

Supplementary Table E.1

Echogenicity

Overall

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.62	0.81	0.75	0.69	0.72	0.67	0.76	0.48	0.71	204	49	90	147	490
Center 1	0.44	0.86	0.69	0.68	0.68	0.62	0.74	0.42	0.65	115	19	54	42	230
Center 2	0.80	0.79	0.71	0.86	0.79	0.64	0.91	0.38	0.80	19	5	3	12	39
Center 3	0.73	0.59	0.73	0.59	0.68	0.58	0.77	0.61	0.66	23	16	16	44	99
Center 4	0.48	0.89	0.68	0.77	0.75	0.64	0.84	0.34	0.68	47	6	14	13	80
Center 5	0.92	0.00	0.92	0.00	0.86	0.71	0.95	0.93	0.46	0	3	3	36	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.37	0.84	0.34	0.85	0.75	0.67	0.82	0.19	0.60	97	19	17	10	143
Center 1	0.24	0.91	0.40	0.83	0.78	0.68	0.86	0.20	0.57	63	6	13	4	86
Center 2	0.33	1.00	1.00	0.83	0.85	0.55	0.98	0.23	0.67	10	0	2	1	13
Center 3	0.75	0.41	0.23	0.88	0.48	0.26	0.70	0.19	0.58	7	10	1	3	21
Center 4	0.67	0.85	0.40	0.94	0.83	0.61	0.95	0.13	0.76	17	3	1	2	23
Center 5	0.67	0.85	0.40	0.94	0.83	0.61	0.95	0.13	0.76	17	3	1	2	23

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.65	0.78	0.82	0.59	0.70	0.65	0.75	0.61	0.72	107	30	73	137	347
Center 1	0.48	0.80	0.75	0.56	0.63	0.54	0.70	0.55	0.64	52	13	41	38	144
Center 2	0.92	0.64	0.69	0.90	0.77	0.56	0.91	0.46	0.78	9	5	1	11	26
Center 3	0.73	0.73	0.87	0.52	0.73	0.62	0.82	0.72	0.73	16	6	15	41	78
Center 4	0.46	0.91	0.79	0.70	0.72	0.58	0.83	0.42	0.68	30	3	13	11	57
Center 5	0.92	0.00	0.92	0.00	0.86	0.71	0.95	0.93	0.46	0	3	3	36	42

Shape**Overall**

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.68	0.60	0.61	0.67	0.64	0.59	0.68	0.48	0.64	151	102	75	162	490
Center 1	0.81	0.51	0.54	0.79	0.63	0.57	0.70	0.42	0.66	68	66	18	78	230
Center 2	0.73	0.58	0.52	0.78	0.64	0.47	0.79	0.38	0.66	14	10	4	11	39
Center 3	0.55	0.69	0.73	0.50	0.61	0.50	0.70	0.61	0.62	27	12	27	33	99
Center 4	0.67	0.75	0.58	0.82	0.73	0.61	0.82	0.34	0.71	40	13	9	18	80
Center 5	0.56	0.67	0.96	0.11	0.57	0.41	0.72	0.93	0.62	2	1	17	22	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.44	0.78	0.32	0.86	0.71	0.63	0.79	0.19	0.61	90	26	15	12	143
Center 1	0.59	0.71	0.33	0.88	0.69	0.58	0.78	0.20	0.65	49	20	7	10	86
Center 2	0.00	0.90	0.00	0.75	0.69	0.39	0.91	0.23	0.45	9	1	3	0	13
Center 3	0.25	0.76	0.20	0.81	0.67	0.43	0.85	0.19	0.51	13	4	3	1	21
Center 4	0.33	0.95	0.50	0.90	0.87	0.66	0.97	0.13	0.64	19	1	2	1	23
Center 5	0.33	0.95	0.50	0.90	0.87	0.66	0.97	0.13	0.64	19	1	2	1	23

