

# Shared Decision-Making Guide for Left Atrial Appendage Occlusion (LAAO) Using Amplatzer<sup>TM</sup> Amulet<sup>TM</sup> Left Atrial Appendage Occluder Device

Patient-centered shared decision-making occurs when a healthcare provider and a patient work together to assess treatment modalities and make the optimal decision tailored to the patient's treatment goals, lifestyle, and current health status. The Centers for Medicare & Medicaid Services emphasizes the criticality of this process while determining the eligibility for the Left Atrial Appendage Occlusion (LAAO) procedure.<sup>1</sup>

This document is a step-by-step guide that walks you through a shared decision-making process with patients who could be eligible for the LAAO procedure using the Amplatzer<sup>TM</sup> Amulet<sup>TM</sup> Left Atrial Appendage Occluder\*.

Please note that the ultimate decision to determine the eligibility for LAAO procedure is at the discretion of the healthcare provider and patient. This guidance should not be considered a formal documentation of shared decision making; evidence of formal shared decision making must be documented in the patient's medical records.

Patients with Non-Valvular Atrial Fibrillation (NVAF) should meet all - three criteria below to be eligible for the LAAO procedure<sup>1</sup>:

C	riteria	Specifications	
I	Suitable for short-term warfarin therapy but deemed unable to take long-term oral anticoagulation (OAC) therapy	Refer to Step 1 below to determine whether the patient is unable to take long-term OAC (lifestyle, bleeding risk, other complications)  Step 3 (HAS-BLED score) could be utilized if eligibility is due to bleeding risk	
II	Patient's stroke risk: $CHA_2DS_2$ -VASc $\geq$ <b>3</b> or $CHADS_2 \geq$ <b>2</b>	Refer to Step 2 below (patient's score should be documented to show the annual stroke risk)	
III	<b>Documented</b> evidence of formal interaction between the patient and an independent non-interventional physician using an OAC evidence-based decision tool.	Non-interventional cardiologists, primary care providers, and neurologists caring for stroke patients are examples of non-interventional physicians.	

# Medication adherence and monitoring compliance:

Click and type the answer in the cell below the question.

- History of poor adherence to oral anticoagulants (i.e., missed doses)?
- Inability to maintain stable INR?
- Inability to comply with regular INR monitoring and/or unavailability of an alternative OAC for the patient (include any medical or lifestyle-specific factors such as dementia or transportation access)?

Step 2. Calculate and record the patient's CHA<sub>2</sub>DS<sub>2</sub>-VASc and CHADS<sub>2</sub> scores using the tables below.<sup>2,5</sup> CHADS<sub>2</sub> refers to the first 5 factors included in the table.<sup>3,5</sup>

Conc	lition	CHA <sub>2</sub> DS <sub>2</sub> -VASc Possible Points	CHADS₂ Possible Points	Your Input (CHA₂DS₂-VASc)	Your Input (CHADS₂)
С	Congestive heart failure	1	1		
Н	Hypertension (Resting BP > 140/90 mmHg on at least 2 occasions or current antihypertensive pharmacologic treatment)	1	1		
Α	Age ≥ 75 years	2	1		
D	Diabetes mellitus	1	1		
S	Prior stroke, TIA, or thromboembolism	2 (if any is present)	2		
V	History of vascular disease (PAD, MI, or aortic plaque)	1	N/A		N/A
Α	Age 65-74 years	1	N/A		N/A
Sc	Sex Category (Female)	1 (0 for male)	N/A		N/A
Patient's Scores		Max score: 9	Max score: 6		

Using the tables below, determine and document the annual stroke risk (Use **both** CHA<sub>2</sub>DS<sub>2</sub>-VASc and CHADS<sub>2</sub> scores).<sup>3,5</sup>

Click in the cell below to enter text.

CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	Annual Stroke Risk (%)
0	0
1	1.3
2	2.2
3	3.2
4	4.0
5	6.7
6	9.8
7	9.6
8	12.5
9	15.2

CHADS₂ Score	Annual Stroke Risk (%)
0	1.9
1	2.8
2	4.0
3	5.9
4	8.5
5	12.5
6	18.2

**Step 3.** Calculate and record the patient's HAS-BLED score to determine the risk of major bleeding using the tables below. The patient's eligibility reasons may or may not include the risk of major bleeding, however, discussing this risk is vital for shared decision-making.

Click in the cell below to enter text.

