

IMAGE

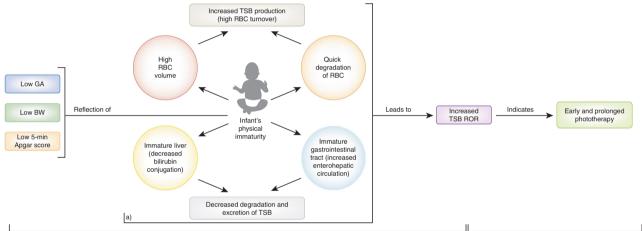
Insights Image for "Rate of rise of total serum bilirubin in very low birth weight preterm infants"

Sigrid Hahn¹, Christoph Bührer¹, Gerd Schmalisch¹, Boris Metze¹ and Monika Berns¹ *Pediatric Research* (2020) 87:1135; https://doi.org/10.1038/s41390-019-0674-3

Hypothesized causal relation between the postnatal rate of rise of total serum bilirubin, associated risk factors, as well as timing and duration of phototherapy in very low birth weight preterm infants. ¹ a) Aspects of bilirubin metabolism in physically immature infants. ² BW, birth weight; GA, gestational age; RBC, red blood cell; R_S, Spearman's rank coefficient; TSB, total serum bilirubin; TSB ROR, rate of rise of total serum bilirubin (mg/dL/h).

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A low GA, a low BW and a low 5-min Apgar score are all together a reflection of an infant's physical immaturity, which is associated with an increased production as well as a decreased degradation and excretion of TSB, leading to an increased rise of postnatal TSB concentration.

Postnatal TSB ROR is an indicator for the age at initiation ($R_s = -0.687$; $\rho < 0.001$) as well as for the duration ($R_s = 0.444$; $\rho < 0.001$) of phototherapy in very low birth weight preterm infants.

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