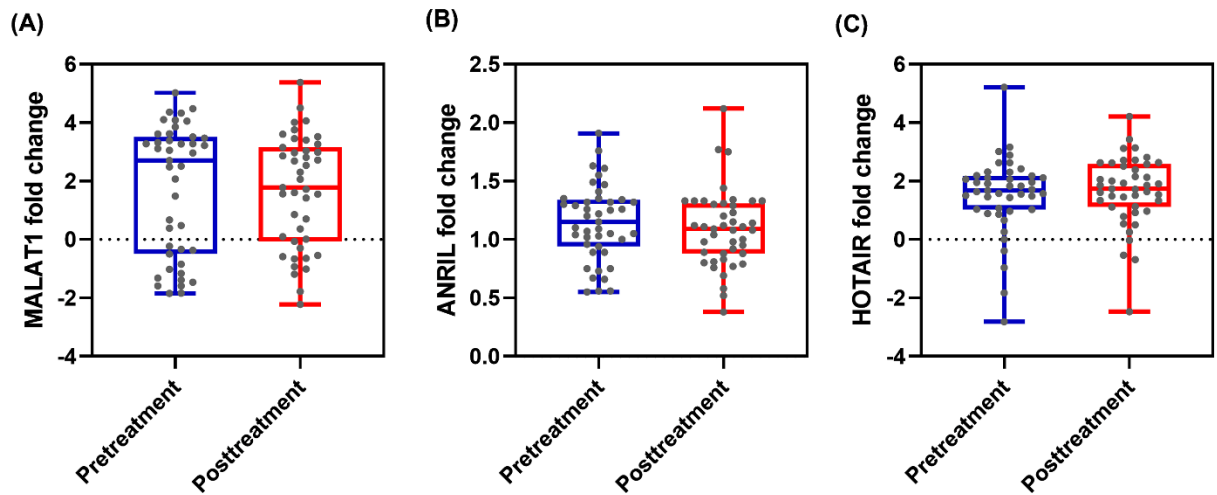


## Supplementary materials



**Figure S1: The pre- and post-treatment relative expression levels of the studied circulatory long non-coding RNAs in neonates with sepsis cohort (n= 43).** Whiskers and bars represented the median (Q1 and Q3). (A) MALAT1 2.70 (- 0.50 – 3.51) and 1.78 (-0.06 – 3.15) ( $p$ -value = 0.742), (B) ANRIL 1.15 (0.94 – 1.34) and 1.09 (0.88 – 1.31), ( $p$ -value = 0.448), (C) HOTAIR 1.67 (1.03 – 2.18) and 1.74 (1.11 – 2.58) ( $p$ -value = 0.522) for pre- and post-treatment levels, respectively. All values were log-transformed with the control level sets at the zero lines. Wilcoxon matched-pairs signed-rank test was employed.

**Table S1.** Analysis of association of the three studied lncRNAs and comorbidities

<b>Characteristics</b>	<b>Levels</b>	<b>MALAT1</b>	<b>ANRIL</b>	<b>HOTAIR</b>
<b>Demographics</b>				
Onset	Early vs late	0.61	0.07	0.37
Sex	Female vs male	0.88	0.62	0.74
Mode of delivery	CS vs vaginal	0.08	0.67	0.07
Weight at birth	LBWB vs normal	<b>0.04</b>	0.52	0.10
Maternal antibiotic	Amoxycillin			
<b>Risk factors</b>				
	Maternal diabetes	0.06	0.07	0.96
	Maternal anemia	0.36	0.59	0.25
	Maternal hypertension	<b>0.032</b>	0.15	0.22
	Triple I	0.051	0.61	0.89
Neonatal factors	IUGR	0.71	0.21	0.14
	Total parental nutrition	0.09	0.54	0.16
Comorbidities	Congenital heart disease	0.23	0.21	0.22
	Jejunal atresia	0.40	0.24	0.87
	Inguinal hernia	0.68	0.71	0.59

*P*-values are shown; bold values indicate significance at *p*-value <0.05. The Mann-Whitney U test was performed for sepsis versus control.