

Coronary Obstruction – Supplementary Material

TABLE S1 Contributing sites

<i>Site</i>	<i>Country</i>	<i>PI</i>	<i>n</i>
West China Hospital	China	Mao Chen, Yijian Li	10
Hamburg	Germany	Sebastian Ludwig, Dirk Westermann	10
Emory University Hospital	USA	Vasilis Babaliaros	9
Hospital Clinico Universitario Valladolid	Spain	Ignacio J. Amat Santos	8
Institute of Cardiology Warsaw	Poland	Lukasz Kalinczuk	7
MedStar Washington Hospital Center	USA	Ron Waksman	6
University of Bonn	Germany	Jan-Malte Sinning	6
Kokura Memorial Hospital	Japan	Shinichi Shirai, Tomohiro Kawaguchi	5
Kurashiki Central Hospital	Japan	Yasushi Fuku	5
St. Michael's Hospital	Canada	Asim Cheema	5
Hospital Da Santa Cruz	Portugal	Afonso Felix de Oliveira	3
Toyohashi Heart Center / Nagoya Heart Center	Japan	Masanori Yamamoto, Ai Kagase	3
Rabin Medical Center	Israel	Pablo Codner	2
Hospital Universitario Central De Asturias	Spain	Raquel Del Valle	2
GVI Buffalo	USA	Vijay Iyer	2
Hospital Clinico Universitario Virgen de la Victoria	Spain	Erika Muoz Garcia	2
Seoul National University Hospital	South Korea	Hyosoo Kim	1
National Taiwan University Hospital	Taiwan	Mao-Shin Lin	1
Florida Atlantic University	USA	Brij Maini	1
Lankenau Medical Center	USA	Roberto Rodriguez	1
San Raffaele Scientific Institute	Italy	Montorfano Matteo, Ancona Marco	1
Sendai Kosei Hospital	Japan	Norio Tada, Masaki Miyasaka	1
Westchester Medical Center	USA	Hasan Ahmad	1
Thomas Jefferson University Hospital	USA	Nicholas Ruggiero	1
McLaren Northern Michigan	USA	Jason Ricci	1

TABLE S2 Comparison after propensity-score matching

	<i>Obstruction (n=60)</i>	<i>No obstruction (n=60)</i>	<i>p-value</i>
Female	35 (58.3%)	35 (58.3%)	1.00
Age	79.6 ± 8.1	77.7 ± 9.5	0.23
Annulus area (mm ²)	415 ± 89	416 ± 88	0.97
Annulus perimeter (mm)	70.6 ± 13.7	72.3 ± 7.5	0.40
Coronary artery height (left) (mm)	10.8 ± 3.3	13.1 ± 2.5	0.001
Coronary artery height (right) (mm)	12.4 ± 1.7	14.5 ± 3.4	0.01
Sinus diameter (left) (mm)	29.8 ± 3.4	30.4 ± 3.5	0.43
Sinus diameter (right) (mm)	26.3 ± 2.6	28.8 ± 3.4	0.02
STJ height left (mm)	17.5 ± 2.9	21.2 ± 4.4	<0.001
STJ height right (mm)	17.8 ± 2.5	21.4 ± 4.4	<0.001
STJ diameter (mm)	26.2 ± 3.1	27.7 ± 2.6	0.009
Left Sinus – THV diameter (mm)	5 ± 3.2	6.6 ± 3.7	0.06
Right Sinus – THV diameter (mm)	2.7 ± 3.5	4.9 ± 3.6	0.06

TABLE S3 Univariate logistic model

<i>Left coronary</i>	<i>Odds ratio</i>	<i>95% CI</i>	<i>p-value</i>
Cusp height – coronary height	1.66	1.33-2.10	<0.0001
VTC	0.49	0.36-0.68	<0.0001
Leaflet calcium volume	1.00	1.00-1.01	0.01

<i>Right coronary</i>	<i>Odds ratio</i>	<i>95% CI</i>	<i>p-value</i>
Cusp height – coronary height	1.94	1.31-2.88	0.001
VTC	0.43	0.27-0.71	0.0008
Leaflet calcium volume	1.00	1.00-1.01	0.048

TABLE S4 Multivariate model using leaflet length

	<i>AUC</i>	<i>Sensitivity</i>	<i>Specificity</i>
Left	0.89	0.92	0.82
Right	0.89	0.77	0.93

Figure S1

Figure S1. Coronary height and Cusp height

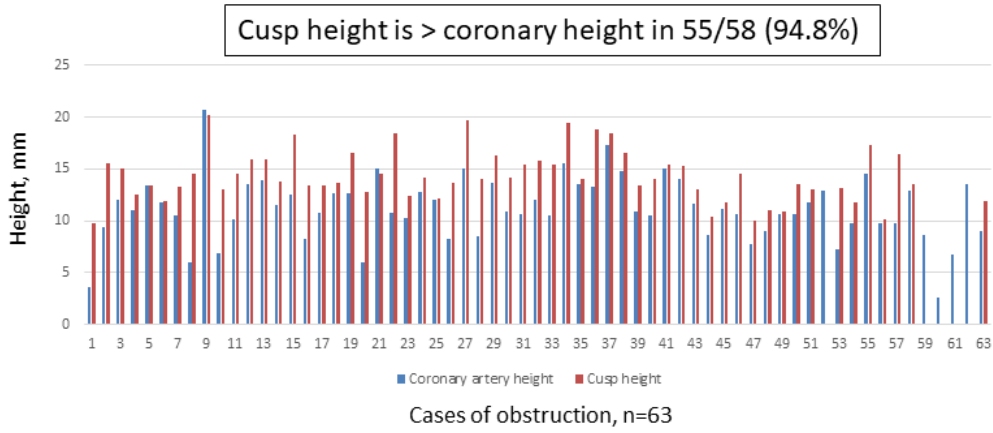


Figure S2

Figure S2. VTC and Leaflet Calcium Volume

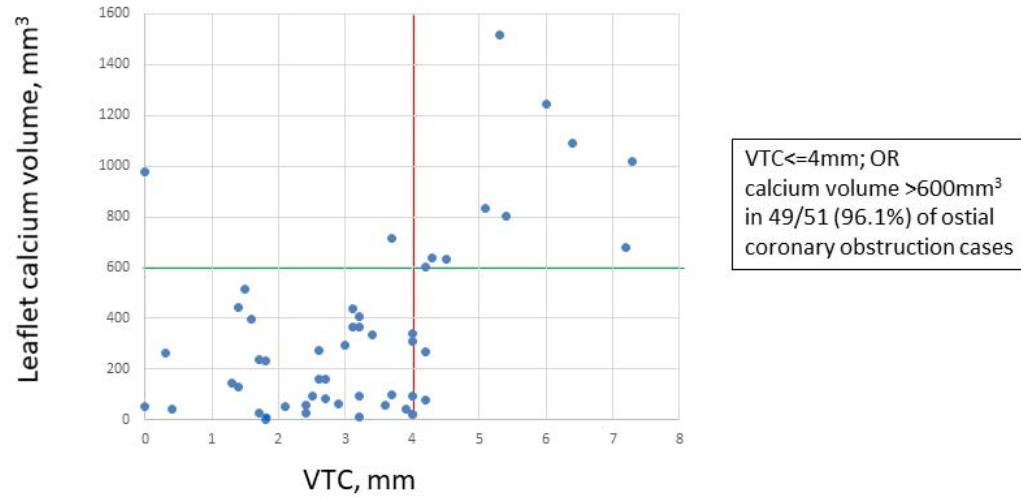


Figure S3

Figure S3. ROC curves for individual model parameters

