



SYNTHESIS OF TUBEROSITIES

SURGICAL TECHNIQUE



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Objective

Fixation of tuberosities
by osteosuture

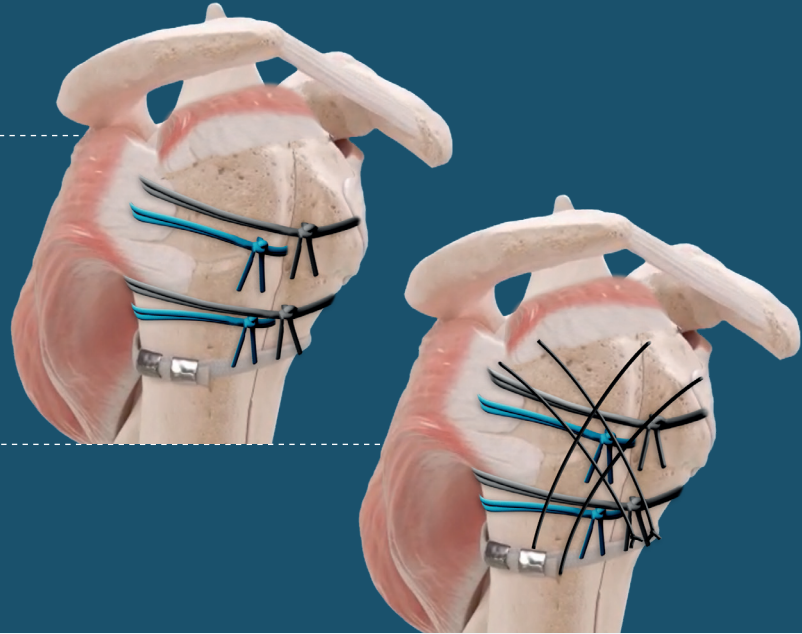
Technical summary

Horizontal cerclage: reduction of tuberosities

- 2 cerclage systems for trochiter
 - 1 infraspinous guying (FH LOOP TAPE #2)
 - 1 small round guying (FH LOOP TAPE #3)
- 2 cerclage wires for trochiter and trochin
 - 1 infraspinatus/subscapular guying (FH LOOP TAPE #1)
 - 1 small round/subscapular guying (FH LOOP TAPE #4)

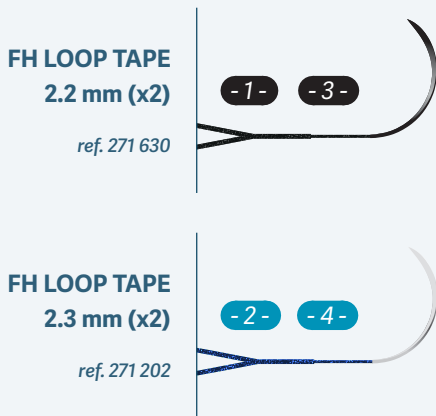
Vertical cerclage

- 1 diaphysis/infraspinatus/supraspinatus guying (FH LOOP)
- 1 diaphysis/supraspinatus/subscapularis guying (FH LOOP)

