# Percutaneous Left Atrial Appendage Closure using ICE monitoring via transoral insertion Initial experience and future persectives

# **Medical History**

Age	77
Sex	М
Allergies	None
CHA <sub>2</sub> DS <sub>2</sub> -VASc	4
HAS-BLED	4

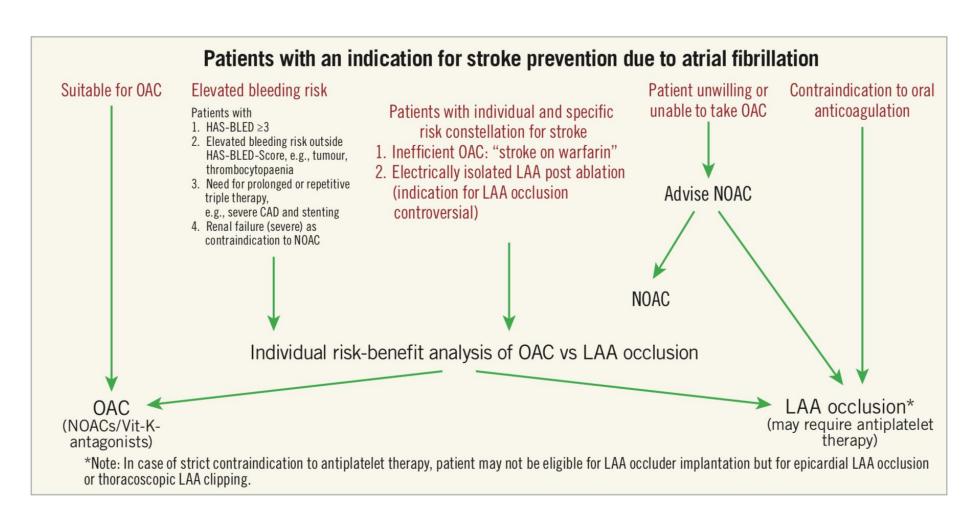
- Chronic AF
- Arterial Hypertension
- Severe COPD w/ bronchiectasis
- CKD III stage
- Liver Cirrhosis HCV (st B)
- Esophageal Varices (st II-III)
- Mallampati IV

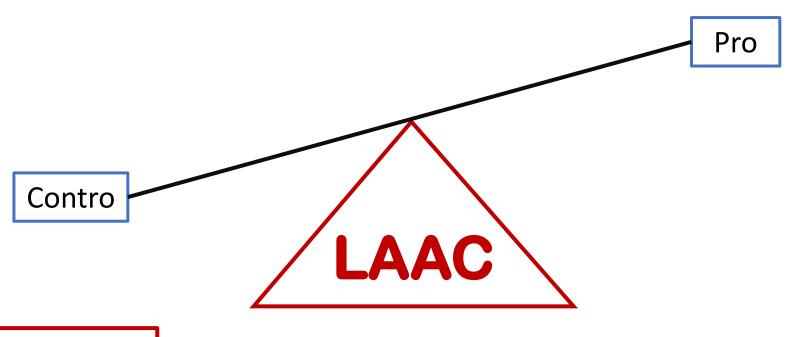
Multiple episodes of anemia requiring blood transfusion FOBT+