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.71	0.45	0.66	0.50	0.61	0.55	0.66	0.61	0.58	61	76	60	150	347
Center 1	0.86	0.29	0.60	0.63	0.60	0.52	0.68	0.55	0.58	19	46	11	68	144
Center 2	0.92	0.36	0.55	0.83	0.62	0.41	0.80	0.46	0.64	5	9	1	11	26
Center 3	0.57	0.64	0.80	0.37	0.59	0.47	0.70	0.72	0.60	14	8	24	32	78
Center 4	0.71	0.64	0.59	0.75	0.67	0.53	0.79	0.42	0.67	21	12	7	17	57
Center 5	0.56	0.67	0.96	0.11	0.57	0.41	0.72	0.93	0.62	2	1	17	22	42

**Margin
Overall**

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.83	0.35	0.54	0.69	0.58	0.54	0.63	0.48	0.59	88	165	40	197	490
Center 1	0.90	0.15	0.43	0.67	0.46	0.40	0.53	0.42	0.52	20	114	10	86	230
Center 2	0.73	0.46	0.46	0.73	0.56	0.40	0.72	0.38	0.60	11	13	4	11	39
Center 3	0.75	0.36	0.64	0.48	0.60	0.49	0.69	0.61	0.55	14	25	15	45	99
Center 4	0.67	0.81	0.64	0.83	0.76	0.65	0.85	0.34	0.74	43	10	9	18	80
Center 5	0.95	0.00	0.93	0.00	0.88	0.74	0.96	0.93	0.47	0	3	2	37	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.67	0.34	0.19	0.82	0.41	0.32	0.49	0.19	0.51	40	76	9	18	143
Center 1	0.88	0.13	0.20	0.82	0.28	0.19	0.39	0.20	0.51	9	60	2	15	86
Center 2	0.33	0.80	0.33	0.80	0.69	0.39	0.91	0.23	0.57	8	2	2	1	13
Center 3	0.25	0.29	0.08	0.63	0.29	0.11	0.52	0.19	0.27	5	12	3	1	21
Center 4	0.33	0.90	0.33	0.90	0.83	0.61	0.95	0.13	0.62	18	2	2	1	23
Center 5	0.33	0.90	0.33	0.90	0.83	0.61	0.95	0.13	0.62	18	2	2	1	23

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.85	0.35	0.67	0.61	0.65	0.60	0.70	0.61	0.60	48	89	31	179	347
Center 1	0.90	0.17	0.57	0.58	0.57	0.48	0.65	0.55	0.53	11	54	8	71	144
Center 2	0.83	0.21	0.48	0.60	0.50	0.30	0.70	0.46	0.52	3	11	2	10	26
Center 3	0.79	0.41	0.77	0.43	0.68	0.56	0.78	0.72	0.60	9	13	12	44	78
Center 4	0.67	0.81	0.64	0.83	0.76	0.65	0.85	0.34	0.74	43	10	9	18	80
Center 5	0.95	0.00	0.93	0.00	0.88	0.74	0.96	0.93	0.47	0	3	2	37	42

Central hilar structure

Overall

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.91	0.29	0.54	0.77	0.59	0.54	0.63	0.48	0.60	73	180	22	215	490
Center 1	0.83	0.29	0.46	0.71	0.52	0.45	0.58	0.42	0.56	39	95	16	80	230
Center 2	0.87	0.21	0.41	0.71	0.46	0.30	0.63	0.38	0.54	5	19	2	13	39
Center 3	1.00	0.23	0.67	1.00	0.70	0.60	0.79	0.61	0.62	9	30	0	60	99
Center 4	0.89	0.36	0.41	0.86	0.54	0.42	0.65	0.34	0.62	19	34	3	24	80
Center 5	0.97	0.33	0.95	0.50	0.93	0.81	0.99	0.93	0.65	1	2	1	38	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.81	0.28	0.21	0.86	0.38	0.30	0.46	0.19	0.55	32	84	5	22	143
Center 1	0.71	0.26	0.19	0.78	0.35	0.25	0.46	0.20	0.48	18	51	5	12	86
Center 2	1.00	0.10	0.25	1.00	0.31	0.09	0.61	0.23	0.55	1	9	0	3	13
Center 3	1.00	0.35	0.27	1.00	0.48	0.26	0.70	0.19	0.68	6	11	0	4	21
Center 4	1.00	0.35	0.19	1.00	0.43	0.23	0.66	0.13	0.68	7	13	0	3	23
Center 5	1.00	0.35	0.19	1.00	0.43	0.23	0.66	0.13	0.68	7	13	0	3	23

