

Quantitative assessment of stenosis degree

- CAD-RADS categories of the different coronary segments are based on the SCCT stenosis grading and coronary segmentation diagram (5).
All coronary arteries >1.5 mm diameter are graded for stenosis severity and the clinically most relevant stenosis has to be documented.
- CAD-RADS 1 category also includes the presence of plaque with positive remodeling but no stenosis.
- CAD-RADS 4 category is divided into two subcategories:
 - 4A = single or two-vessels disease with severe (70-99%) stenosis
 - 4B = in the left main $>50\%$ stenosis or three-vessel disease with $>70\%$ stenosis.
- In patients with CAD-RADS 4A the next step can be ICA or functional assessment.
In patients with CAD-RADS 4B ICA is recommended.

CAD-RADS categories			
Score	Stenosis	Interpretation	Further investigation
0	0%	Absence of CAD	None
1	1–24%	Minimal non-obstructive CAD	None
2	25–49%	Mild non-obstructive CAD	None
3	50–69%	Moderate stenosis	Consider functional assessment
4A	70–99% single or 2- vessel	Severe stenosis	Consider ICA or functional assessment
4B	Left main >50% or 3- vessel ≥70%		ICA
5	100%	Total coronary occlusion	Consider ICA and viability assessment
CadRads N	Non-diagnostic study	Obstructive CAD cannot be excluded	Additional evaluation needed