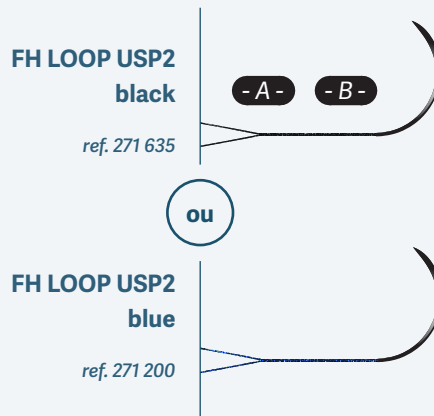


Sutures needed

FH LOOP TAPE



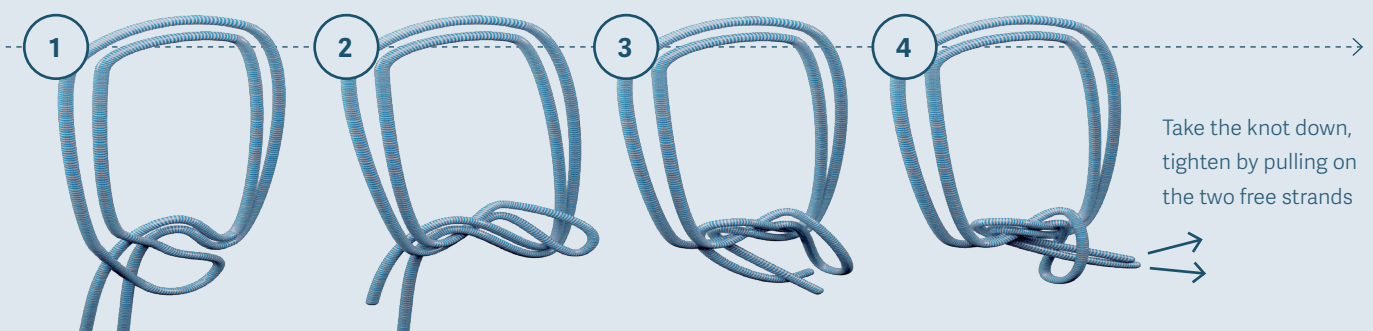
FH LOOP (X2)



STRAPFLEX



Nice Knot technique





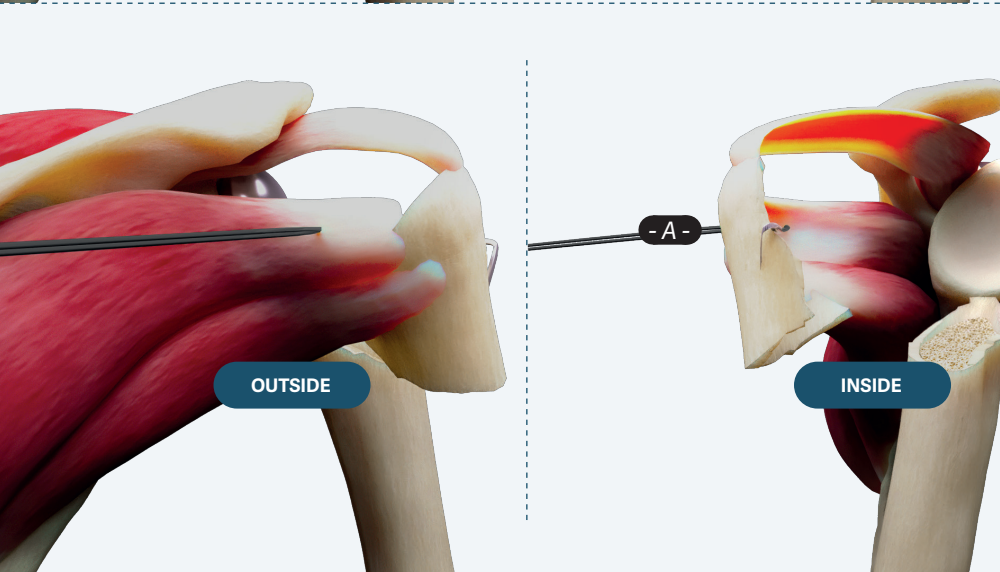
SURGICAL TECHNIQUE

Horizontal cerclage

Setting up the sutures

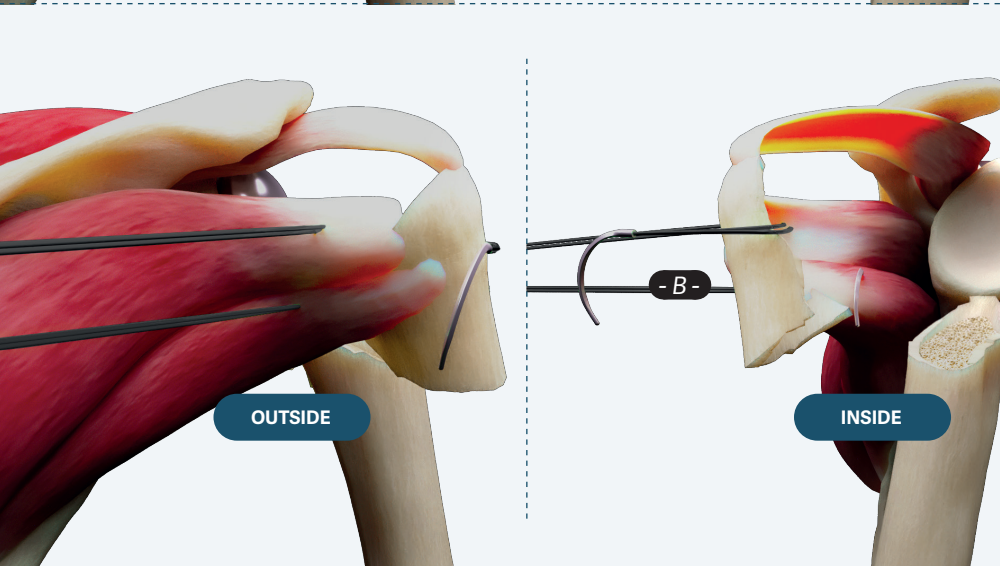


Trochiter (infrapinatus and Teres minor)



