

Proximal Junctional Kyphosis (PJK) can lead to Proximal Junctional Failure (PJF), a serious, early complication in adult spinal surgery that may require revision surgery.

- Risk factors include over-correction, under-correction, excessive ligament dissection, osteoporosis <sup>(13,12)</sup>
- Radiographic definition a Kyphotic angle and change between UIV and UIV+2  $>10^\circ$  <sup>(23)</sup>
- 66 % of the cases typically occur within 3 months of surgery <sup>(24)</sup>
- Up to 40% of ASD surgery patients affected by PJK <sup>(12)</sup>

### 3.1. p.d. atitikimas: "Konektorius vientisas, be judančių dalių"



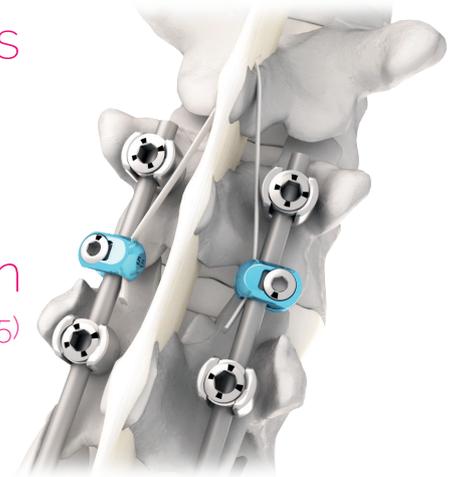
## Soft landing of spinal posterior constructs

Safe <sup>(1)</sup> and proven Jazz™ band technology, removes the abrupt transition between the rigid fused thoracic and lumbar spine and flexible unfused vertebral segments <sup>(14)</sup>.

## "Tethering augmentation is an option in mitigating the sudden stiffness change"<sup>(25)</sup>

Polyester tether constructs create a gradient of stiffness, soft tissue augmentation and allow an effective distribution of range of motion at the UIV and proximal segment <sup>(25)</sup>.

Pedicle screw loads and ligament forces reduced with increasing the number of tethers used <sup>(25)</sup>. Prospective study <sup>(14)</sup> reported on the safety and positive early outcomes with Band technology for prevention of PJK.



### 3.1. p.d. atitikimas: "Galima rinktis tarp skirtingų konektorių, kurie pritaikyti fiksuoti sublaminarinę juostelę prie strypo vertikaliajoje arba horizontalioje padėtyje."

## Tethering linkage options

Inter spinous	Intra spinous	Intra spinous	Inter spinous & subtransverse
Band passage above the UIV+1 spinous process	If D sufficient (> 15mm) Jazz™ PF connectors below UIV Screws Perforation of spinous process to pass the Band at UIV+1	If D insufficient (< 15mm) Jazz™ PF connectors below UIV-1 Screws Perforation of spinous process to pass the Band at UIV+1	If D sufficient (> 15mm) Jazz™ PF connectors below UIV Screws Bilateral Sub transverse at UIV + above spinous process passage of the Band at UIV+1

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 (13) Liu FY, Wang T, Yang SD, Wang H, Yang DL, Ding WY. Incidence and risk factors for proximal junctional kyphosis: a meta-analysis. Eur Spine J. 2016 Aug;25(8):2376-2383.  
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 (23) Glatte RC, Bridwell KH, Lenke LG, Kim YJ, Rinella A, Edwards C 2nd. Proximal junctional kyphosis in adult spinal deformity following long instrumented posterior spinal fusion: incidence, outcomes, and risk factor analysis. Spine 2005 Jul 15;30(14):1643-1649.  
 (24) Yagi M, Rahm M, Gaines R, Maziad A, Ross T, Kim HJ, Kebaish K, Boachie-Adjei O; Complex Spine Study Group. Characterization and surgical outcomes of proximal junctional failure in surgically treated patients with adult spinal deformity. Spine 2014 May 1;39(10):E607-614.  
 (25) Bess S, Harris JE, Turner AW, LaFage V, Smith JS, Shaffrey CI, Schwab FJ, Haid RW Jr. The effect of posterior polyester tethers on the biomechanics of proximal junctional kyphosis: a finite element analysis. J Neurosurg Spine. 2017 Jan;26(1):125-133.