Con	dition	Possible Points	Your Input
н	Hypertension (Uncontrolled BP, >160 mmHg systolic, or current antihypertensive pharmacologic treatment)	1	
Α	Abnormal renal (Dialysis, transplant, Cr >2.26 mg/dL or >200 μmol/L)  OR  Liver function (Cirrhosis or bilirubin >2x normal with AST/ALT/AP >3x normal)	1 point for each (max 2)	
S	Stroke history	1	
В	Bleeding history or predisposition to bleeding	1	
L	Labile INR (Unstable/high INRs, time in therapeutic range <60%)	1	
E	Elderly (age > 65 years)	1	
D	Current drugs (e.g. Aspirin, clopidogrel, NSAIDs)  OR  Alcohol use (1 point for drug and 1 point for alcohol use ≥8 drinks/week)	1 point for each (max 2)	
Pati	ent's HAS-BLED Score	Max score: 9	

HAS-BLED Score	Yearly Major Bleeding Risk (%)
0	1.13
1	1.02
2	1.88
3	3.74
4	8.70
5+	12.5

## **Rx Only**

# **Important Safety Information**

#### AMPLATZER™ AMULET™ LEFT ATRIAL APPENDAGE OCCLUDER

#### **Indication for Use**

The Amplatzer $^{TM}$  Amulet $^{TM}$  Left Atrial Appendage Occluder is a percutaneous transcatheter device intended to reduce the risk of thrombus embolization from the left atrial appendage (LAA) in patients who have nonvalvular atrial fibrillation and who are at increased risk for stroke and systemic embolism based on CHADS<sub>2</sub> or CHA<sub>2</sub>DS<sub>2</sub>-VASc scores, are suitable for short term anticoagulation therapy, and have appropriate rationale to seek a non-pharmacologic alternative to oral anticoagulation, taking into consideration the safety and effectiveness of the device.

#### **Contraindications**

The Amplatzer<sup>TM</sup> Amulet<sup>TM</sup> Left Atrial Appendage (LAA) Occluder is contraindicated for patients:

- With the presence of intracardiac thrombus.
- With active endocarditis or other infections producing bacteremia.
- Where placement of the device would interfere with any intracardiac or intravascular structures.

#### **Potential Adverse Events**

Potential adverse events associated with the device or implant procedure include, but are not limited to, the following: Air embolism; Airway trauma; Allergic reaction; Anemia; Anesthesia reaction (nausea, vasovagal reaction, confusion/altered mental status or other); Arrhythmia; Atrial septal defect; Bleeding; Cardiac arrest; Cardiac tamponade; Chest pain/discomfort; Congestive heart failure; Death; Device embolization; Device erosion; Device malfunction; Device migration; Device-related thrombus; Fever; Hematuria; Hypertension/hypotension; Infection; Multi-organ failure; Myocardial infarction; Perforation; Pericardial effusion; Pleural effusion; Renal failure/dysfunction; Respiratory failure; Seizure; Significant residual flow; Stroke; Thrombocytopenia; Thromboembolism: peripheral and pulmonary; Thrombus formation; Transient ischemic attack; Valvular regurgitation/insufficiency; Vascular access site injury (hematoma, pseudoaneurysm, arteriovenous fistula, groin pain or other); Vessel trauma/injury.

**CAUTION:** This product is intended for use by or under the direction of a physician. Prior to use, reference the Instructions for Use, inside the product carton (when available) or at <a href="mailto:wascular.eifu.abbott/manuals.for">wascular.eifu.abbott/manuals.for</a> more detailed information on Indications, Contraindications, Warnings, Precautions and Adverse Events. This material is intended for use with healthcare professionals only.

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#### References

- 1. CMS National Coverage Determination. Percutaneous Left Atrial Appendage Closure (LAAC). Available at <a href="https://www.cms.gov/medicare-coverage-database/view/ncd.aspx?NCDId=367">https://www.cms.gov/medicare-coverage-database/view/ncd.aspx?NCDId=367</a>
- 2. Lip GY, Nieuwlaat R, Pisters R, Lane DA, Crijns HJ. Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation. Chest. 2010;137(2):263-272. doi:10.1378/chest.09-1584
- 3. Tarek Ajam, M. (2023, June 30). CHADS2 score for stroke risk assessment in atrial fibrillation. CHADS2 and CHA2DS2-VASc Score for Stroke Risk Assessment in Atrial Fibrillation. https://emedicine.medscape.com/article/2172597-overview
- 4. Pisters R, Lane DA, Nieuwlaat R, de Vos CB, Crijns HJ, Lip GY. A novel user-friendly score (HAS-BLED) to assess 1-year risk of major bleeding in patients with atrial fibrillation: the Euro Heart Survey. Chest. 2010;138(5):1093-1100. doi:10.1378/chest.10-0134
- 5. Gažová A, Leddy JJ, Rexová M, Hlivák P, Hatala R, Kyselovič J. Predictive value of CHA2DS2-VASc scores regarding the risk of stroke and all-cause mortality in patients with atrial fibrillation (CONSORT compliant). Medicine (Baltimore). 2019;98(31):e16560. doi:10.1097/MD.00000000016560

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