

F.3 Aortic stenosis – coronary artery disease on cardiac CT

Table 16: Clinical evidence profile: coronary artery disease on cardiac CT

| Quality assessment | | | | | | | No of patients | | Effect | Quality |
|---|----------------|---------------------------|--------------------------|-------------------------|----------------------|----------------------|---------------------------------------|--------------|------------------------|------------------|
| No of studies | Design | Risk of bias | Inconsistency | Indirectness | Imprecision | Other considerations | Coronary artery disease on cardiac CT | Control | Relative (95% CI) | |
| Significant stenosis (>5 luminal diameter) of 1, 2 or 3 vessels or atheromatosis compared to normal coronary angiogram for predicting indication for AVR - unadjusted (Asymptomatic moderate-severe AS with no indication for AVR) (follow-up median 2.3 years) | | | | | | | | | | |
| 1 | cohort studies | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 36/85 (42.4%) | 7/19 (36.8%) | RR 1.15 (0.61 to 2.18) | ⊕○○○ VERY LOW |

| Significant stenosis (>50% luminal diameter) of 1, 2 or 3 vessels vs normal coronary angiogram or atheromatosis for predicting indication for AVR - unadjusted RR (Asymptomatic moderate-severe AS with no indication for AVR) (follow-up median 2.3 years) | | | | | | | | | | |
|--|----------------|---------------------------|--------------------------|---------------------------|----------------------|------|-------------|---------------|------------------------|------------------|
| 1 | cohort studies | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 16/32 (50%) | 27/72 (37.5%) | RR 1.33 (0.84 to 2.11) | ⊕○○○ VERY LOW |
| CAD >70% stenosis compared to ≤70% stenosis for predicting indication for AVR - unadjusted (asymptomatic mild-severe AS) (follow-up median 27 months) | | | | | | | | | | |
| 1 | cohort studies | very serious ¹ | no serious inconsistency | no serious indirectness | serious ² | none | 19 | 97 | HR 1.79 (0.93 to 3.44) | ⊕○○○ VERY LOW |
| Multivessel obstructive CAD compared to no multivessel obstructive CAD for predicting cardiac events - cardiac death, AVR, non-fatal myocardial infarction and HF requiring urgent hospitalisation - adjusted HR (asymptomatic mild-severe AS) (follow-up median 29 months) | | | | | | | | | | |
| 1 | cohort studies | very serious ¹ | no serious inconsistency | very serious ³ | serious ² | none | 11 | 53 | HR 2.7 (0.95 to 7.65) | ⊕○○○ VERY 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

² 95% CI crosses null line

³ Population - unclear whether there is uncertainty regarding indication for intervention in all patients, as includes mild-severe asymptomatic AS patients, with only 45% being asymptomatic severe; and outcome - composite of multiple outcomes specified in the protocol rather than being reported separately