1 **FH LOOP** tractor from the outside to the inside in the infrapinatus

FH LOOP black - A -



1 **FH LOOP** tractor from the outside to the inside in the Teres minor

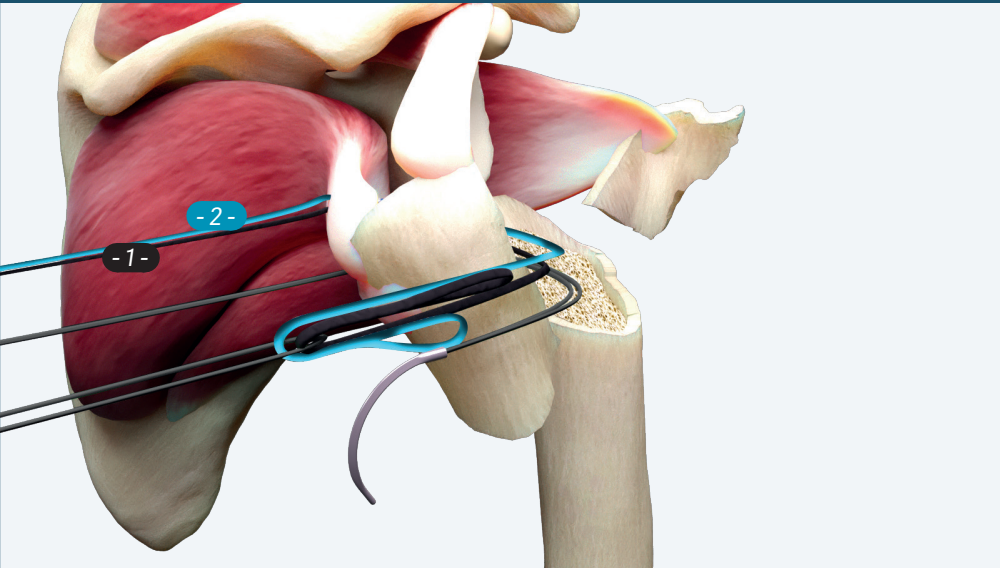
FH LOOP black - B -

The sutures should be passed at the junction between the tendon and the tuberosity