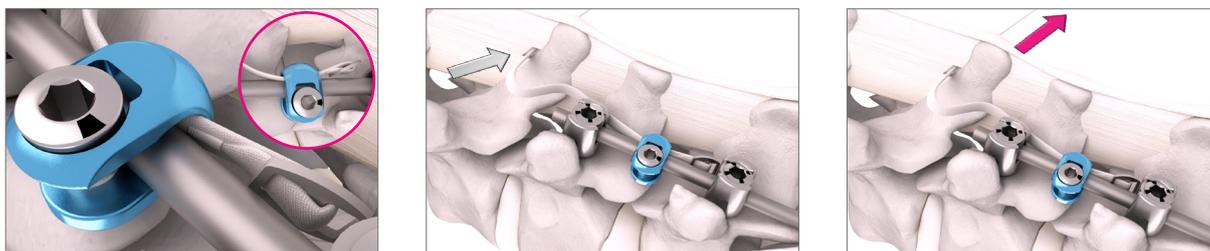
# Jazz™ PF surgical approach

## Procedure:

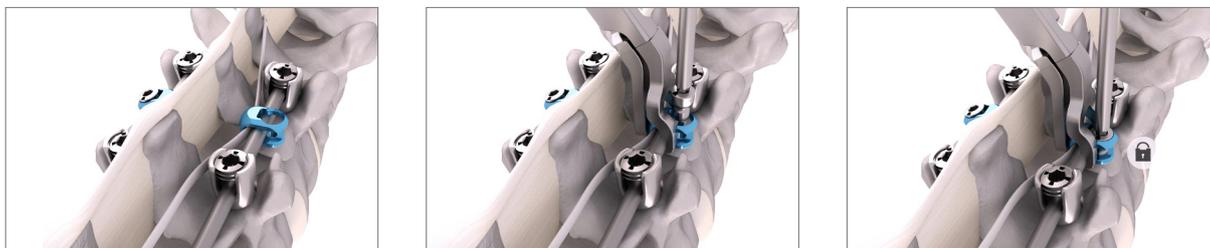
1. Jazz™ PF connector & Band connection to one rod.



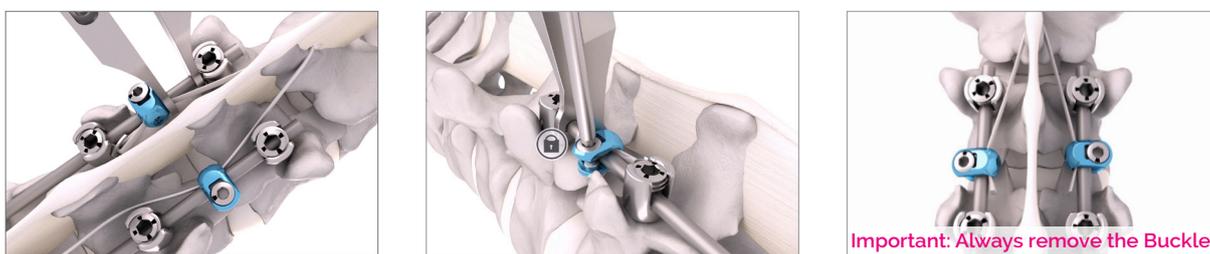
2. Pull the Jazz™ Band until the buckle splice contacts the Jazz™ PF connector. Jazz™ Band passed inter or intra spinous at UIV+1.



3. Second Jazz™ PF connector & Band connection to contralateral rod, final tightenin the Jazz™ PF screw.



4. Adjust band tension using a compressor or distractor. Final tighten the Jazz™ PF screw. Cut the remaining band 5 to 10mm caudal to the Jazz™ PF connectors.



Important: Always remove the Buckle

## References

.1. p.d. atitikimas: "Vienas iš vertikalių ir horizontalių konektorių tinka 5,5 mm diametro strypui."

### Jazz™ PF Connector



Reference	Designation
150758	Jazz PF - 5.5mm Connector Kit
150759	Jazz PF - 6mm Connector Kit

### Braid



Reference	Designation
150156	Jazz Band
150157	Jazz Passer Band



IMPLANET's implants are delivered in sterile packaging.