Videocapsule: duodenal angiodysplasia

TD: Eliquis 2.5 mg bid

Crea 1.47 – 75 Kg

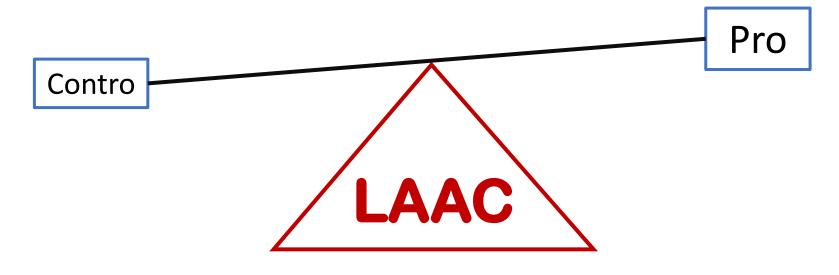




IOT + ETE

#### Recommendations for occlusion or exclusion of the LAA

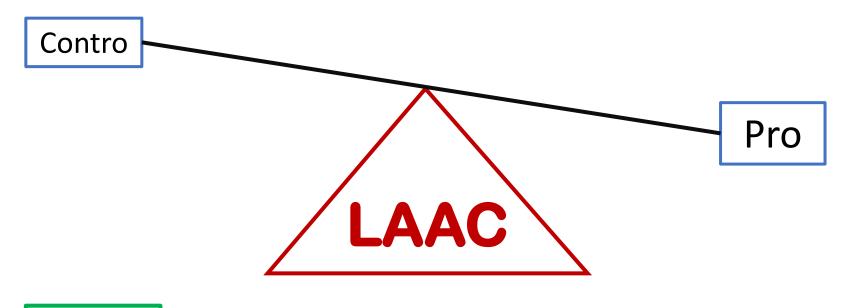
LAA occlusion may be considered for stroke prevention in patients with AF and contraindications for long-term anticoagulant treatment (e.g. intracranial bleeding without a reversible cause). 448,449,481,482



MicroTEE/ICE

#### Recommendations for occlusion or exclusion of the LAA

LAA occlusion may be considered for stroke prevention in patients with AF and contraindications for long-term anticoagulant treatment (e.g. intracranial bleeding without a reversible cause). 448,449,481,482



ICE TE

#### Recommendations for occlusion or exclusion of the LAA

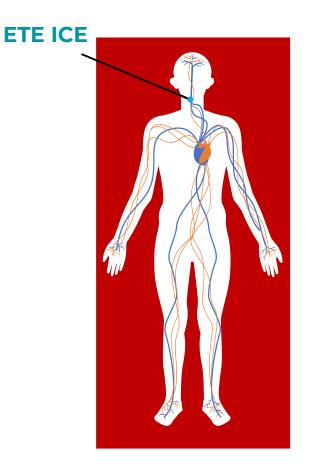
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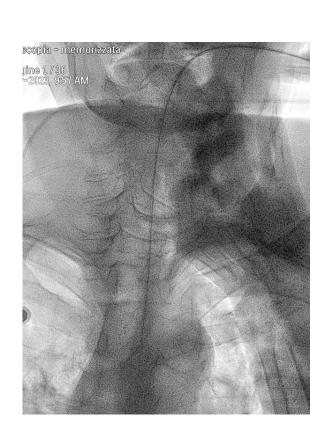
# ICE peri op

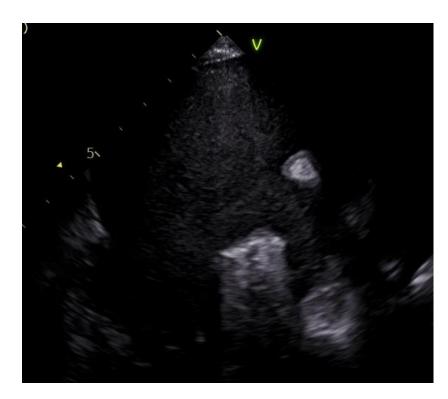
ICE probe (AcuNav soundstar 8 Fr) transoral

