

## AORTIC VALVE STENOSIS - SEVERITY

	<b>Aortic sclerosis</b>	<b>Mild</b>	<b>Moderate</b>	<b>Severe</b>
Aortic jet velocity (m/s)	$\leq 2.5$ m/s	2.6 – 2.9	3.0 – 4.0	$> 4.0$
Mean gradient		$<20$ ( $<30$ a)	20- 40 b (30-50 a)	$> 40$ b ( $>50$ a)
AVA (cm <sup>2</sup> )		$> 1.5$	1.0 – 1.5	$<1$
Index AVA (cm <sup>2</sup> /m <sup>2</sup> )		$>0.85$	0.60 – 0.85	$<0.6$
Velocity ratio		$>0.50$	0.25 – 0.50	$<0.25$

a – ESC guidelines, b – AHA/ACC guidelines

## AORTIC REGURGITATION - SEVERITY

	<b>Mild</b>	<b>Moderate</b>	<b>Severe</b>
Specific signs for AR severity	Central jet width $< 25\%$ of LVOT  Vena Contracta $< 0.3$ cms <sup>2</sup>  No or brief early diastolic flow reversal in descending aorta	Signs for AR mild present but no criteria for severity	Central jet width $\geq 65\%$ of LVOT  Vena contracts $> 0.6$ cm <sup>2</sup>
Supportive signs	Pressure half time $> 500$ ms  Normal LV size	Intermediate values	Pressure half time $< 200$ ms  Holodiastolic aortic flow reversal in descending aorta  Moderate or greater LV enlargement

	<b>Reference value</b>	<b>Mild</b>	<b>Moderate</b>	<b>Severe</b>
R Vol. ml /beat	$<30$	30 - 44	45 - 59	$\geq 60$
RF %	$< 30$	30 - 39	40 - 49	$\geq 50$
EROA cm <sup>2</sup>	$< 0.10$	0.10 to 0.19	0.20 - 29	$\geq 0.30$

EROA - effective regurgitant orifice area , RF – regurgitant fraction, LV – Left Ventricle, LVOT – Left ventricular outflow tract

