

Endovascular EUROPE TODAY

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An interview with Professor Thomas Zeller, MD

The Director of the Department of Angiology at Universitaets-Herzzentrum talks data on renal denervation, drug-eluting balloons, and other recent trials.

Can you tell us a little about the technology behind the BioMimics 3D stent (Veryan Medical Ltd., Horsham, UK)? Theoretically, why is a 3D helical stent beneficial? What is the latest on the MIMICS study, which you presented at VIVA 13?

Two design aspects of the stent could be beneficial:

- (1) The 3D helical design results in a better absorption of particular axial compression forces typically exposed to the stent during leg bending, thus resulting in a significantly higher fracture resistance as shown in bench tests;
- (2) The helical design translates a laminar flow into a "swirling flow" that increases shear stress, which is linked to a suppression of neointima hyperproliferation, as confirmed in animal tests.

