The use of Fiber Optic RealShape (FORS) technology in various aortic interventions

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Disclosure

Speaker name:

Geert Willem Schurink

I have the following potential conflicts of interest to report:

☒ Consulting (Philips)
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☐ I do not have any potential conflict of interest
FORS: breakthrough 3D device guidance technology that allows you to see more during navigation and positioning.

From X-ray, today’s gold-standard

2D, black and white images, and ionizing radiation

To Fiber Optic RealShape (FORS) technology from Philips

Real-time, full shape 3D device visualization in unrestricted viewing angles, in color, in context of the anatomy, and this without the use of fluoroscopy.

Fiber Optic RealShape technology is CE marked and 510(k) cleared.
What has been our journey so far?

- FIH study in UMC-Utrecht 2018
- Limited Edition CE label End 2019
- Start of the FORS Limited Edition in EU, UKE as first install. UMC-U, MUMC+...
- Limited Edition 510(k) cleared End 2020 Ready to start installs in the USA in 2021
- ~350 cases completed May 2022
- 5 Installs in the USA

Maastricht UMC+ Heart+Vascular Center
Procedure snapshot to date

FORS Clinical partners

Adam Beck
USB - USA

Jorrit van Herwarden
UMCU - Netherlands

Tilo Kolbel
UZC - Germany

Bijan Mostai
BSTT - UK

Andres Schurz
MMCI - USA

Darren Schneider
FSM - USA

Marc Schemenhorn
STMC - USA

Geert Wijen Schutink
UMCU - Netherlands

Carlo Tireran
UTSW - USA

Total of 345 FORS procedures to date

Data, as per May 13th, 2022, from FIH study and FORS Learn Registry current enrollment

FORS in use
FENESTRATED EVAR

- Cannulating left renal artery
- Using FORS to shape steerable sheath
- Advantage of biplane imaging

Results of cases studies are not predictive of results in other cases. Results in other cases may vary.
FENESTRATED EVAR

- Cannulating the SMA
- Avoiding lateral C-arm position
- Shaping steerable sheath using FORS Berenstein catheter

Results of cases studies are not predictive of results in other cases. Results in other cases may vary.
Chimney EVAR

- Brachial access
- Navigation through aortic arch using FORS
- Dual imaging of two different areas

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Chimney EVAR

- Cannulating left and right renal artery

Results of cases studies are not predictive of results in other cases. Results in other cases may vary.
Gore C3 Excluder with IBE

- Cannulation of HA with FORS Berenstein and FORS Guidewire
- Improved navigation because of virtual biplane imaging

Results of cases studies are not predictive of results in other cases. Results in other cases may vary.
CERAB procedure

- Cannulation of occluded right CIA with FORS Guidewire
- Biplane visualization can aid to avoid potential perforation

Results of cases studies are not predictive of results in other cases. Results in other cases may vary.
COOK 2F/2 B (Int/ext)

- Unsuccessful cannulation of SMA using FORS wire and FORS Berenstein catheter
- Lack of torque
COOK 2F/2 B (Int/ext)

- Successful cannulation of SMA using FORS wire and conventional Berenstein catheter

*Results of cases studies are not predictive of results in other cases. Results in other cases may vary.*
Catheter agnostic guidance with FORS Guidewire and 3D Hub technology

Leapfrog innovation to visualize conventional catheters
Summary

• > 350 procedures to date in the FORS LEARN Registry
• FORS mostly used in complex aortic cases (FEVAR, BEVAR)
• 3D Hub technology will probably increase the number of tasks covered by FORS
• Future releases in development will enhance the benefits of FORS within the procedure

Results of cases studies are not predictive of results in other cases. Results in other cases may vary.
Thank you
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