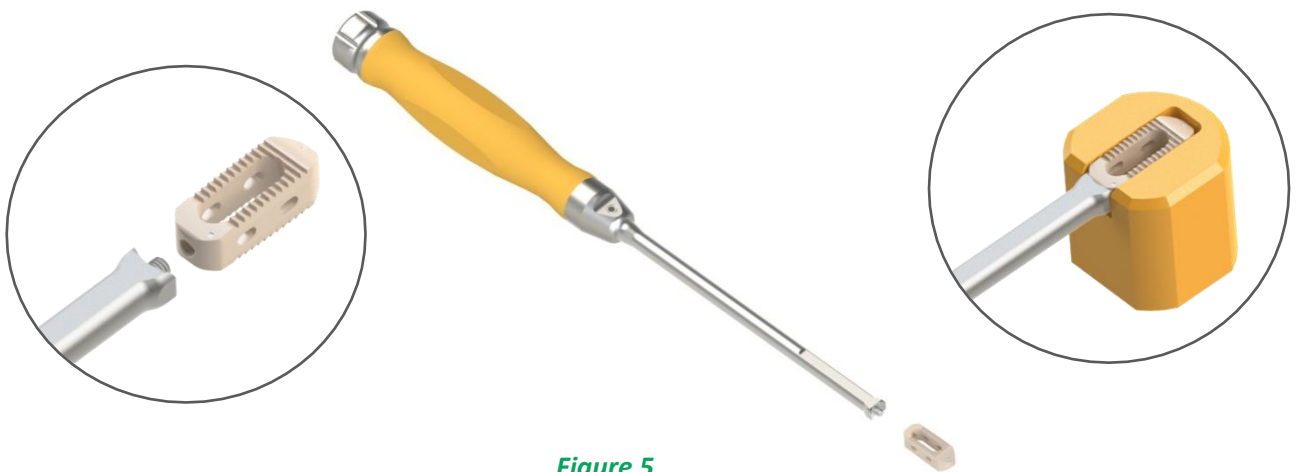


Figure 5

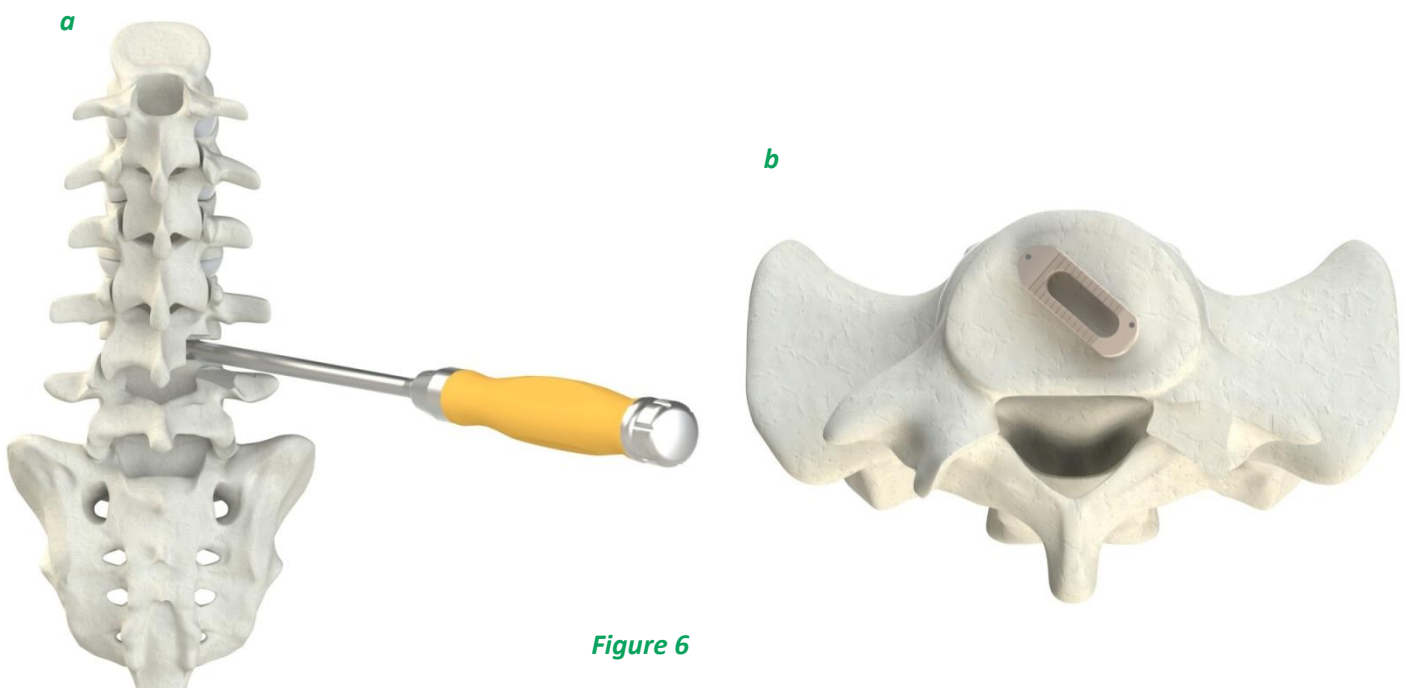


Figure 6

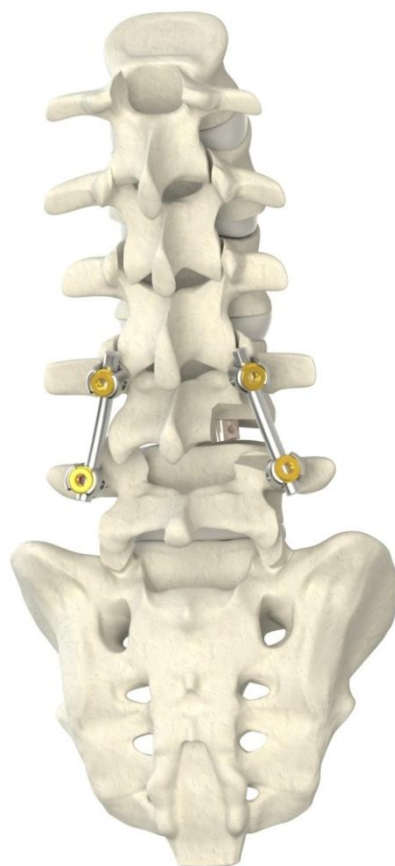


Figure 7

2- TLIF Banana Cage

Select the appropriate size of TLIF Banana Cage corresponding to the last distractor used. Fill the two large holes of the cage with autograft or bone substitute using the cage holder. Assemble the cage to the Impactor by screwing the inner threaded part to the lateral threaded hole of the cage (*Figure 8*). Additional bone graft can be added in the inter vertebral space before and/or after the cage implantation. Insert the Cage between the vertebrae by Trans-Lateral approach, in oblique direction, until reaching the desired depth (*Figure 9*). Once positioned obliquely in the right place (*Figure 10a*), unscrew the inner part of the Impactor and push the TLIF Banana Cage by hammering on the impactor. The cage turns spontaneously (*Figure 10b*) and takes the correct horizontal position (*Figure 10c*). The optimal position is the anterior third of the vertebral body in order to restore the lordosis.

In case the cage is in posterior position (*Figure 11a*), use the Pusher Impactor to move the DIVA TLIF Banana Cage towards the anterior area until reaching optimal position shown in *Figure 11b*.

The Cage must be supplemented with a SOCORE posterior pedicle screws fixation (*Figure 12*). A firm compression of the screws is recommended before the final tightening to avoid the mobility and migration of the cage.