SURGICAL TECHNIQUE

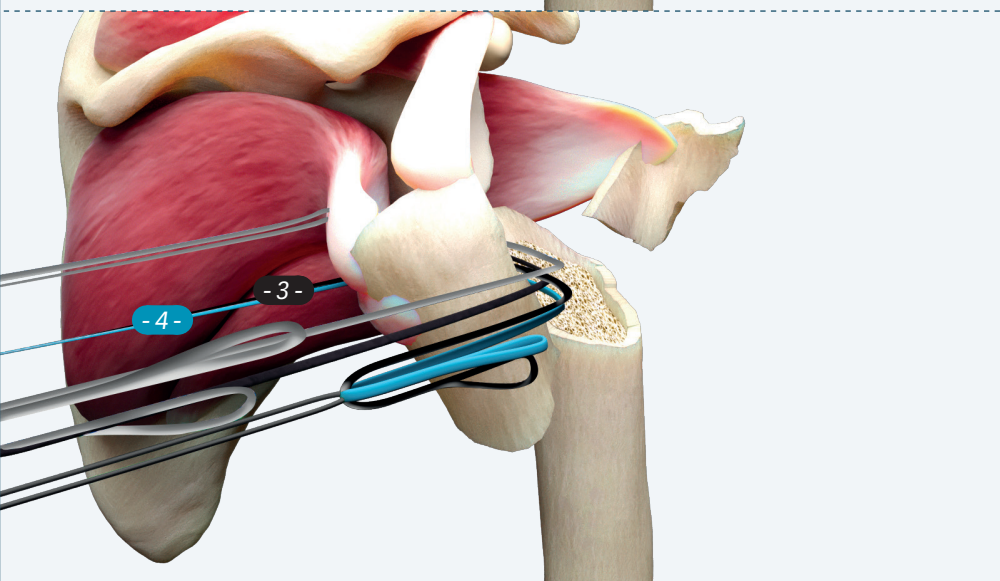
Horizontal cerclage



Pass 2 **FH LOOP TAPE**
in the **FH LOOP** tractor
of the infraspinatus **-A-**

FH LOOP TAPE black - 1

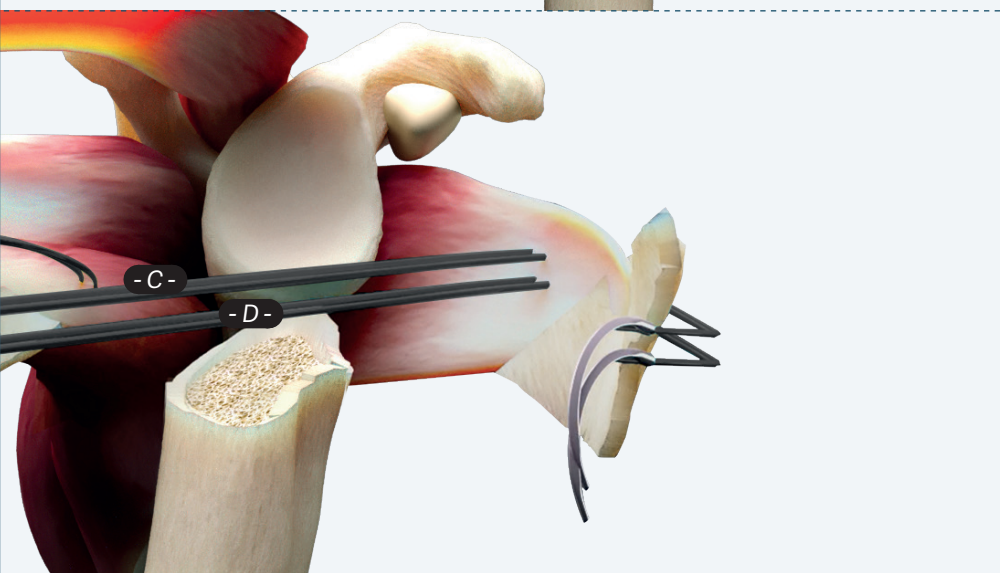
FH LOOP TAPE blue - 2



Pass 2 **FH LOOP TAPE**
in the **FH LOOP** tractor
of the Teres minor **-B-**

FH LOOP TAPE black - 3

FH LOOP TAPE blue - 4



Trochin (subscapular)

Pass 2 **FH LOOP** tractors from the inside
to the outside in the subscapular

FH LOOP black - C

FH LOOP black - D

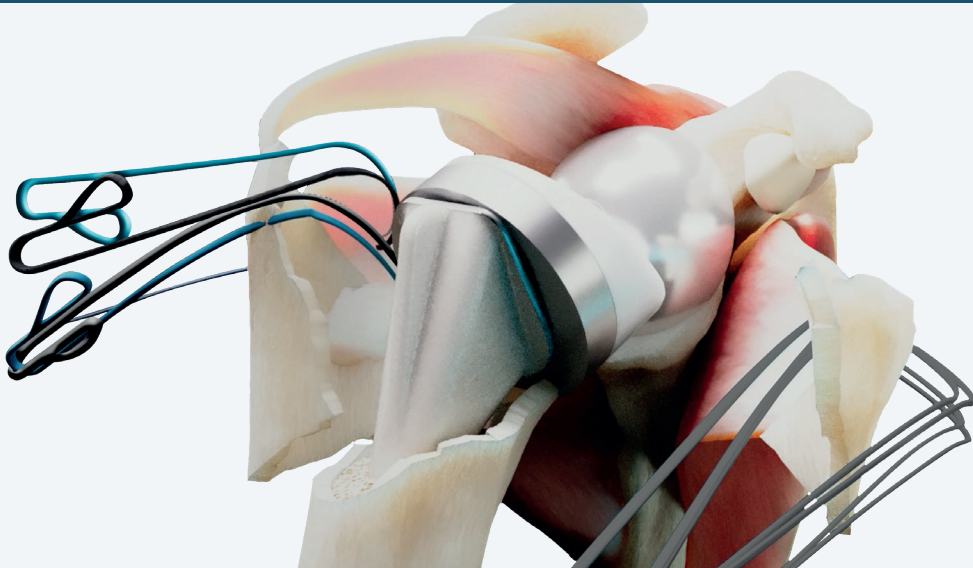
The sutures should be passed at the junction between the tendon and the tuberosity



