

Latest clinical update on Watchman LAAC and why and when I use Watchman in my clinical practice.

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Speaker's name : Gary Shing-Him CHEUNG

✓ I have the following potential conflicts of integes t 」」 togreport:

I am a physician proctor for Watchman (Boston Scientific) and Amulet (Abbott) LAAO devices.



• I was frequently asked by a question.

"What is your favourite LAAO device? How to choose the LAAO device for the patient?"

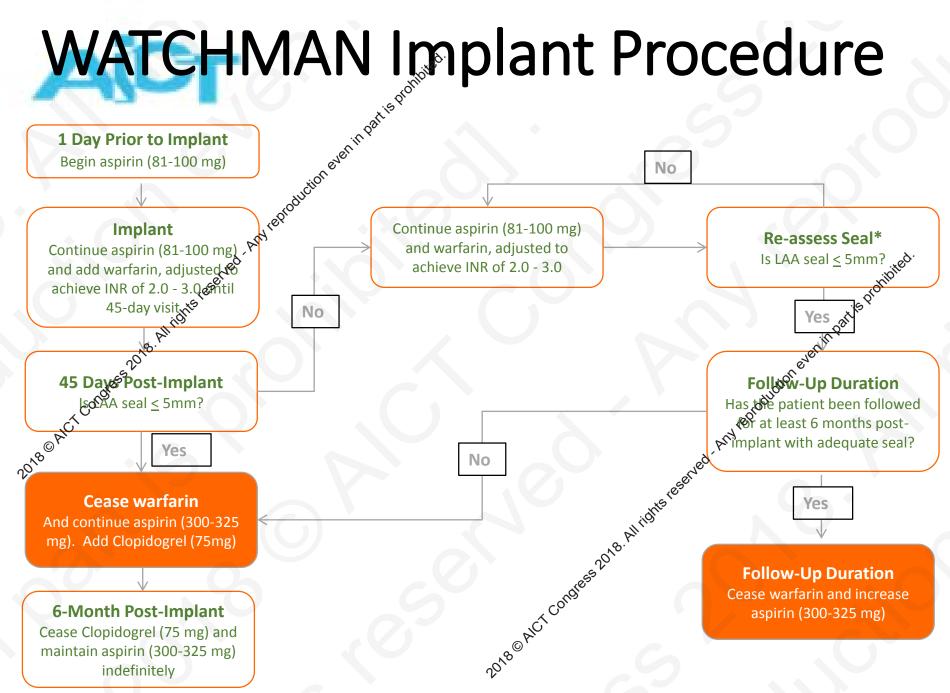
January Concerns over Watchman LAAO device

- 1. Post LAAO anticoagulation regime: The patient must take warfarin?
- 2. LAAO morphology: chicken-wing, short and shallow.



Post LAAO

To anticoagulation regimee



Registry on WATCHMAN Qutcomes in Real-Life Utilization: EWOLUTION



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Collect real-world WATCHMAN LAAO experience outside of selected populations in prior RCT

Study Design: (1985)

Prospective, single-arm, multi-center registry of the Watchman LAA Closure Technology

Primary Endpoint:

Primary analysis includes procedural success and safety, incidence of stroke, bleeding, and death after 2 yr of FU Investigator and Medical Safety Group for adjustication

Patient Population:

>1000 patients

Number of Sites:

47 throughout Europe, Russia and Middle East

Enrollment:

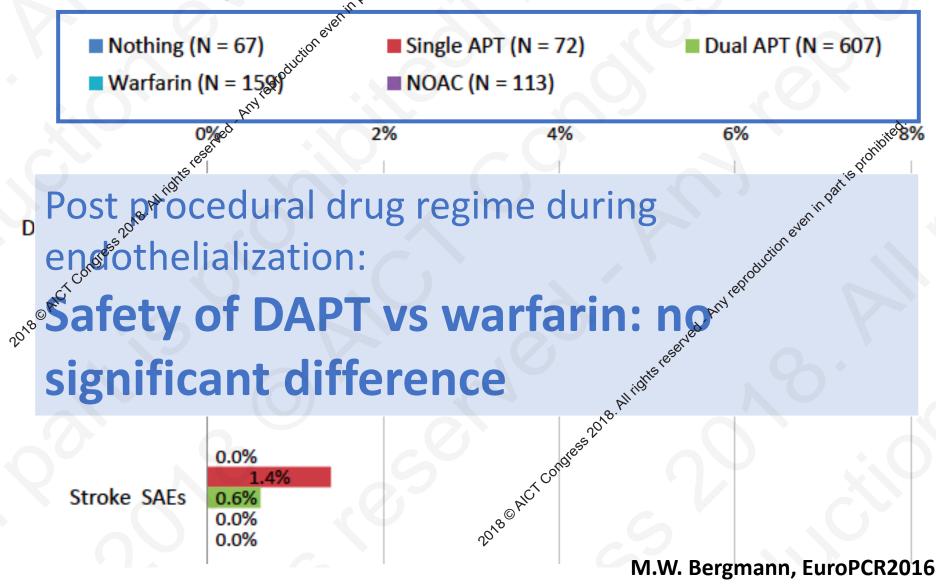
Started October 2013 - Completed May 2015

