

Feasibility and validity of CT-derived fractional flow reserve in patients with severe aortic stenosis: the CAST-FFR study

SUPPLEMENTAL MATERIAL

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**TABLE S1: SUBGROUP ANALYSIS OF DIAGNOSTIC PERFORMANCE OF CT-
FFR ACCORDING TO CT CALCIUM SCORE ON A PER VESSEL BASIS**

	Low calcium score	High calcium score	p value
n	30	30	
Mean calcium score, Agatston units	123.1 ± 94.2	735.3 ± 566.5	
Pearson's rank	0.85, p<0.0001	0.61, p = 0.0004	
True positive	7	10	
False positive	4	4	
True negative	16	13	
False negative	3	3	
Sensitivity %	70.0	76.9	
Specificity %	80.0	76.5	
PPV %	63.6	71.4	
NPV %	84.2	81.2	
Accuracy %	76.7	86.7	
ROC AUC (95% CI)	0.83 (0.67-0.98)	0.82 (0.66-0.99)	0.94

Values are presented as n (%) or mean ± SD. NPV; negative predictive value; PPV, positive predictive value;

ROC AUC, area under the receiver-operating characteristic curve.

**TABLE S2: SUBGROUP ANALYSIS OF DIAGNOSTIC PERFORMANCE OF CT-
FFR ACCORDING TO TOTAL CT CALCIUM SCORE ON A PER PATIENT BASIS**

	Low calcium score	High calcium score	p value
n	20	19	
Mean calcium score, Agatston units	514.8 ± 320.3	2277.1 ± 1518.7	
Pearson's rank	0.82 p<0.0001	0.63, p = 0.0037	
True positive	5	8	
False positive	2	3	
True negative	10	7	
False negative	3	1	
Sensitivity %	62.5	88.9	
Specificity %	83.3	70.0	
PPV %	71.4	72.7	
NPV %	76.9	87.5	
Accuracy %	75.0	78.9	
ROC AUC (95% CI)	0.77 (0.52-1.0)	0.80 (0.58-1.0)	0.84

Values are presented as n (%) or mean ± SD. NPV; negative predictive value; PPV, positive predictive value;

ROC AUC, area under the receiver-operating characteristic curve.