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	AccuracyLower	AccuracyUpper	Prevalence	Balanced acc	TN	FP	FN	TP	Total
Overall	0.92	0.30	0.67	0.71	0.67	0.62	0.72	0.61	0.61	41	96	17	193	347
Center 1	0.86	0.32	0.61	0.66	0.62	0.53	0.70	0.55	0.59	21	44	11	68	144
Center 2	0.83	0.29	0.50	0.67	0.54	0.33	0.73	0.46	0.56	4	10	2	10	26
Center 3	1.00	0.14	0.75	1.00	0.76	0.65	0.85	0.72	0.57	3	19	0	56	78
Center 4	0.88	0.36	0.50	0.80	0.58	0.44	0.71	0.42	0.62	12	21	3	21	57
Center 5	0.97	0.33	0.95	0.50	0.93	0.81	0.99	0.93	0.65	1	2	1	38	42

Central necrosis sign

Overall

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.15	0.98	0.85	0.55	0.58	0.53	0.62	0.48	0.56	247	6	202	35	490
Center 1	0.11	0.99	0.85	0.61	0.62	0.56	0.68	0.42	0.55	132	2	85	11	230
Center 2	0.07	0.92	0.33	0.61	0.59	0.42	0.74	0.38	0.49	22	2	14	1	39
Center 3	0.07	1.00	1.00	0.41	0.43	0.33	0.54	0.61	0.53	39	0	56	4	99
Center 4	0.26	0.98	0.88	0.72	0.74	0.63	0.83	0.34	0.62	52	1	20	7	80
Center 5	0.31	0.67	0.92	0.07	0.33	0.20	0.50	0.93	0.49	2	1	27	12	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.07	1.00	1.00	0.82	0.83	0.75	0.88	0.19	0.54	116	0	25	2	143
Center 1	0.06	1.00	1.00	0.81	0.81	0.72	0.89	0.20	0.53	69	0	16	1	86
Center 2	0.00	1.00	-	0.77	0.77	0.46	0.95	0.23	0.50	10	0	3	0	13
Center 3	0.00	1.00	-	0.81	0.81	0.58	0.95	0.19	0.50	17	0	4	0	21
Center 4	0.33	1.00	1.00	0.91	0.91	0.72	0.99	0.13	0.67	20	0	2	1	23
Center 5	0.33	1.00	1.00	0.91	0.91	0.72	0.99	0.13	0.67	20	0	2	1	23

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.16	0.96	0.85	0.43	0.47	0.42	0.53	0.61	0.56	131	6	177	33	347
Center 1	0.13	0.97	0.83	0.48	0.51	0.42	0.59	0.55	0.55	63	2	69	10	144
Center 2	0.08	0.86	0.33	0.52	0.50	0.30	0.70	0.46	0.47	12	2	11	1	26
Center 3	0.07	1.00	1.00	0.30	0.33	0.23	0.45	0.72	0.54	22	0	52	4	78
Center 4	0.25	0.97	0.86	0.64	0.67	0.53	0.79	0.42	0.61	32	1	18	6	57
Center 5	0.31	0.67	0.92	0.07	0.33	0.20	0.50	0.93	0.49	2	1	27	12	42

