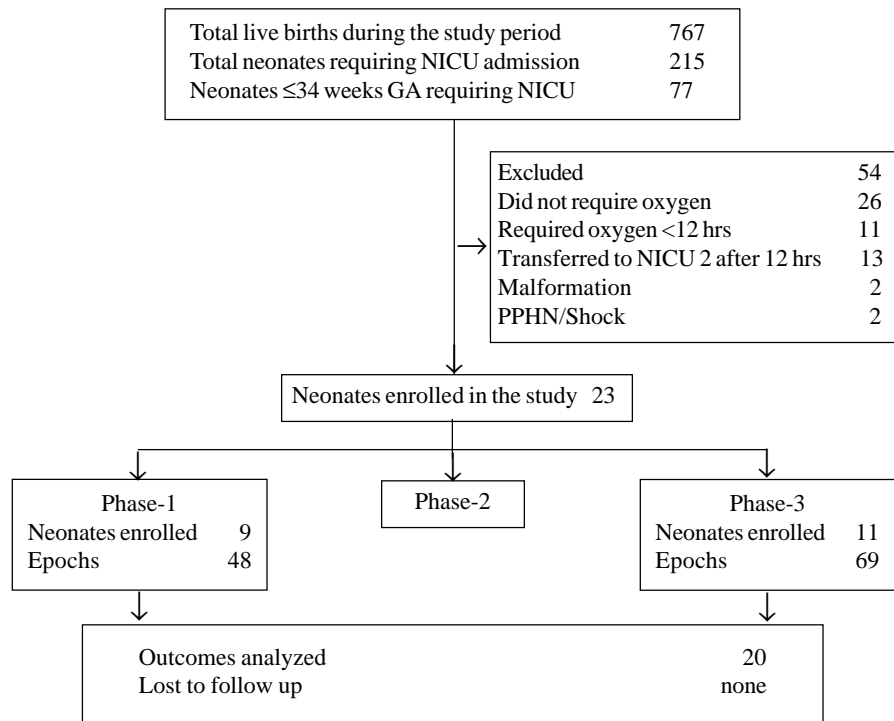


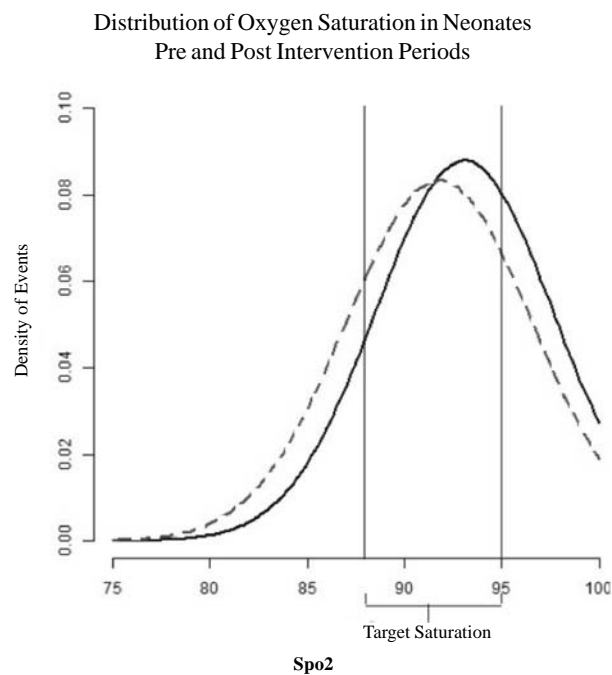
WEB TABLE I GENERALIZED ESTIMATING EQUATION (GEE) POPULATION AVERAGED MODEL FOR OXYGEN SATURATION PROPORTION ADJUSTED FOR NICU OPERATIONAL CHARACTERISTIC IN PHASE-1 AND PHASE-3 OF STUDY

Time/10-hour epoch spent (%)	Phase of study		Unadjusted GEE		Adjusted* GEE	
	Phase-1 (n=48)	Phase-3 (n=69)	Co-efficient (95% CI)	P-value	Coefficient (95% CI)	P-value
In target SpO ₂ range 88-95%	65.9 (21.4)	76.5 (12.6)	12.0(3.0 to 21.0)	0.009	5.4(0.7 to 10.0)	0.024
In hypoxia: (SpO ₂ <88%)	6.7 (5.7)	12.5 (13.8)	2.5(-2.3 to 7.2)	0.31	1.9(-0.6 to 4.1)	0.13
In hyperoxia: (SpO ₂ >95%)	27.3 (22.7)	12.5 (13.8)	-15.2(-26 to -4.3)	0.006	-7.8(-13.5 to -2)	0.008

*Adjusted for nurse strength per shift, bed occupancy, neonates on non-invasive ventilation and neonates on mechanical ventilator support per epoch; Value in mean (SD).



WEB FIG. 1 Study flow.



WEB FIG. 2 Pooled density histograms of all enrolled neonates showing the proportion of time spent at each saturation value in the different phases of the study. The dashed line denotes Phase-3 and the solid line Phase-1. The density histogram in Phase-3 shows a shift away from hyperoxia but towards the hypoxia side.