Follow-up:

Standard practice at participating centers

- Normally 1-3 months post-procedure
- Annually thereaster for a total of 2 years

Impact of post-procedural anticoagulation — 3-months data



ASAP-TOO (NCT02928497): Overview



Study Objective

Study Design

Primary Endpoint

Patient Population

Number of Sites

Follow-up*

sevaluate LAA Closure with WATCHMAN in NVAF patients deemed not suitable for oral anti-coagulation therapy

Prospective, multi-center

Randomized 2:1 (Watchman vs Control)

Effectiveness Endpoint

Time to first occurrence of ischemic stroke or systemic embotism

Safety Endpoint

7-day rate of all-cause death, ischemic stroke, systemic embolism, or device- or procedure- related events requiring open cardiac surgery or major endovascular intervention

888

100 global sites

- 3 month with TEE
- 6,18 month phone visit
- 12 month with TEE
- Bi-annually for years ₹-5

dess 2018

201

ASAP-TOO Device Group Medication Taggited.



Visit Interval	Aspirin	Clopidogrel*	
Discharge through of the state	Yes, suggested dose: 75- 100mg	Yes Suggested dose: 75mg ^{(i)ited}	
3-month visit through 12-month visit	Yes, suggested dose: 75- 100mg	No, unless other andication	
Following the 12-month visit	No, unless other indication	No, upless other indication	

^{*}Clopidogrel may be substituted with ticagrelor or prasugrel if the subject which is the medication for other indications (e.g. acute coronary syndromes treated with drug eluting sterns) or if the subject has a known resistance to clopidogrel.

^{**}Patients are allowed to be on dual antiplatelet therapy (outside of the protocol required 3- months period) in indicated due to a condition other than WATCHMAN implantation.



Watchman LAAO in Chicken-wing LAA

Morphology





Width 20 Depth 21

Width 21 Depth 20 2018

Width 21 Depth 15 Width 19 Depth 12





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Jack Inne LAAgram

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WATCHMAN FLX™ Design



WATCHMAN FT



Wider Treatment Range LAA ostium diameters:

14mm - 31.5mm

Min LAA depth: ½ device width

LAA Conformance 18 struts for enhanced LAA apposition and sealing



- **Shallow Access** Closed distal end for shallow

WATCHMANTM



DESIGN **GOALS**

FLEXIBILITY: Treat more patient anatom Arc Congress 2008.

NTROL: Improved maneuverability.

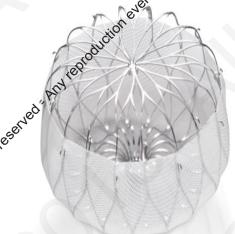
Caution: The WATCHMAN FLX™ Left Atrial Appendage Closure Device is an investigational device and is not

PINNACLE FLX IDE Study

US-only IDE

- Single arm non-randomized study design
 - DOAC only options for post-implant drug regimen
 - Non-inferiority to performance goal based on WATCHMAN 2.5,000
- Up to 490 enrollménts (includes 90 roll-ins)
- Up to 45 US sites
- other of one of the following events between the simple of implant and within 7 days following the procedure or by hospital discharge, whichever is later: all-cause death, ischemic stroke, systemic embolism or device- or procedure- related events require cardiac surgery or major endors such as pseudoant other. The occurrence of one of the following events between
 - Primary Effectiveness Endpoint
 - The rate of effective LAA closure defined as any peridevice flow < 5mm demonstrated by TEE at 12 months (US) (US)
 - Secondary Endpoints
 - The occurrence of ischemic stroke or systemic embolism at 24 months from the time of enrollment
 - Follow-up at 45 days, 6, 12, 18 and 24 months







Coriclusion

• Post LAAO anticoagulation regime by DAPT apparently as effective and safe as standard post Watchman regime; undergoing RCT will definitely answer this issue.

LAAO by Watchman device is also feasible in difficult LAA anatomy, like chicken-wing morphology.

• Newer generation of Watchman. Watchman Flx 2.5 will be available soon

ASIA Practific Congenital and Structural Heart Intervention Symposium

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