

Supplementary Data:

Table S1: Baseline Characteristics (Subgroup Analysis)

Characteristics	Total Population [n=170]	Lung Congestion	
		No [n=126]	Yes [n=44]
Age [years]: mean (SD)	67(14)	65(15)	74(10)
Gender (males): n (%)	109(64%)	76(60%)	33(75%)
Gender (female): n (%)	61(36%)	50(40%)	11(25%)
Height [cm]: mean (SD)	167(9)	167(10)	167(9)
Weight [Kg]: mean (SD)	79(15)	79(16)	79(13)
BMI [Kg/m^2]: mean (SD)	28(5)	28(5)	29(5)
BMI ≥ 30 : n (%)	50(29%)	34(27%)	16(36%)
Smoking: n (%)	25(15%)	18(14%)	7(16%)
Risk Factors:			
Heart failure: n (%)	112(66%)	76(60%)	36(82%)
Hypertension: n (%)	90(53%)	53(42%)	37(84%)
Diabetes: n (%)	46(27%)	22(17%)	24(55%)
Stroke / TIA / thromboembolism: n (%)	12(7%)	7(6%)	5(11%)
Vascular disease: n (%)	85(50%)	56(44%)	29(66%)
Other Medical Conditions:			
Respiratory conditions (COPD, asthma, pulmonary HTN, pulmonary embolism, lung cancer etc).	26(15%)	11(9%)	15(34%)
Valvular disorders (any type; mild, moderate or severe)	61(36%)	29(23%)	32(73%)
Medications:			
Anticoagulant: n (%)	39(23%)	23(18%)	16(36%)
Antiplatelet: n (%)	101(59%)	73(58%)	28(64%)
ACEi: n (%)	43(25%)	35(28%)	8(18%)
ARB: n (%)	19(11%)	11(9%)	8(18%)
CCB: n (%)	30(18%)	14(11%)	16(36%)
Beta-blocker: n (%)	92(54%)	65(52%)	27(61%)
Diuretic (any): n (%)	68(40%)	36(29%)	32(73%)
Antiarrhythmic: n (%)	15(9%)	6(5%)	9(20%)

BMI: body mass index; TIA: transient ischemic attack; COPD: chronic obstructive pulmonary disease; HTN: hypertension; ACEi: angiotensin-converting enzyme

inhibitor; ARB: angiotensin receptor blocker; CCB: calcium channel blocker.

Table S2: Diagnostic accuracy of the Gili lung congestion algorithm, when including measurements with inconclusive predictions.

Variable	Original Point Estimates [95% CI]	Point Estimates When Including Inconclusive Predictions (Worse-Case Scenario)
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			[95% CI]	
	Complete Study Population	Subgroup Analysis	Complete Study Population	Subgroup Analysis
Sensitivity	0.91 [0.86, 0.93]	0.99 [0.96, 1]	0.91 [0.87, 0.94]	0.99 [0.96, 1]
Specificity	0.91 [0.87, 0.94]	0.93 [0.88, 0.95]	0.88 [0.84, 0.91]	0.89 [0.84, 0.93]
PPV _{Sample}	0.92 [0.88, 0.95]	0.89 [0.83, 0.93]	0.90 [0.86, 0.93]	0.84 [0.79, 0.89]
NPV _{Sample}	0.90 [0.85, 0.93]	0.99 [0.97, 1]	0.90 [0.85, 0.93]	0.99 [0.97, 1]
PPV _{32%}	0.82 [0.77, 0.86]	0.86 [0.80, 0.90]	0.78 [0.73, 0.83]	0.81 [0.75, 0.86]
NPV _{32%}	0.95 [0.92, 0.97]	0.99 [0.97, 1]	0.95 [0.92, 0.97]	0.99 [0.97, 1]
PLR	10 [6.6, 15]	9.9 [6.4, 15]	7.7 [5.4, 11]	8.9 [5.9, 13]
NLR	0.1 [0.07, 0.16]	0.015 [0.005, 0.049]	0.1 [0.066, 0.15]	0.015 [0.005, 0.048]

CI: Confidence Intervals

PPV: Positive predictive value

NPV: Negative predictive value

Sample: Based on prevalence from study sample set

32%: Based on expected prevalence of 32% [24]

PLR: Positive likelihood ratio

NLR: Negative likelihood ratio