SPACE® AIS Simplified Stability



Vancogenx-Space[®] Knee ATS

Born from Tecres technology and innovation we are proud to present Vancogenx-Space® Knee ATS.

Vancogenx-Space[®] Knee ATS is a preformed knee spacer component that offers an augmented tibial stem (ATS) for an enhanced stability and mechanical strength*. It is intended to be used always together with Vancogenx-Space[®] Knee, in case of patient with a severe tibial bone defect.

Vancogenx-Space[®] Knee ATS coupled with the tibial component of Vancogenx-Space[®] Knee is designed to create a tibial modulus that fills the bone defect, generating a knee spacer with a thicker tibial component plus a short stem, that enhances the strength and stability of the implant*.



Peer Reviewed Clinical Papers in 28 centers worldwide

A perfect fit every time

1,525 cases reported 91.2% eradication rate

56.5 months average follow-up

Tecres provides the surgeon with an easy way to increase the tibial thickness in cases of severe tibial defects. Vancogenx-Space[®] Knee ATS is intended to optimize the fit of the device to the patient's anatomy and facilitate proper device positioning during surgical procedures. Positioning may be challenging in certain patients where the tibial bone defect is wide. Using a large quantity of bone cement to fill the gap would make it more difficult to obtain the correct positioning and the optimal coupling with the femoral component. Vancogenx-Space[®] Knee ATS coupled with the tibial component of Vancogenx-Space[®] Knee is designed to create a tibial modulus that optimally fills the bone defect. Vancogenx-Space[®] Knee ATS is available in 2 thickness options and 2 width options to guarantee a perfect fit every time.

Unique design for enhanced stability*

The device presents a stem which is designed to act as a guide during placement to facilitate positioning and reduce the risk of dislocation during application and reduction. The combination between Vancogenx-Space[®] Knee ATS and Vancogenx-Space[®] Knee generates a knee spacer with a thicker tibial component plus a short stem. From the mechanical point of view this combination is much more resistant as compared to Vancogenx-Space[®] Knee alone. When connected, corrugated surface and notch from ATS and keyhole from tibial component of Vancogenx-Space[®] Knee, are engineered for increased fixation, improving the overall mechanical strength of the implant.

Safe and effective AB release

Vancogenx-Space[®] Knee ATS is engineered with the same PMMA technology of our Vancogenx-Space[®] Line. This means that from the pharmacological point of view the combined antibiotic release of Gentamicin and Vancomycin is safe and effective. Release performances are known and reproducible, making Vancogenx-Space[®] Knee ATS a reliable and safe choice. Two-stage exchanges with the use of Tecres Spacer Line have shown eradication rates greater than 91% in more than 1,500 cases reported.¹

Synergistic Antibiotics Action

When combined, Gentamicin and Vancomycin have a synergistic action against bacteria.^{2,3,4} Their range of action covers approximately 90% of the pathogenic agents generally isolated in surgical infections.⁵ The Gentamicin and Vancomycin combination is the most commonly used and published combination in cases of concomitant treatment of orthopaedic infections.^{6,7}

	GRAM+	GRAM+						
	MRS Methicillin Resistant Staphylococci	MSS Methicillin Susceptible Staphylococci	Enterococci	Streptococci	Cutibacteria	Enterobacte- riaceae	Pseudomanas spp	
Gentamicin	Medium	Low	Medium		-	Medium		
Vancomycin	High	High				-	-	
Gentamicin and Vancomycin	Synergistic	Synergistic			Medium			

Advantages

EASY TO USE

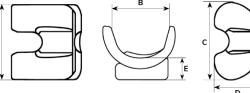
- Preformed and ready to use
- Fast and easy implantation
- 4 different size options for a perfect fit every time
- Stem complemented by fins, designed to act as a guide to facilitate positioning and reduce the risk of dislocation during application and reduction

SAFE AND EFFECTIVE

- Enhanced stability for patients with severe tibial defects*
- Two thickness options to address bone defects and lack of stability
- Enhanced mechanical strength, thanks to the engineered combination with Vancogenx-Space® Knee that increases fixation

DUAL ANTIBIOTIC SYNERGY

- Safe and effective antibiotic release
- Synergistic action of exclusive antibiotic combination Gentamicin and Vancomycin
- Eradication rate greater than 91% in two-stage revision using Tecres Spacer Line



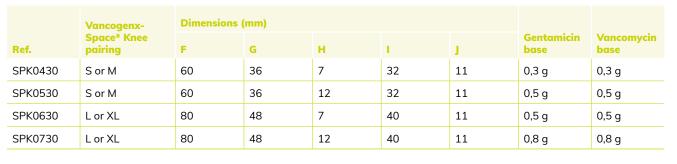
J

Vancogenx-Space[®] Knee

		Dimensions	(mm)					
Ref.	Size	A	в	с	D	E	Gentamicin base	Vancomycin base
SPK0030	Small (S)	54	40	60	36	16	0,9 g	0,9 g
SPK0130	Medium (M)	64	47	70	42	17	1,3 g	1,3 g
SPK0230	Large (L)	74	54	80	48	18	1,8 g	1,8 g
SPK0330	Extra Large (XL)	84	61	90	54	19	2,7 g	2,7 g

Vancogenx-Space[®] Knee ATS





Bibliography

- 2. Watanakunakorn C, Bakie C. Synergism of vancomycin-gentamicin and vancomycin-streptomycin against enterococci. Antimicrob Agents Chemother. 1973 Aug;4(2):120-4.
- 3. Watanakunakorn C, Tisone JC. Synergism between vancomycin and gentamicin or tobramycin for methicillin-susceptible and methicillin-resistant Staphylococcus aureus strains. Antimicrob Agents Chemother. 1982 Nov;22(5):903-5. E. Bertazzoni Minelli, T. Della Bora, A. Benini. Different microbial biofilm formation on polymethylmethacrylate (PMMA) bone cement loaded with
- 4. gentamicin and vancomycin Anaerobe. 2011 Dec; 17(6): 380-3
- Trampuz A, Zimmerli W. Prosthetic joint infections: update in diagnosis and treatment. Swiss Med Wkly. 2005 Apr 30;135(17-18):243-51. Review. Masri BA, Duncan CP, Beauchamp CP. Long-term elution of antibiotics from bone-cement: an in vivo study using the prosthesis of antibiotic-loaded acrylic cement (PROSTALAC) system. J Arthroplasty. 1998 Apr;13(3):331-8. 5 6.
- 7. Anagnostakos K, Fink B. Antibiotic-loaded cement spacers - lessons learned from the past 20 years. Expert Rev Med Devices. 2018 Mar;15(3):231-245.

