

F.7 Mitral regurgitation – regurgitant volume on cardiac MRI

Table 20: Clinical evidence profile: MR volume on cardiac MRI

Quality assessment							No of patients		Effect	Quality
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Mitral valve regurgitant volume on cardiac MRI	Control	Relative (95% CI)	
MR volume per 10 ml for predicting all-cause mortality - adjusted (asymptomatic moderate or severe MR) (follow-up median 5 years)										

1	cohort studies	very serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	258		HR 1.10 (1.05 to 1.15)	⊕⊕⊕⊕ LOW
MR volume per 10 ml for predicting indication for surgery - adjusted (asymptomatic moderate or severe MR) (follow-up median 5 years)										
1	cohort studies	very serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	258		HR 1.23 (1.06 to 1.43)	⊕⊕⊕⊕ LOW
MR volume ≤55 ml vs >55 ml for predicting indication for surgery during follow-up - unadjusted (asymptomatic moderate or severe MR) (follow-up mean 2.5 years)										
1	cohort studies	very serious ¹	no serious inconsistency	no serious indirectness	no serious imprecision	none	80	29	HR 0.2 (0.09 to 0.45)	⊕⊕⊕⊕ LOW

¹ Downgraded by 1 increment if the majority of the evidence was at high risk of bias, and downgraded by 2 increments if the majority of the evidence was at very high risk of bias