

## Supplementary information

**Table S1.** Criteria of phototherapy.

### 1. Criteria of Phototherapy

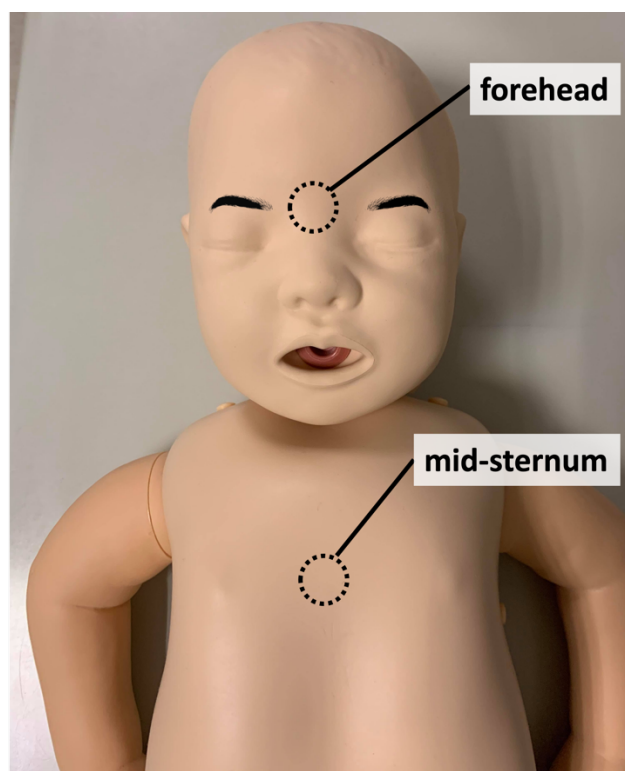
Days Body weight/weeks	0.5	1	2	3	4	≥ 5
<1000 gm	4	6	6	8	8	8
1000-2000 gm	6	8	10	12	12	12
2001-2499gm or GA 35-36 <sup>6/7</sup> weeks	6	8	11	13	14	15
≥ 2500gm and GA ≥ 37 weeks	7.8	9.9	13.1	15.5	17.5	18

### 2. Criteria of Intensive phototherapy

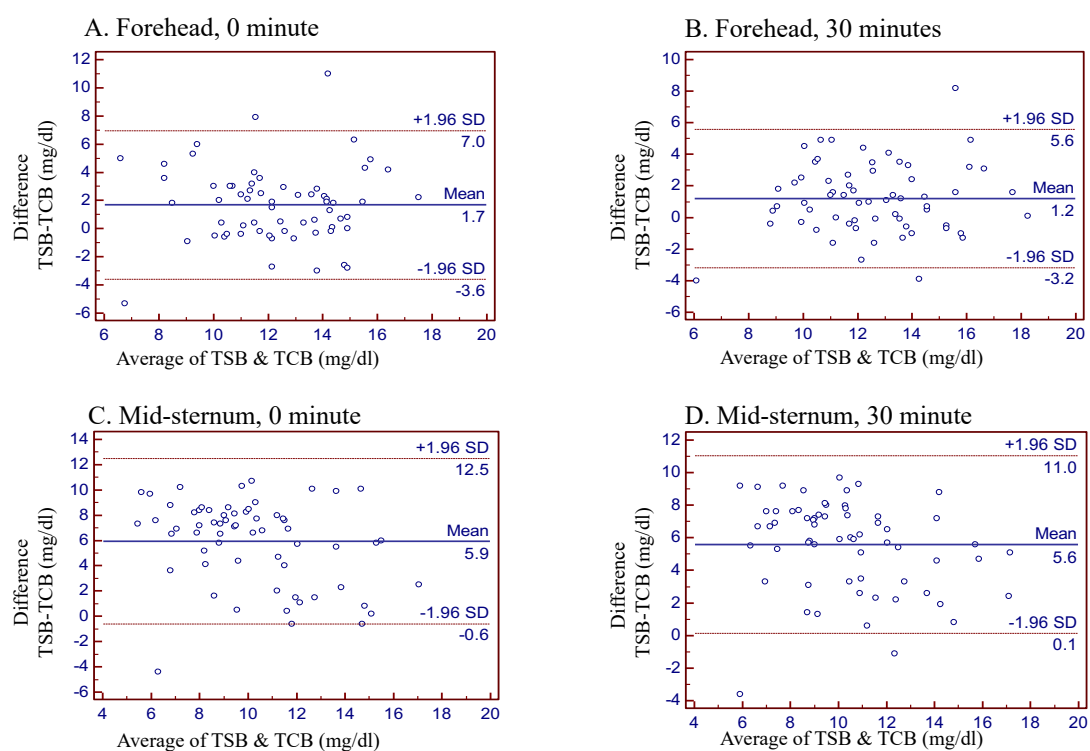
Days Body weight/weeks	0.5	1	2	3	4	≥ 5
<1000 gm	6	8	8	10	10	10
1000-2000 gm	7	9	11	13	15	15
2001-2499gm or GA 35-36 <sup>6/7</sup> weeks	8	10	13	15	17	18
≥ 2500gm and GA ≥ 37 weeks	9	12	15	18	20	21

