

Supplemental Information

SUPPLEMENTAL TABLE 4 Multivariate Odds Ratios for Exceeding AAP Phototherapy Thresholds Before Age 30 Days, Δ -TSB-Plus Model

Variable	Odds Ratio (95% CI)
Δ -TSB (mg/dL)	
0 to -1	85.92 (62.9–117.35)
<-1 to -2	41.35 (33.25–51.43)
<-2 to -3	12.97 (10.63–15.83)
<-3 to -4	3.95 (3.34–4.68)
<-4 to -5	Reference
<-5 to -6	0.17 (0.13–0.24)
<-6 to -7	0.05 (0.02–0.1)
<-7	0.02 (0–0.08)
ROR (per 0.1 mg/dL per h)	1.99 (1.53–2.58)
Gestational age, wk	
35	3.5 (2.54–4.83)
36	3.23 (2.56–4.08)
37	5.35 (4.46–6.41)
38	3.13 (2.69–3.65)
39	1.72 (1.49–1.99)
40	Reference
41	0.66 (0.52–0.84)
Test age, h	
12 to <24	0.83 (0.7–0.98)
24 to <48	Reference
48 to <72	0.59 (0.49–0.71)
72 to <96	0.22 (0.12–0.4)
96 to <120	0.08 (0.01–0.71)
Inpatient feeding	
Exclusive breast milk	Reference
Breast milk and formula	2.23 (2.01–2.48)
Exclusive formula	0.32 (0.18–0.55)

CI, confidence interval

SUPPLEMENTAL TABLE 5 AUCs of Models Outcome: TSB Above AAP Threshold Ever

	AUC (95% CI)
Entire validation data set	
Bhutani	0.88 (0.87–0.89)
Δ -TSB	0.93 (0.92–0.94)
Δ -TSB-Plus	0.95 (0.94–0.96)
TSBs before 24 h	
Bhutani	0.89 (0.87–0.92)
Δ -TSB	0.91 (0.89–0.93)
Δ -TSB-Plus	0.94 (0.93–0.96)
TSBs after 24 h	
Bhutani	0.88 (0.87–0.89)
Δ -TSB	0.93 (0.92–0.94)
Δ -TSB-Plus	0.95 (0.94–0.96)
Infants: gestational age <38 wk	
Bhutani	0.87 (0.85–0.89)
Δ -TSB	0.92 (0.90–0.94)
Δ -TSB-Plus	0.94 (0.92–0.95)
Infants: gestational age \geq 38 wk	
Bhutani	0.90 (0.89–0.91)
Δ -TSB	0.93 (0.92–0.94)
Δ -TSB-Plus	0.95 (0.94–0.96)
Infants: DAT positive results	
Bhutani	0.85 (0.82–0.89)
Δ -TSB	0.93 (0.90–0.95)
Δ -TSB-Plus	0.95 (0.93–0.98)
Infants: DAT negative or unknown results	
Bhutani	0.89 (0.88–0.90)
Δ -TSB	0.93 (0.92–0.94)
Δ -TSB-Plus	0.95 (0.94–0.96)

SUPPLEMENTAL TABLE 6 Discrimination of Models in Validation Data Set: TSB Above AAP Threshold Within 24 or 48 Hours

	AUC (95% CI)
Outcome: 24 h	
Bhutani	0.88 (0.87–0.89)
Δ -TSB	0.92 (0.91–0.93)
Δ -TSB-Plus	0.94 (0.93–0.95)
Outcome: 48 h	
Bhutani	0.88 (0.87–0.89)
Δ -TSB	0.93 (0.92–0.94)
Δ -TSB-Plus	0.95 (0.94–0.95)