STRUCTURE IN THE INSTITUTIONAL REPOSITORY

- **Title:** Clinical Practice Guideline for Evaluation and Management of patients with Severe Aortic Stenosis
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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 N^o 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?						
 Patients with severe aortic stenosis undergoing SAVR or TARV indistinctly 	- STS	- EuroSCORE II	 Prediction of post-operatory mortality 			
 Patients with severe aortic stenosis undergoing SAVR 	- STS	- EuroSCORE II	 Prediction of post-operatory mortality 			
 Patients with severe aortic stenosis undergoing ARV 	- STS	- EuroSCORE II	 Prediction of post-operatory mortality 			
Question 3: In pati	ents with severe asymp	tomatic aortic stenosis,	, should aortic valve			
replacement be	performed early or wa	it for the patient to dev	elop symptoms?			
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)			
 Patients with severe asymptomatic aortic stenosis 	- Early aortic valve replacement	- Conservative management	 Mortality Cardiovascular mortality 			
Question 4: In patie	ents with severe sympto	omatic aortic stenosis, s	hould surgical aortic			
valve replaceme		eter aortic-valve replace	ement (TAVR) be			
performed?						
POPULATION	INTERVENTION	COMPARATOR	OUTCOME(S)			
 Patients with severe symptomatic aortic stenosis and low surgical risk 	- Transcatheter aortic-valve replacement (TAVR)	- Surgical aortic valve replacement (SAVR)	 30-days mortality Late mortality Stroke Myocardial infarction Acute kidney injury Major vascular 			

valve replacement) - TF-TAVR (transfemoral transcatheter aortic valve replacement)	valve replacement) - TA- TAVR (trans- apical transcatheter aortic valve replacement)	after 30 days - Acute kidney injure after 30 days. - 30-days mortality - Mortality per year - Vascular complications - Acute kidney injure - New Pacemaker implantation - Bleeding after 30
		after 30 days - Acute kidney injure after 30 days.
- TF-TAVR (transfemoral transcatheter aortic	- TSc- TAVR (trans- subclavian transcatheter aortic	 30-days mortality Mortality per year Major complications
INTERVENTION	COMPARATOR	OUTCOME(S)
	nosis in whom TAVR is	decided, what should
aortic-valve replacement (TAVR		 2-years mortality 3-years mortality 5-years mortality
- Transcatheter	- Standard treatment	 ischemic attack Myocardial infarction Acute kidney injury Major vascular complications Major bleeding 12-months mortality
- Transcatheter aortic-valve replacement (TAVR)	- Surgical aortic valve replacement (SAVR)	 Moderate or severe aortic regurgitation 30-days mortality Late mortality (1 year, 3 years and 5 years) Stroke y transient
- Transcatheter aortic-valve replacement (TAVR)	- Surgical aortic valve replacement (SAVR)	pacemaker implantation. - 30-days mortality - 12-months mortality - Stroke - Myocardial infarction - Acute kidney injury - Major bleeding - Pacemaker implantation
	aortic-valve replacement (TAVR) - Transcatheter aortic-valve replacement (TAVR) - Transcatheter aortic-valve replacement (TAVR) s with severe aortic ster roach for TARV INTERVENTION - TF-TAVR (transfemoral transcatheter aortic	aortic-valve replacement (TAVR) replacement (SAVR) - Transcatheter aortic-valve replacement (TAVR) - Surgical aortic valve replacement (TAVR) - Transcatheter aortic-valve replacement (TAVR) - Standard treatment aortic-valve replacement (TAVR) - Standard treatment

- 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 percutaneous	percutaneous coronary	- Cardiovascular				
and have CAD	coronary intervention	intervention	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)						