SURGICAL TECHNIQUE

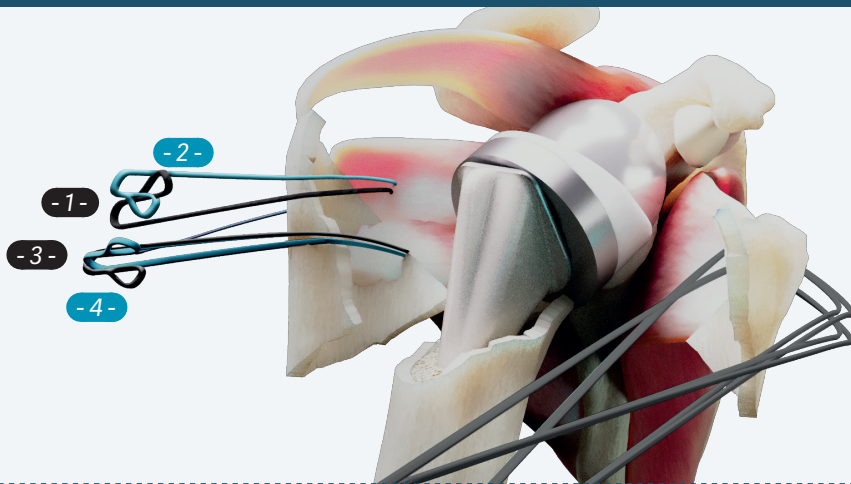
Horizontal cerclage

Placement of the permanent implants



Setting up the implants

Horizontal cerclage



FH LOOP TAPE of infraspinatus

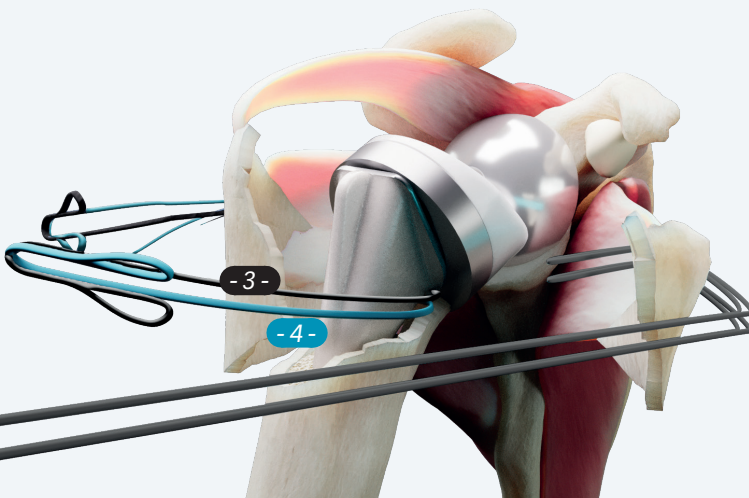
FH LOOP TAPE black - 1

FH LOOP TAPE blue - 2

FH LOOP TAPE of the Teres minor

FH LOOP TAPE black - 3

FH LOOP TAPE blue - 4



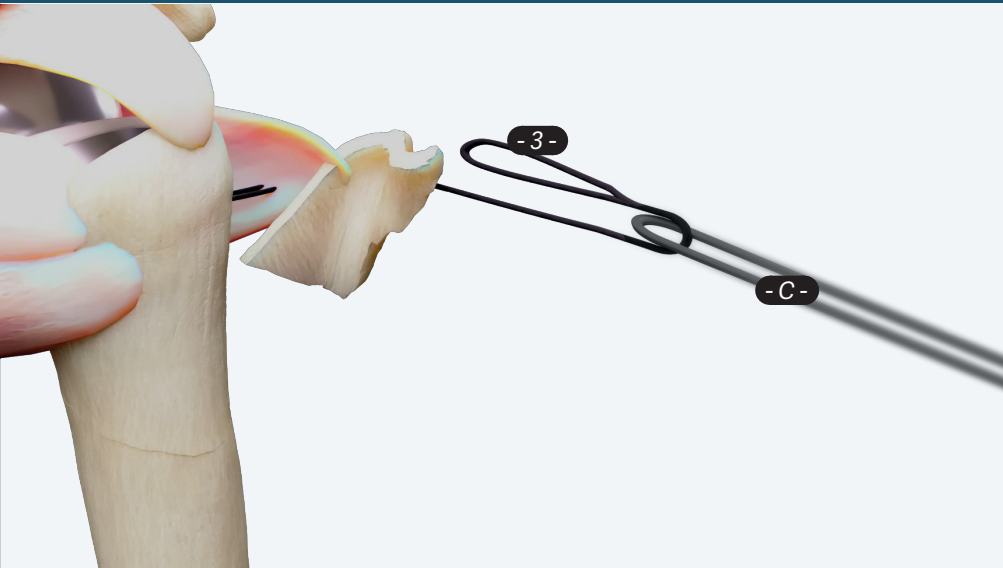
- To facilitate the sliding of the sutures, pass - initially only the 2 **FH LOOP TAPE** of the Teres minor - 3- and - 4- behind the stem