#### **Pre Medication**

- Floroglucina/trimetossibenzene
- Metoclopramide 10 mg
- Midazolam 4 mg

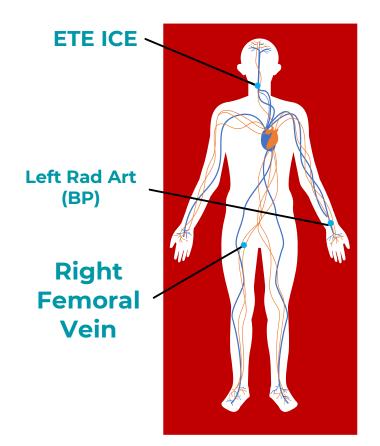


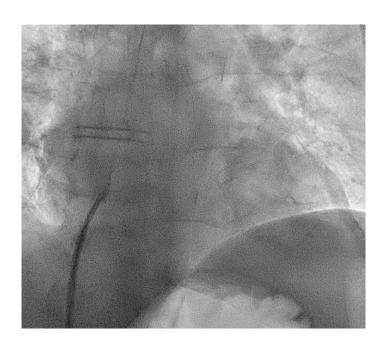




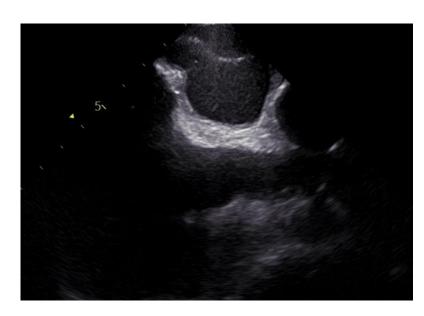


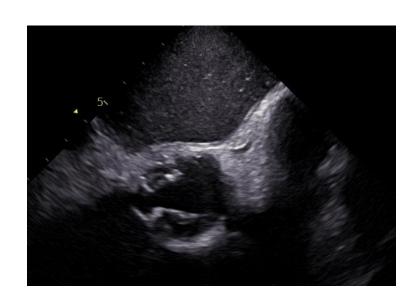
# Trans Septal Puncture











- Aspirin 250 mg i.v.
- Heparin 5000 UI i.v.

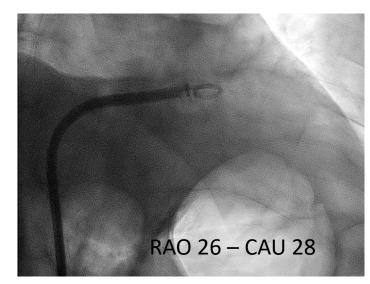
# **Sizing**

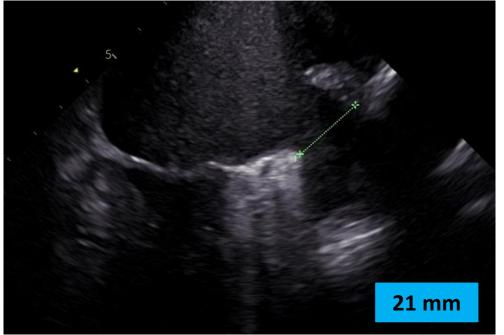
BP (AO): 90/60 mmHg BP (LA): 8/2 (5) mmHg

