

**Supplementary Table I Diagnostic Accuracy of Different Parameters for the Diagnosis of Pneumonia Against Any Abnormality on Chest X-Ray as Gold Standard (N=1273)**

Parameters	Number (n)	Sensitivity, % (95% CI)	Specificity, % (95% CI)	LR+ (95% CI)	LR- (95% CI)	Post-test probability (% change) <sup>d</sup>
Cough	1271	99.8 (99.04 – 99.97)	0.15 (0.03 – 0.82)	1.0 (0.99 – 1.0)	1.2 (0.07 – 18.7)	-
Audible wheeze	61	4.9 (3.5 – 7.0)	95.3 (93.5 – 96.7)	1.1 (0.65 – 1.7)	0.99 (0.97 – 1.0)	-
Difficulty in breathing	254	24.1 (20.8 – 27.7)	83.5 (80.6 – 86.1)	1.5 (1.2 – 1.8)	0.91 (0.86 – 0.96)	-
Fever	1034	85.7 (82.6 – 88.3)	22.6 (19.6 – 25.8)	1.1 (1.0 – 1.2)	0.64 (0.5 – 0.81)	-
Fast breathing <sup>a</sup>	596	58.7 (54.7 – 62.6)	63.3 (59.7 – 66.8)	1.6 (1.4 – 1.8)	0.65 (0.58 – 0.73)	-
Chest in-drawing	407	43.7 (39.7 – 47.7)	78.0 (74.8 – 80.9)	1.9 (1.7 – 2.4)	0.72 (0.67 – 0.78)	-
Pneumonia <sup>b</sup>	563	56.5 (52.4 – 60.4)	66.2 (62.6 – 69.7)	1.7 (1.5 – 1.9)	0.66 (0.59-0.73)	-
SpO <sub>2</sub> <92% (n=1266)	213	23.9 (20.6 – 27.5)	89.3 (86.7 – 91.4)	2.2 (1.72 – 3.0)	0.85 (0.81 – 0.9)	66% (+20%)
Existing WHO criteria + SpO <sub>2</sub> <92% (n=1266)	196	22.2 (19.0 – 25.8)	90.3 (87.9 – 92.3)	2.3 (1.7 – 3.0)	0.86 (0.82 – 0.9)	66% (+20%)
Existing WHO criteria and/or SpO <sub>2</sub> <92%	580	58.2 (54.2 – 62.1)	65.2 (61.6 – 68.7)	1.7 (1.5 – 1.9)	0.64 (0.57 – 0.71)	-
Chest in-drawing + SpO <sub>2</sub> <92%	184	21.9 (18.7 – 25.4)	91.8 (89.5 – 93.6)	2.7 (1.9 – 3.6)	0.85 (0.81 – 0.89)	69% (+23%)
Existing WHO criteria +ve and SpO <sub>2</sub> <92% <sup>c</sup> (n=561)	196	39.3 (34.2 – 44.6)	71.3 (65.2 – 76.7)	1.4 (1.1 – 1.7)	0.85 (0.76 – 0.96)	-

<sup>a</sup>Fast breathing as per who criteria. <sup>b</sup>WHO criteria for pneumonia are presence of fast breathing for age and/or chest in-drawing. <sup>c</sup>first the children were classified into pneumonia or no pneumonia according to WHO criteria as explained above; in the children who had pneumonia, SpO<sub>2</sub> was used to determine presence or absence of pneumonia (SpO<sub>2</sub><92%: pneumonia, SpO<sub>2</sub> ≥92%: no pneumonia). <sup>d</sup>Post-test probability was calculated for parameters having a LR+ of ≥ 2.0 and/or a LR- of ≤ 0.5 considering the prevalence (pre-test probability) of pneumonia to be 46% (586/1273). LR + : Likelihood ratio for positive test; LR - : Likelihood ratio for negative test