- Check that your sutures slide well

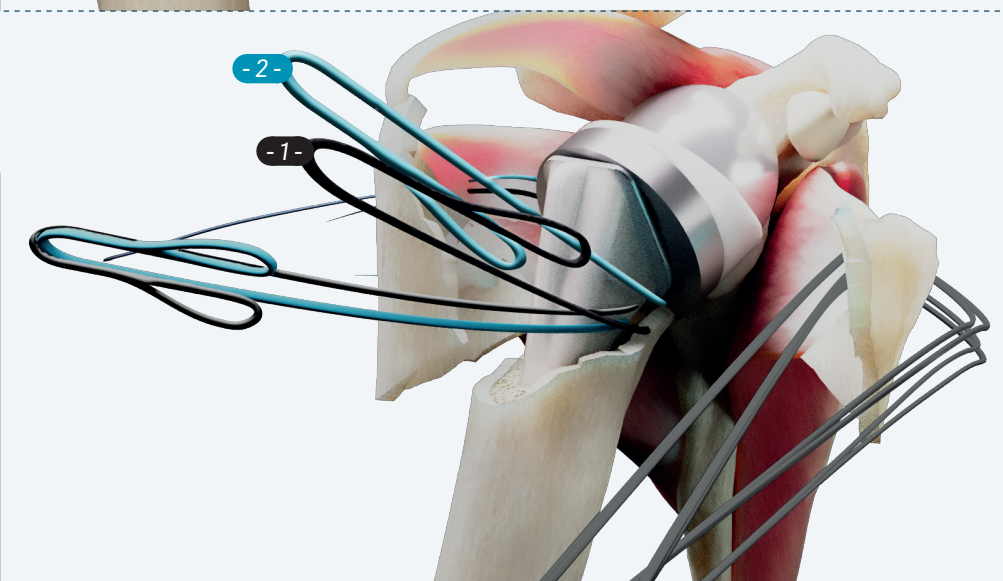


SURGICAL TECHNIQUE

Horizontal cerclage



Pass the **FH LOOP TAPE black** from the Teres minor **-3-** into the **FH LOOP black -C-** subscapular tractor



- Pass the 2 **FH LOOP TAPE** of the infraspinatus **-1-** and **-2-** behind the stem
- Check that your sutures slide well

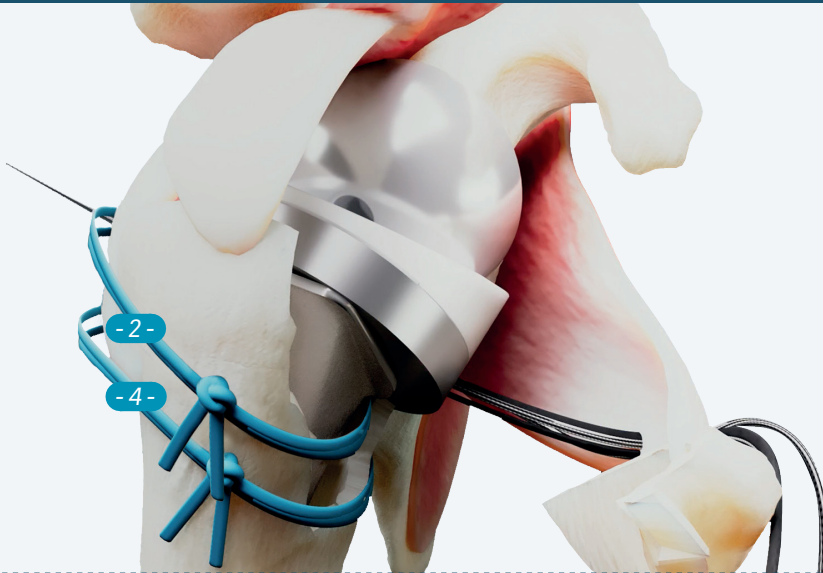


Pass the **FH LOOP TAPE black** of the infraspinatus **-1-** into the **FH LOOP** tractor of the subscapularis **-D-**