### 3. Criteria of blood exchange transfusion

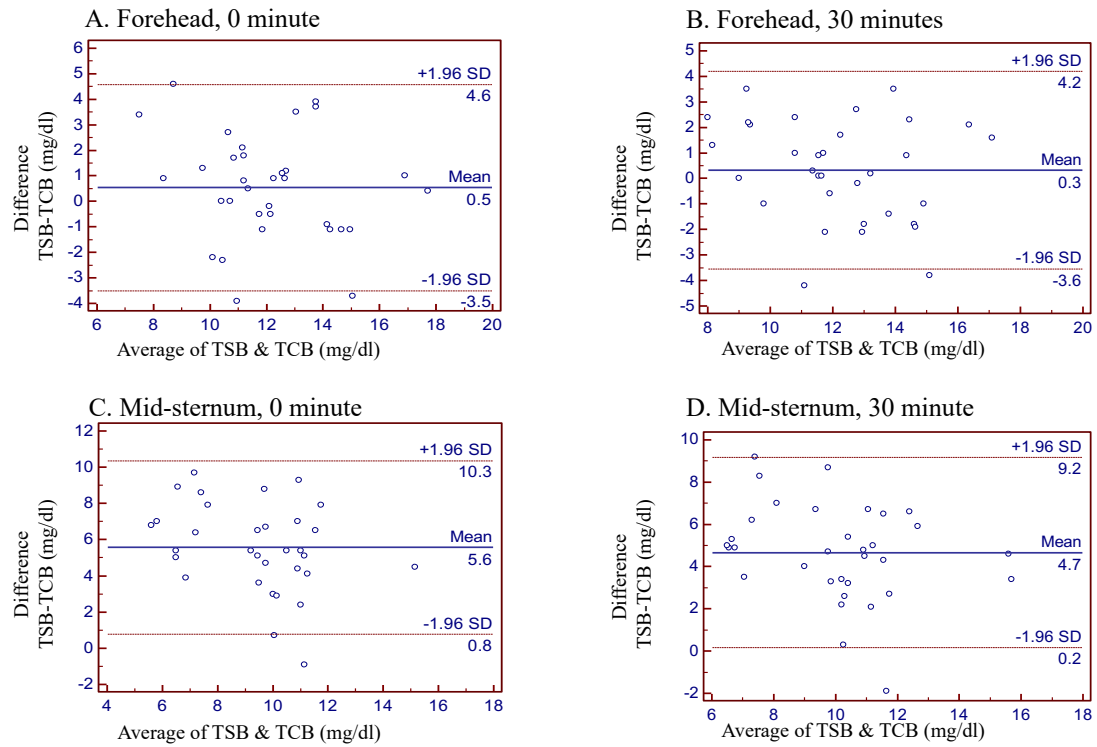
Days Body weight/weeks	0.5	1	2	3	4	≥ 5
<1000 gm	8	10	10	12	13	15
1000-2000 gm	10	12	15	17	17	17
2001-2499gm or GA 35-36 <sup>6/7</sup> weeks	13	14	17	21	21	21
≥ 2500gm and GA ≥ 37 weeks	15	16.5	19	24	25	25



**Figure S1.** Schematic diagram of transcutaneous bilirubin measurement site.



**Figure S2.** Bland-Altman plot for evaluation agreement between TCB and TSB measurements in term babies after phototherapy. (a) Forehead (0 min), (b) Forehead (30 mins), (c) Mid-sternum (0 min) and (d) Mid-sternum (30 mins).



**Figure S3.** Bland-Altman plot for evaluation agreement between TCB and TSB measurements in preterm babies after phototherapy. (a) Forehead (0 min), (b) Forehead (30 mins), (c) Mid-sternum (0 min) and (d) Mid-sternum (30 mins).