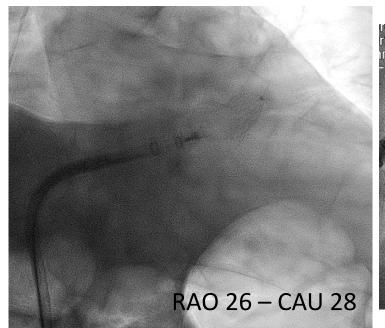
### **Fluid Challenge**

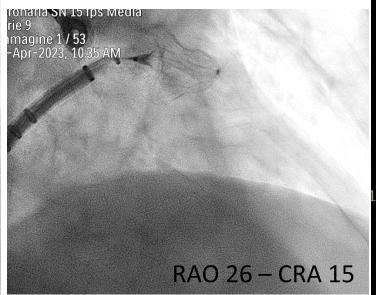
- LAA Ostium 21 mm
- Watchmen FLX 27 mm

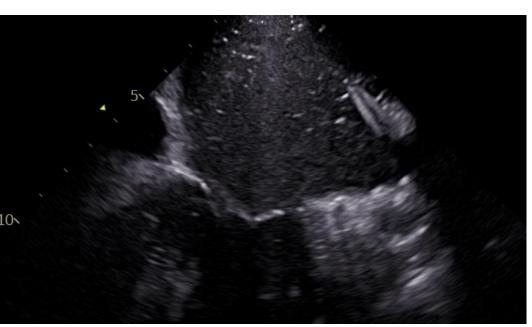


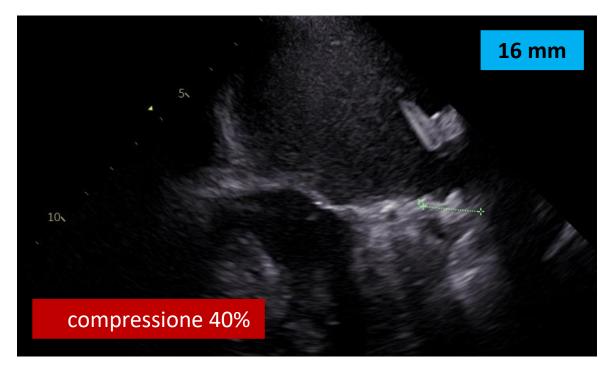






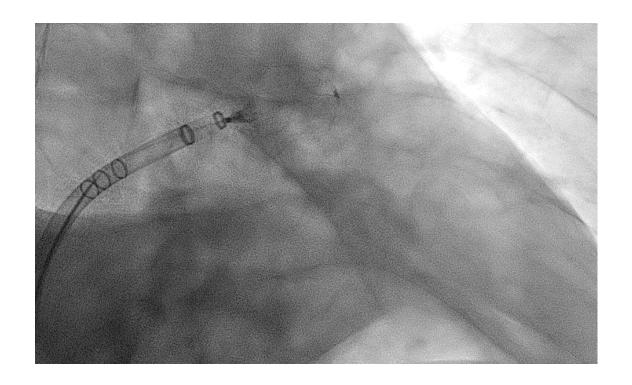






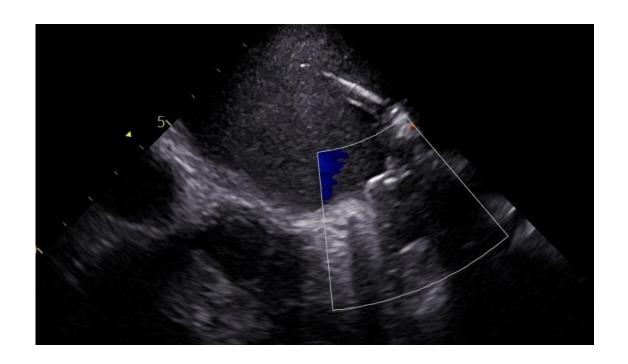
- **Position**
- Anchoring
- Sizing
- Sealing

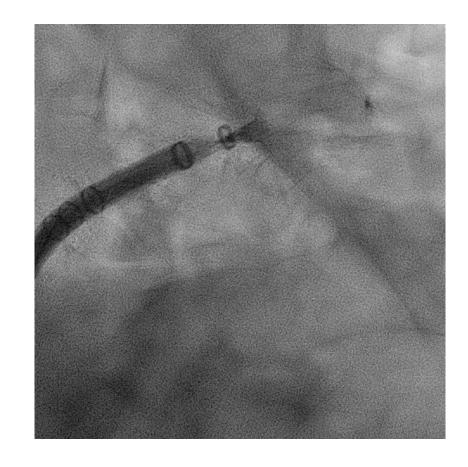






- **Position**
- Anchoring
- Sizing
- Sealing





## Post Op:

- Plavix 600 mg per os

3<sup>rd</sup> day discharge No complications

1 month DAPT → SAPT (clopidogrel)

# **Conclusions**

- ICE probe transoral monitoring is a valid alternative to standard transoral echo imaging
- This technique allows perioperative imaging even in non intubable patients
- In centers where ICE is already available, this technique could result in procedural time optimization and better resource management

# RCTs and cost-effectiveness analysis are required to validate said technique

At the moment, transoral ICE usage is off label

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