SURGICAL TECHNIQUE

Horizontal cerclage



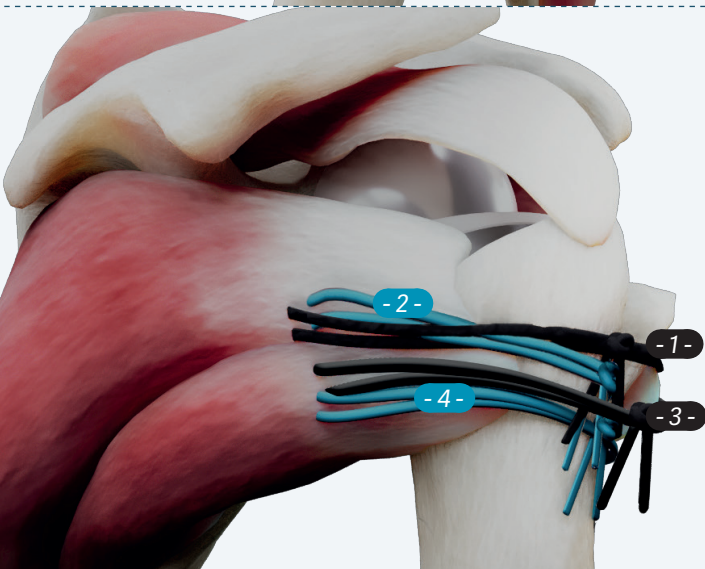
Nice Knot of the **FH LOOP TAPE** -2-

Nice Knot of the **FH LOOP TAPE** -4-



Nice Knot of the **FH LOOP TAPE** -1-

Nice Knot of the **FH LOOP TAPE** -3-



Securing the Nice Knot

FH LOOP TAPE black - 1

FH LOOP TAPE blue - 2

FH LOOP TAPE black - 3

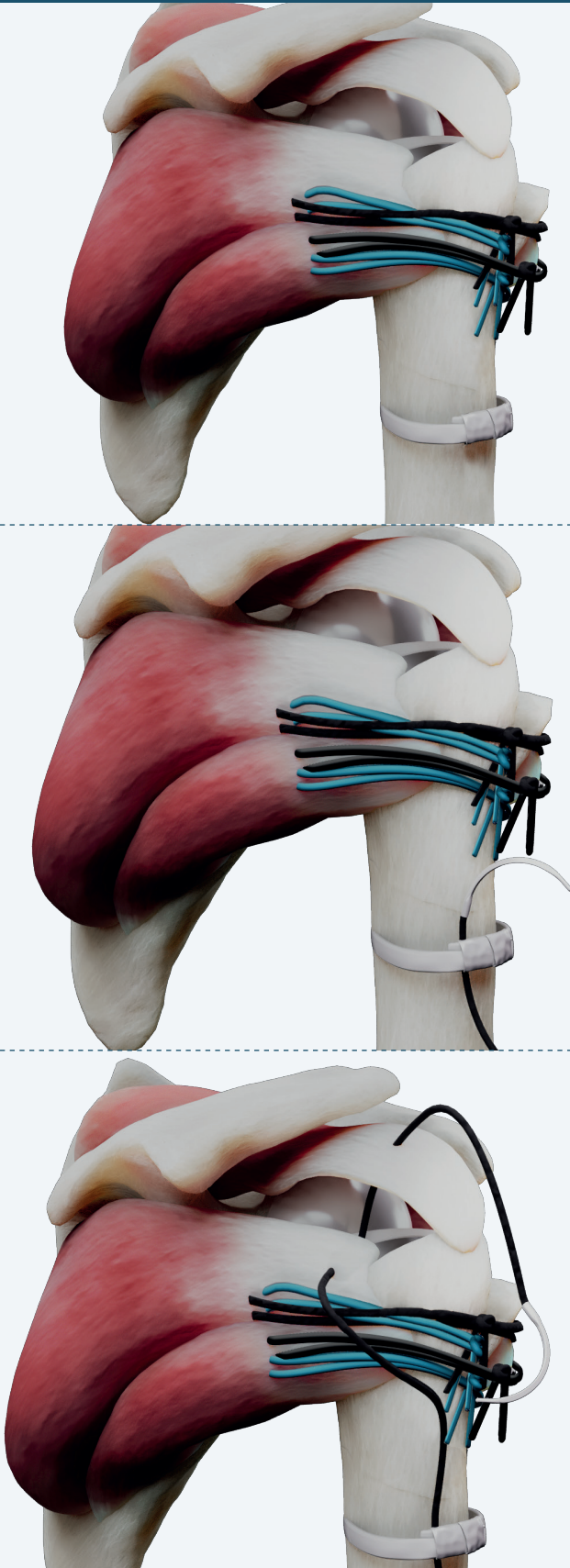
FH LOOP TAPE blue - 4



SURGICAL TECHNIQUE

Vertical cerclage

For vertical guying, use the FH LOOP used for towing for horizontal guying



Setting up a **STRAPFLEX**

OPTION: drill before cementing the humeral stem for the passage of vertical guying in the diaphysis

