VertiGRAFT®
VG1® LAMINOPLASTY

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	Bone	PEEK	Plate-Only Construct
Description	Plate with bone spacer	One Piece PEEK Plate/Spacer or Ti Plate with Peek Spacer	Plate-only construct
Decompression and Reconstruction Methodology	Plate and allograft construct provides immediate decompression and stabilization. Allograft spacers accommodate the potential for lamina reconstruction through bone remodeling.	A typical all PEEK construct creates a decompression methodology and immediate stabilization only. As we know, solid PEEK is hydrophobic and can limit bony ingrowth.[1]	A "plate only" laminoplasty reconstruction does not create a unifying mass of bone. Load and stress transfer occur at the screw/plate/bone interface.
Interview Questions	What type of preservation methodology does your graft utilize? What effect does this have on rehydration and graft strength?	Why choose a material that does not fuse to bone? What biological response or bone remodelling occurs at the bone-PEEK interface? Where does the load transfer occur in this type of construct?	Why choose a construct that provides less than optimal conditions for a bone modeling response? How does load and stress transfer occur for this type of reconstruction?
Demonstrate and Discussion Points	Discuss the value and convenience of Preservon®.	Discuss hydrophobic properties of PEEK medical devices. Explain the concept of positive bone remodeling and Wolff's law.[2]	Discuss with your surgeon the concept of anatomic load sharing and Wolff's law.

VG1 LAMINOPLASTY

Preservon	Height*	Width*	Length*
VG1 LAM4B	6 mm	9 mm	4 mm
VG1 LAM6B	6 mm	9 mm	6 mm
VG1 LAM8B	6 mm	9 mm	8 mm
VG1 LAM10B	6 mm	9 mm	10 mm
VG1 LAM12B	6 mm	9 mm	12 mm

Supporting Resources

1. Hoppe et al. 2018, McGilvray et al. 2017
2. Bone Regeneration and Repair: Biology and Clinical Application, edited by Jay R. Lieberman, Gary E. Friedlaender

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68-50-213.01