(Table 1) Outcome of studied populations

Variable	Summary statistics		
Duration in NICU			
Mean $\pm$ SD	$12.62 \pm 10.74$		
Median (range)	8 (3-45)		
Duration on mechanical ventilation			
Mean $\pm$ SD	$8.48 \pm 11.79$		
Median (range)	4 (0-45)		
Duration on oxygen			
Mean $\pm$ SD	$2.92 \pm 1.50$		
Median (range)	3 (0-7)		

This table demonstrates the outcome of neonates with MAS and duration of admission in NICU, The median range of admission at NICU was 8 days, median range of mechanical ventilator was 4 days and median duration of oxygen therapy was 3 days.

(Table 2) Relation between MAS with and without sepsis and inflammatory indices

Variable	No sepsis	Sepsis	P value	
CRP	24 (6-48)	48 (12-96)	< 0.0001	
PCT	10 (0.9-60.4)	25 (1.8-60)	0.001	
ESR	7 (2-15)	15 (5-89)	< 0.0001	
WBCs	8000 (4000-18000)	19000 (10000-41000)	< 0.0001	
Neutrophilia (%)	39.3 (22.4-79.4)	73.8 (55-89)	< 0.0001	

Data was represented as median (range)

Variables	AUC	Cut-off	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	OR (95% CI interval)	P value
CRP	0.87 (0.74- 0.95)	>24	83.3 (58.6–96.4)	78.12 (60.0–90.7)	68.2 (51.9– 81.0)	89.3 (74.5– 96.0)	17.9 (3.99–79.74)	<0.0001
РСТ	0.91 (0.73- 0.97)	>15	94.4 (72.7–99.9)	81.2 (63.6-92.8)	73.9 (57.7– 85.5)	96.3 (79.3– 99.4)	73.67 (8.13–667.2)	<0.0001
ESR	0.87 (0.75- 0.95)	>8	88.9 (65.3–98.6)	68.7 (50.0-83.9)	61.5 (48.3– 73.3)	91.7 (74.5– 97.6)	17.6 (3.38–91.56)	0.001
WBCs	0.88 (0.75- 0.95)	>1300	88.9 (65.3–98.6)	78.1 (60.0–90.7)	69.6 (53.8- 81.8)	92.6 (77.0– 97.9)	28.57 (5.26–155.17)	<0.0001
Neutrophilia (%)	0.86 (0.73- 0.94)	>55	94.4 (72.7–99.9)	71.9 (53.3-86.3)	65.4 (51.8– 76.9)	65.4 (51.8– 76.9)	43.4 (5.0–376.3)	0.001
Any marker indicate MAS			100 (81.5–100)	43.75 (26.4-62.3)	50 (32.9- 6.7)	100 (76.8- 100)	Can't calculated	
All marker in dicate MAS			72.2 (46.5–90.3)	96.9 (84.8–99.9)	92.9 (66.1– 99.8)	86.1 (70.5– 95.3)	80.6 (8.6-759)	<0.0001

CI=confidence intervals. OR indicates the odds of very severe MAS comparing predictor values above and below the indicated cut-off

By analysis of values obtained during first 7 days of life, maximum CRP, and maximum PCT values were higher in neonates with very sever and sever MAS compared to non sever MAS. PCT and CRP correlated with duration of mechanical ventilation , duration of any respiratory support and length of hospital stay. PCT more sensitive rather than other inflammatory indices.