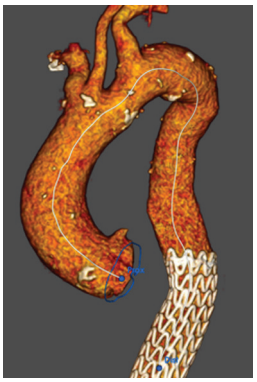
NEXUS DUO™ BY ENDOSPAN | AORTIC ARCH STENT GRAFT SYSTEM

CASE STUDY

FIRST IN HUMAN WITH 30 DAY FOLLOW UP
NEXUS DUO™ CUSTOM-MADE AORTIC ARCH STENT GRAFT SYSTEM

PATIENT INFORMATION

The 75-year-old, high-risk patient presented with a complicated chronic none A-none B aortic dissection, respectively a proximal neck degeneration (Zone 3) after TEVAR.



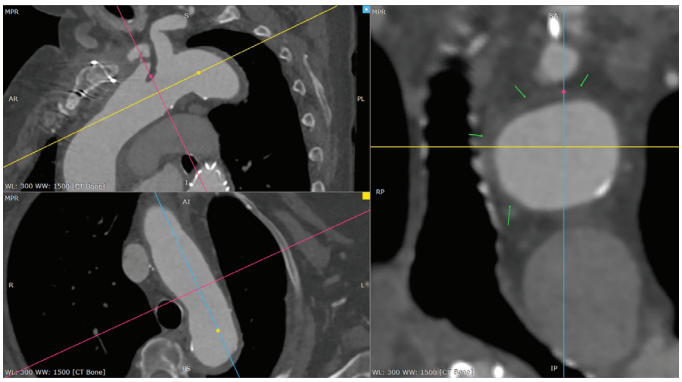


Figure 1. Preoperative morphology. Note the diseased Zone 2 (arrows)

REASON TO TREAT

Exclusion of arch pathology whilst maintaining a convenient retrograde axillary access for a pending distal descending/thoraco-abdominal endovascular repair.

STAGE 1

RCCA to LCCA surgical bypass was performed.

NEXUS DUO™ IMPLANTATION

1 week later, the NEXUS DUO™ Arch Stent Graft was implanted in an uncomplicated percutaneous intervention utilizing the LSA for the 2nd branch.

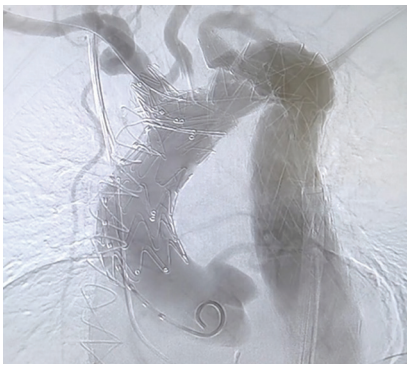


Figure 2.
Intraoperative completion angiography

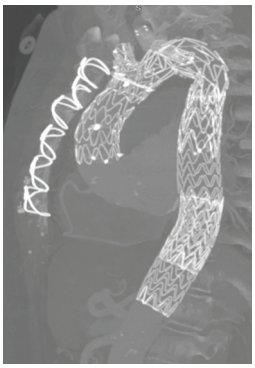


Figure 3.
30 day follow-up

PROCEDURAL OUTCOME

NEXUS DUO™ implantation, with its pre-cannulated 2nd branch, was performed in December 2022. After a successful procedure the patient was discharged home 3rd post operative day.

30 DAY FOLLOW UP

30 day follow-up showed the patient doing very well, and CT study showed good position and function of the dual-branch system.

PHYSICIAN COMMENTS

NEXUS DUO™ is an interesting evolution of the CE-marked NEXUS® single branch aortic arch endovascular system. It offers a second branch, which is a customizable inner branch, that is pre-cannulated, allowing preloading of 0.014" wires.

Pre-testing in elastomeric models as well as our first clinical experience confirm the system makes it quite easy to bridge to the second target artery (left carotid or left subclavian artery).

Overall, the pre-wired system results in minimal arch and target vessel manipulation to achieve stent graft completion.

Hirslanden Klinik
Zurich, Switzerland

M. Lachat, MD
Aortic and Vascular Centre Hirslanden

D. Planer, MD
Hadassah University Hospital, Jerusalem

N. Avisar
Endospan

M. Szente Varga, MD
Aortic and Vascular Centre Hirslanden

ENDOSPAN®

MKE-0009717 Rev1.0