

Table S1 Detailed imaging acquisition information

Cohort and dataset	Scanner name	Number of scans	Type	KVP	In-plane pixel resolution (mm ²)
Internal Data-ISQ	GE HealthCare, Optima CT680 Series	9	Single-source, 64-row, 128-slice	100	0.38–0.49
	GE HealthCare, Revolution CT	110	Single-source, 256-row, 512-slice	100 or 120	0.36–0.59
	GE HealthCare, Revolution Maxima	26	Single-source, 64-row, 128-slice	100	0.49–0.53
	Philips Healthcare, iCT 256	67	Single-source, 128-row, 256-slice	120 or 140	0.33–0.56
	Philips Healthcare, Ingenuity Core 128	16	Single-source, 128-row, 256-slice	100 or 120	0.43–0.51
	Philips Healthcare, IQon Spectral CT	68	Double-source, 128-row, 256-slice	120	0.28–0.46
	Siemens Healthineers, SOMATOM Force	205	Double-source, 96-row, 192-slice	70, 80, 90, 100, 110, 120, 130	0.24–0.57
	Siemens Healthineers, SOMATOM Definition Flash	87	Double-source, 128-row, 256-slice	100 or 120	0.31–0.46
	Toshiba, Aquilion ONE	64	Single-source, 320-row, 640-slice	100 or 120	0.28–0.53
Internal Data-ISS	GE HealthCare, Optima CT680 Series	3	Single-source, 64-row, 128-slice	100	0.36–0.48
	GE HealthCare, Revolution CT	100	Single-source, 256-row, 512-slice	100 or 120	0.37–0.51
	GE HealthCare, Revolution Maxima	3	Single-source, 64-row, 128-slice	100	0.49
	Philips Healthcare, iCT 256	19	Single-source, 128-row, 256-slice	100 or 120	0.34–0.52
	Philips Healthcare, IQon Spectral CT	2	Double-source, 128-row, 256-slice	120	0.39
	Siemens Healthineers, SOMATOM Force	27	Double-source, 96-row, 192-slice	70, 80, 90, 100, 110, 120	0.27–0.43
	Siemens Healthineers, SOMATOM Definition Flash	45	Double-source, 128-row, 256-slice	100 or 120	0.34–0.47
	Toshiba, Aquilion ONE	36	Single-source, 320-row, 640-slice	100 or 120	0.31–0.49
	External Data-ESQ	Siemens Healthineers, SOMATOM Drive	256	Double-source, 128-row, 256-slice	80, 100, 120

ISQ, internal stenosis quantification; ISS, internal stent segmentation; ESQ, external stenosis quantification.

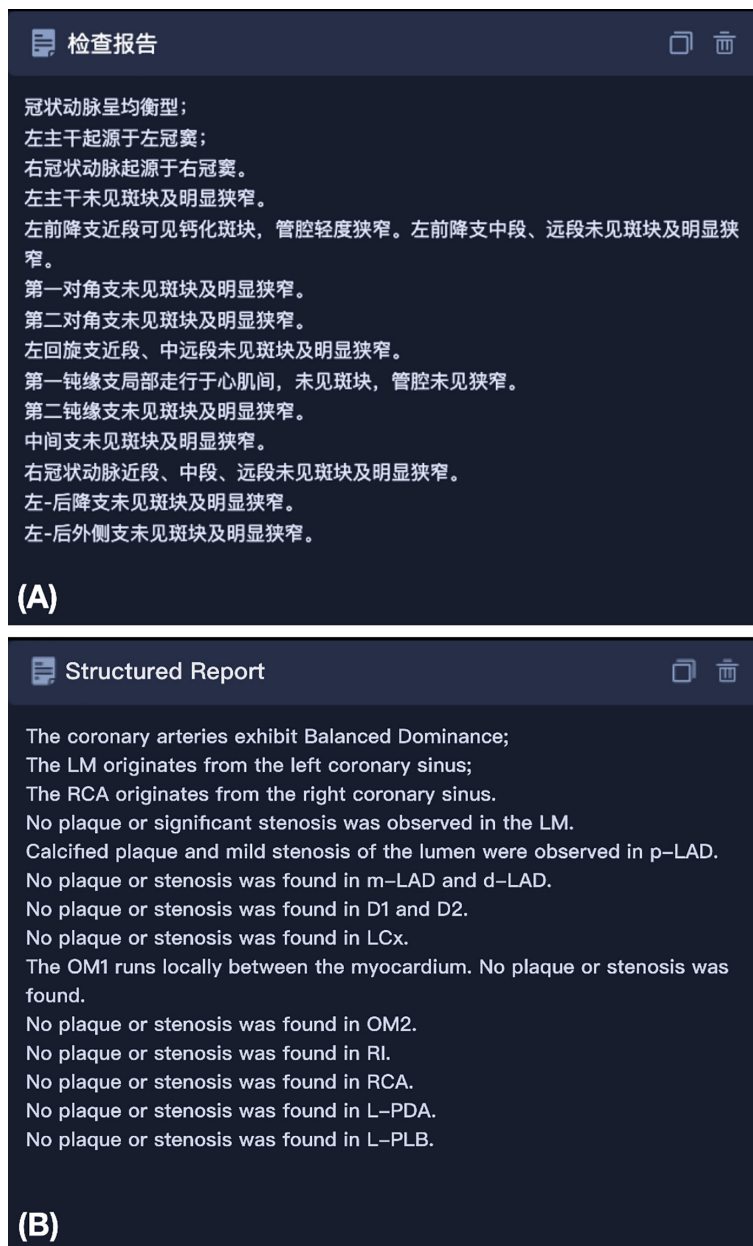


Figure S1 An AI-generated report example for a 73-year-old female with an LAD stenosis severity of CAD-RADS 2. (A) The content of AI-generated report, with the original Chinese version and (B) the corresponding English version. AI, artificial intelligence; CAD-RADS, Coronary Artery Disease Reporting and Data System; LM, left main artery; RCA, right coronary artery; LAD, left anterior descending artery; p-LAD, proximal-LAD; m-LAD, mid-LAD; d-LAD, distal LAD; D1, diagonal 1; D2, diagonal 2; LCx, left circumflex artery; OM1, obtuse marginal 1; OM2, obtuse marginal 2; RI, ramus intermedius; L-PDA, left posterior descending artery; L-PLB, left posterolateral branch.