Pass a 1st **FH LOOP** (which was used as a tractor for horizontal cerclage) under the **STRAPFLEX**

Pass this 1st **FH LOOP** in:

- infraspinatus from the outside to the inside
- then in the supraspinatus from the inside to the outside

Nice Knot

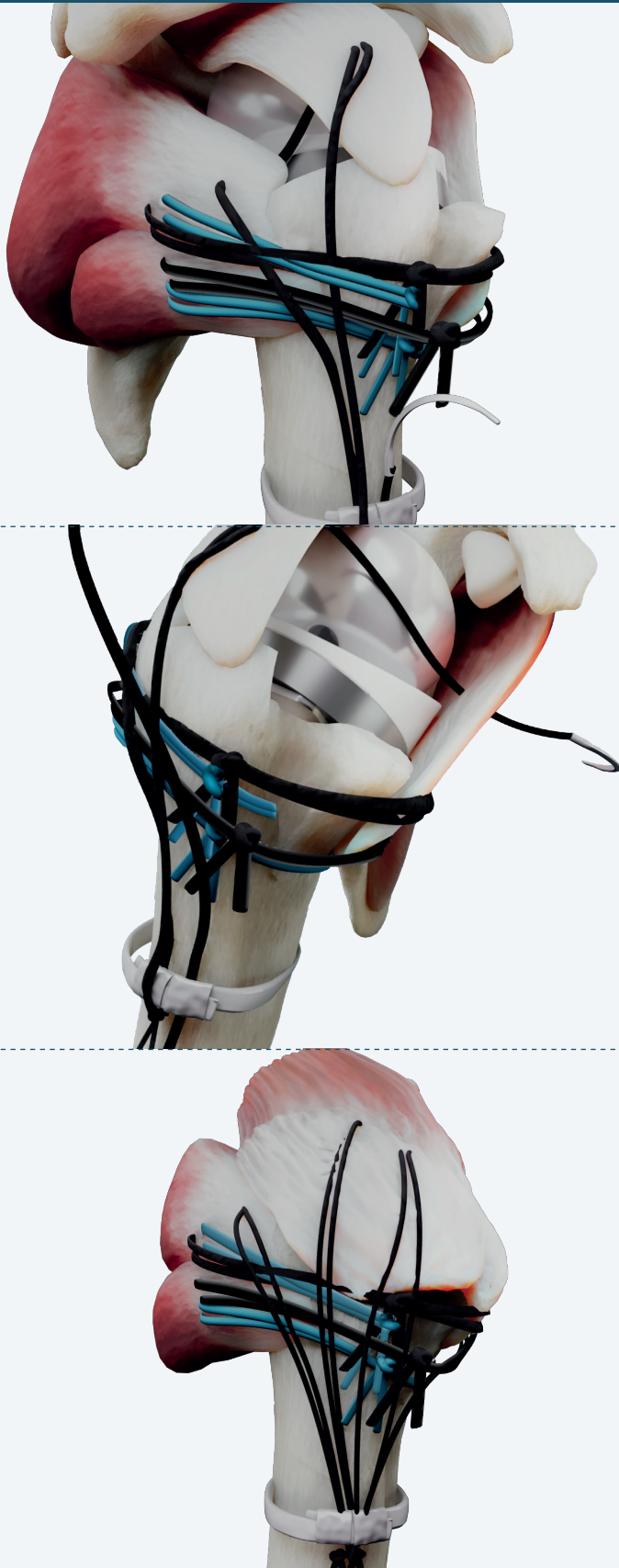
Securing the Nice Knot

The sutures should be passed at the junction between the tendon and the tuberosity



SURGICAL TECHNIQUE

Vertical cerclage



Pass the 2nd **FH LOOP** (which was used as a tractor for horizontal cerclage) under the **STRAPFLEX**

Pass this 2nd **FH LOOP** in:

- the supraspinatus from the outside to the inside
- then into the subscapularis from the inside to the outside

Nice Knot

Securing the Nice Knot

Final result