Figure 8

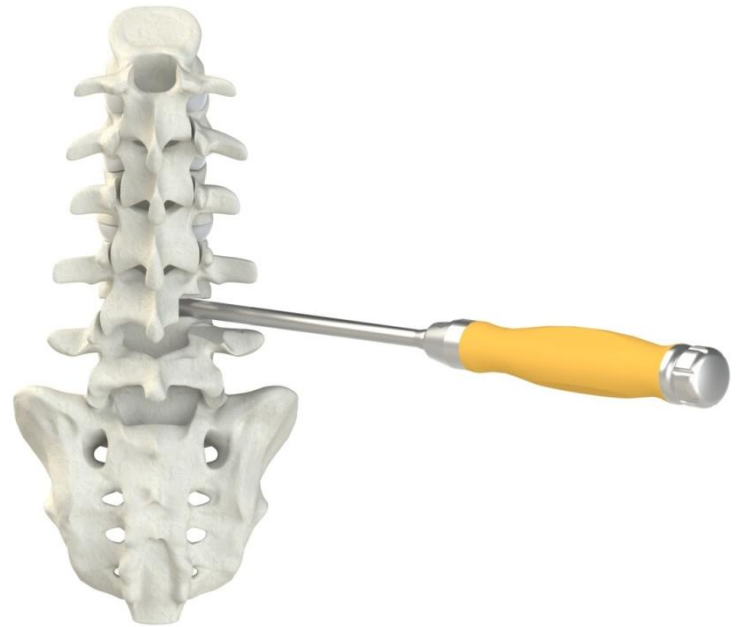


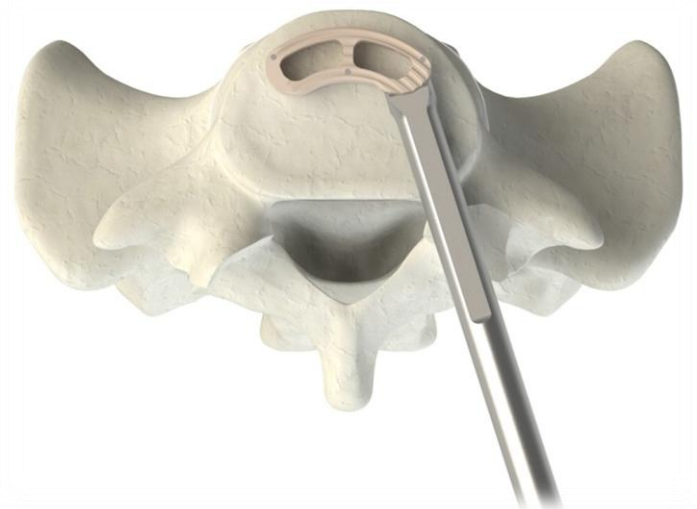
Figure 9



b



a



c

Figure 10

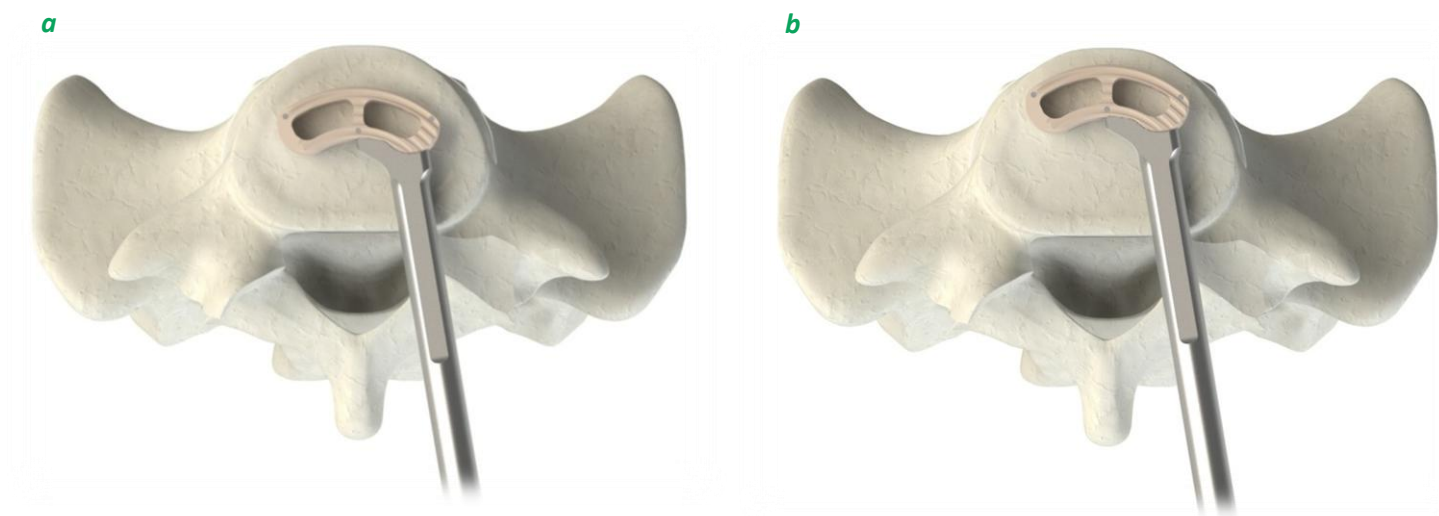


Figure 11

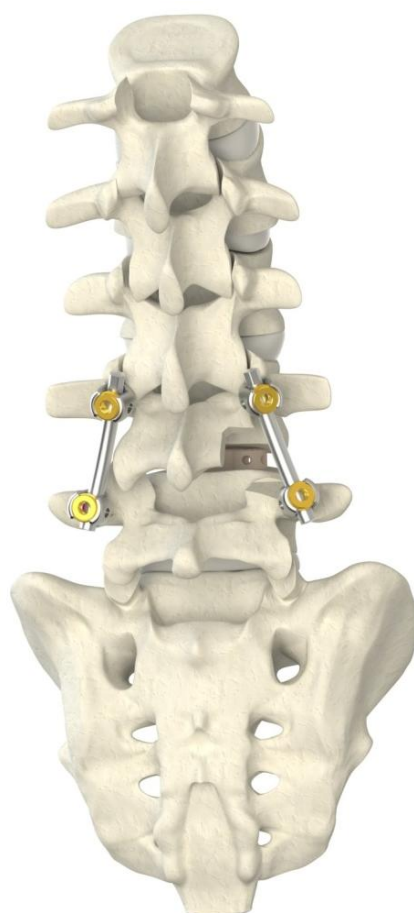


Figure 12

The surgical technique shown is for illustrative purpose only. The actual techniques employed will always depend on surgeons' medical judgment and can differ from one patient to another.



NovaSpine

335, Rue Saint-Fuscien

80090 Amiens – France

0033 (0)3 22 50 07 31

contact@novaspine.fr