Supplemental Table 1: cTn methods and reference limits used at the local sites

at time of study enrollment.

Site	Assay	Local reference limit
Kaiser Permanente	Beckman Tnl	<0.04 ng/mL
University of Maryland	Beckman Tnl	<0.07 ng/mL
Washington University	Beckman Tnl	<0.07 ng/mL
Tufts University	Alere Tnl	<0.40 ng/mL
Baystate Medical Center	Roche TnT	<0.03 ng/mL
Massachusetts General Hospital	Roche TnT	<0.03 ng/mL

Supplemental Table 2: Comparison of sensitivity between cTn, sTnI, and hsTnI

at baseline, second, and third draws. Both sTnI and hsTnI were more sensitive

than local cTn at the first and second draws for A) ACS as well as B) UAP.

A)

Time point	Comparison	P value
Baseline	cTn vs sTnl	<0.001
Baseline	cTn vs hsTnl	<0.001
Second draw	cTn vs sTnl	<0.001
Second draw	cTn vs hsTnl	<0.001
Third draw	cTn vs sTnl	0.18
Third draw	cTn vs hsTnl	0.18

B)

Time point	Comparison	P value
Baseline	cTn vs sTnl	0.01
Baseline	cTn vs hsTnl	0.01
Second draw	cTn vs sTnl	0.03
Second draw	cTn vs hsTnl	0.03
Third draw	cTn vs sTnl	0.32
Third draw	cTn vs hsTnl	0.32

Supplemental Table 3: Associations between concentrations of A) sTnI and B)

hsTnI and presence or extent of epicardial CAD and coronary artery calcium in patients undergoing CTA considered as a function of the 99th percentile. Using this approach, a significantly number of subjects with CAD would be missed with either method.

A) sTnl

	sTnl <99 th percentile	sTnl ≥99 th percentile	P value
Calcium score, median [IQR]	0 [0-27]	213 [38-521]	<0.001
Any CAD	55.3%	90.0%	0.05
Stenosis >50%	18.7%	80.0%	<0.001
Stenosis >70%	12.0%	70.0%	<0.001

B) hsTnl

	hsTnI <99 th percentile	hsTnI ≥99 th percentile	P value
Calcium score, median [IQR]	0 [0-28]	111 [1.6-480]	0.003
Any CAD	55.4%	83.3%	0.07
Stenosis >50%	18.2%	75.0%	<0.001
Stenosis >70%	12.2%	58.3%	<0.001