STRUCTURE IN THE INSTITUTIONAL REPOSITORY

- **Title:** Clinical Practice Guideline for Evaluation and Management of patients with Severe Aortic Stenosis
- Author: Peru. EsSalud Social Security. Health Technology Assessment and Research Institute (IETSI in Spanish)
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• Abstract:

• **Background:** This paper abstracts the Clinical Practice guideline (CPG) for Evaluation and Management of patients with Severe Aortic Stenosis in the Peruvian Social Security (EsSalud).

Objective: to provide evidence-based clinical recommendations for Evaluation and Management of patients with Severe Aortic Stenosis in EsSalud.

Methods: a guideline task force (GTF) was formed with cardiologists, cardiovascular and thoracic surgeons; and methodologists. The group proposed 7 clinical questions to be answered in this Clinical practice guideline (CPG). Systematic searches of preview reviews were performed and when it was necessary, primary studies from PubMed and CENTRAL during 2018 were reviewed. The evidence was selected aiming to answer each proposed question. Certainty of evidence was evaluated using Grading of Recommendations Assessment, Development, and Evaluation (GRADE) methodology. In periodical work sessions, the group used GRADE methodology for reviewing the evidence and formulating recommendations, good clinical practice items and the flowchart of management. Finally, the CPG was approved by Resolution Nº 007-IETSI-ESSALUD-2018.

Results: This CPG approached seven clinical questions, divided into two topics: initial evaluation and management. Based on these questions; one strong recommendation, eight weak recommendations, 16 good clinical practice items and one flowchart were formulated.

• **Conclusion:** This paper abstracts the methodology and evidence-based conclusions of the CPG for Evaluation and Management of patients with Severe Aortic Stenosis in EsSalud.

Key words: Practice Guideline, GRADE Approach, Severe Aortic Stenosis

• PICO questions for CPG:

DIAGNOSIS			
Question 1: In patients with aortic stenosis, what severity classification system should be used?			
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)
- Patients with aortic stenosis	-	-	- Classification systems for aortic stenosis associated with mortality
- Patients with aortic stenosis	- Comparison of different classification systems for aortic stenosis	- Comparison of different classification systems for aortic stenosis	- Mortality

	MANAGEMENT			
Question 2: In patients with severe aortic stenosis, which surgical risk score should be used:				
STS or EuroSCORE II?	INITEDVENITION	COMPARATOR	OLITCOME(S)	
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S) - Prediction of	
- Patients with severe aortic	- STS	- EuroSCORE II		
stenosis			post-operatory	
undergoing SAVR			mortality	
or TARV				
indistinctly				
- Patients with	- STS	- EuroSCORE II	- Prediction of	
severe aortic			post-operatory	
stenosis			mortality	
undergoing			,	
SAVR				
- Patients with	- STS	- EuroSCORE II	- Prediction of	
severe aortic			post-operatory	
stenosis			mortality	
undergoing ARV				
* ** * *	ents with severe asymn	l tomatic aortic stenosis,	should portic valve	
· ·	• •	it for the patient to dev		
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)	
- Patients with severe	- Early aortic valve	- Conservative	- Mortality	
asymptomatic aortic	replacement	management	- Cardiovascular	
stenosis	replacement	management	mortality	
	nts with severe sympto	matic aortic stenosis, s	, , , , , , , , , , , , , , , , , , ,	
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valve replacement (SAVR) or transcatheter aortic-valve replacement (TAVR) be performed?				
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)	
- Patients with severe	- Transcatheter	- Surgical aortic valve	- 30-days mortality	
symptomatic aortic	aortic-valve	replacement (SAVR)	- Late mortality	
stenosis and low	replacement (TAVR)		- Stroke	
surgical risk			- Myocardial infarction	
			- Acute kidney injury	
			- Major vascular	

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POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)
- Patients who are	- TF-TAVR	- TSc- TAVR (trans-	- 30-days mortality
candidates for TARV	(transfemoral	subclavian	- Mortality per year
	transcatheter aortic valve replacement)	transcatheter aortic valve replacement)	- Major complications after 30 days
			- Acute kidney injure after 30 days.
- Patients who are	- TF-TAVR	- TA- TAVR (trans-	- 30-days mortality
candidates for TARV	(transfemoral	apical transcatheter	- Mortality per year
	transcatheter aortic valve replacement)	aortic valve replacement)	- Vascular
	valve replacement)	replacement	complications
			- Acute kidney injure
			- New Pacemaker
			implantation
			- Bleeding after 30
			days

Question 6: In patients with severe aortic stenosis in whom TAVR is decided, who also have severe coronary artery disease (CAD), should percutaneous coronary intervention be performed?

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POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)

- Patients who are	- TAVR and	- TAVR without	- 30-days mortality
candidates for TARV	percutaneous coronary	percutaneous coronary	- Cardiovascular
and have CAD	intervention	intervention	mortality
			- 6-months to 1-year mortality
			- Main vascular
			complications at
			the access site.
			- Renal failure
- Patients who are	- Concomitant TAVR	- TAVR with prior	- 30-days mortality
candidates for TARV and have CAD	and percutaneous coronary intervention	percutaneous coronary intervention	- Cardiovascular mortality
			- 6-months to 1-year mortality
			- Main vascular
			complications at
			the access site.
			- Renal failure

Question 7: Should a Heart Team be formed to decide the management of the patient with severe aortic stenosis?

POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)
- Patients with severe	- Evaluation by the	- No evaluation by the	- Mortality
aortic stenosis	Hear team to decide	Heart Team	- Quality of life
	the intervention		- Complications
	(TARV or SAVR)		