



# i-MEET

## NEXT GENERATION

Multidisciplinary European Endovascular Therapy

### VARIOUS IMPLANTATION TECHNIQUES OF STENT-GRAFTS MODULES FOR ABDOMINAL AND ILIAC ANEURYSMS REPAIR: A FIRST EXPERIENCE IN RUSSIA

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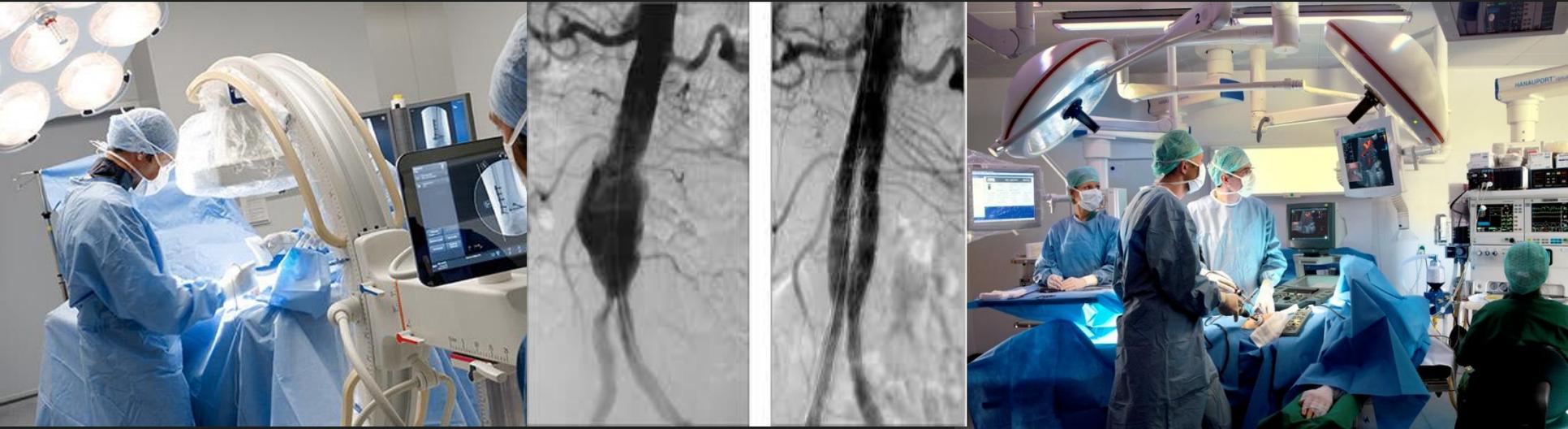
# Disclosure of Interest

Speaker name: **ANNA OLESCHUK**

- **I do not have any potential conflict of interest**

# INTRODUCTION

- The evolution of stent-grafts and endovascular delivery systems has substantially improved the application rate for and patient outcomes with endovascular aneurysm repair (EVAR) of abdominal aortic aneurysm (AAA) and iliac aneurysms.



- There is a continuous improvement of the design of the stent-grafts and implantation technique for reduce the continuing incidence of complications and secondary re-interventions.

# OBJECTIVES

- To evaluate the feasibility and midterm results of a new (for the Russian market) stent-graft for suprarenal, infrarenal and iliac EVAR

# MATERIAL

November 2015 - December 2016

26 pts: 21 men, 5 women; mean age 71 years (59-87)

Patients had

**Suprarenal AAA**



**Infrarenal AAA**



**Iliac artery aneurysms**



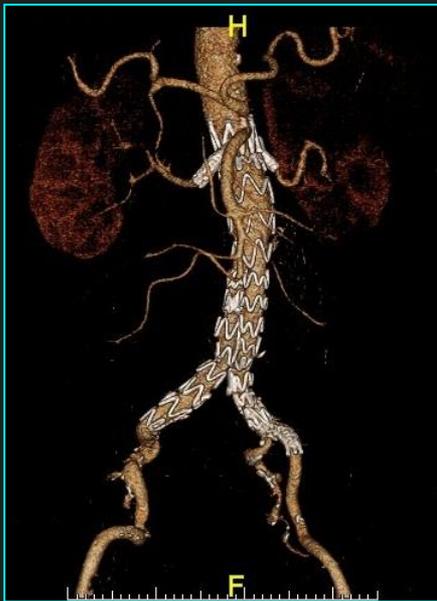
- The mean  $\varnothing$  AAA was 56 mm (48-81), mean  $\varnothing$  IAA – 44 mm (38-52).

# MATERIAL

- The complex vascular anatomy (hostile neck and tortuous iliac artery) were in 11 (42%) cases.
- Most of the patients (79%) were ASA grade 3 or higher.
- All procedures were primary implantation.

# RESULTS

- All stent-grafts were implanted at the intended position; no conversions to open surgery were necessary and no type I endoleak was noted.



Two constructs were made using the Chimney technique.

Abdominal bifurcation stent-grafts have been established in 21 patients.

Sandwich technique has been applied in three cases of iliac aneurysms.



# RESULTS

- There was no 30-day mortality.
- In the mean 12-month follow-up (range 8-17), no stent fractures, migrations, or secondary endoleaks were noted.
- The diameter of the aneurysm was reduced in 12 (46%) and remained unchanged in the 14 (54%) cases.
- One patient required open surgery at 3 months for thrombotic occlusion of the sten-graft branch.
- Two octogenarian patients died during the observation period.

# CONCLUSION

- Modular stent-grafts appear safe and effective in this initial and midterm clinical experience. These devices are especially suitable for complex aneurysm anatomy, such as hostile aneurysm necks or tortuous and dilated iliac arteries.

# Thank you for your attention!