Ultrasound canada score >3

Overall

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.64	0.82	0.77	0.71	0.73	0.69	0.77	0.48	0.73	208	45	85	152	490
Center 1	0.58	0.84	0.73	0.74	0.73	0.67	0.79	0.42	0.71	113	21	40	56	230
Center 2	0.33	0.63	0.36	0.60	0.51	0.35	0.68	0.38	0.48	15	9	10	5	39
Center 3	0.70	0.77	0.82	0.63	0.73	0.63	0.81	0.61	0.73	30	9	18	42	99
Center 4	0.52	0.92	0.78	0.79	0.79	0.68	0.87	0.34	0.72	49	4	13	14	80
Center 5	0.90	0.33	0.95	0.20	0.86	0.71	0.95	0.93	0.62	1	2	4	35	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.07	1.00	1.00	0.82	0.83	0.75	0.88	0.19	0.54	116	0	25	2	143
Center 1	0.06	1.00	1.00	0.81	0.81	0.72	0.89	0.20	0.53	69	0	16	1	86
Center 2	0.00	1.00	-	0.77	0.77	0.46	0.95	0.23	0.50	10	0	3	0	13
Center 3	0.00	1.00	-	0.81	0.81	0.58	0.95	0.19	0.50	17	0	4	0	21
Center 4	0.33	1.00	1.00	0.91	0.91	0.72	0.99	0.13	0.67	20	0	2	1	23
Center 5	-	-	-	-	-	-	-	-	-	0	0	0	0	0

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.71	0.67	0.77	0.61	0.70	0.65	0.75	0.61	0.69	92	45	60	150	347
Center 1	0.70	0.68	0.72	0.65	0.69	0.61	0.76	0.55	0.69	44	21	24	55	144
Center 2	0.42	0.36	0.36	0.42	0.38	0.20	0.59	0.46	0.39	5	9	7	5	26
Center 3	0.75	0.59	0.82	0.48	0.71	0.59	0.80	0.72	0.67	13	9	14	42	78
Center 4	0.54	0.88	0.76	0.73	0.74	0.60	0.84	0.42	0.71	29	4	11	13	57
Center 5	0.90	0.33	0.95	0.20	0.86	0.71	0.95	0.93	0.62	1	2	4	35	42

Ultrasound canada score >4

Overall

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.12	0.99	0.94	0.55	0.57	0.53	0.62	0.48	0.56	251	2	208	29	490
Center 1	0.09	1.00	1.00	0.61	0.62	0.56	0.68	0.42	0.55	134	0	87	9	230
Center 2	0.07	1.00	1.00	0.63	0.64	0.47	0.79	0.38	0.53	24	0	14	1	39
Center 3	0.07	1.00	1.00	0.41	0.43	0.33	0.54	0.61	0.53	39	0	56	4	99
Center 4	0.19	0.98	0.83	0.70	0.71	0.60	0.81	0.34	0.58	52	1	22	5	80
Center 5	0.26	0.67	0.91	0.06	0.29	0.16	0.45	0.93	0.46	2	1	29	10	42

<8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.00	1.00	NaN	0.81	0.81	0.74	0.87	0.19	0.50	116	0	27	0	143
Center 1	0.00	1.00	NaN	0.80	0.80	0.70	0.88	0.20	0.50	69	0	17	0	86
Center 2	0.00	1.00	NaN	0.77	0.77	0.46	0.95	0.23	0.50	10	0	3	0	13
Center 3	0.00	1.00	NaN	0.81	0.81	0.58	0.95	0.19	0.50	17	0	4	0	21
Center 4	0.00	1.00	NaN	0.87	0.87	0.66	0.97	0.13	0.50	20	0	3	0	23
Center 5	-	-	-	-	-	-	-	-	-	0	0	0	0	0

≥8 mm

Center	Sensitivity	Specificity	PPV	NPV	Accuracy	Acc. 95% low	Acc. 95% high	Prevalence	Balanced Acc.	TN	FP	FN	TP	Total
Overall	0.14	0.99	0.94	0.43	0.47	0.42	0.53	0.61	0.56	135	2	181	29	347
Center 1	0.11	1.00	1.00	0.48	0.51	0.43	0.60	0.55	0.56	65	0	70	9	144
Center 2	0.08	1.00	1.00	0.56	0.58	0.37	0.77	0.46	0.54	14	0	11	1	26
Center 3	0.07	1.00	1.00	0.30	0.33	0.23	0.45	0.72	0.54	22	0	52	4	78
Center 4	0.21	0.97	0.83	0.63	0.65	0.51	0.77	0.42	0.59	32	1	19	5	57
Center 5	0.26	0.67	0.91	0.06	0.29	0.16	0.45	0.93	0.46	2	1	29	10	42