

# Early-term neonate

Early-term [neonates](#) (with a gestational age (GA) of 37 and 0/7 weeks to 38 and 6/7 weeks) face higher morbidities, including respiratory and neurodevelopmental issues, than full-term (39 and 0/7 weeks to 40 and 6/7 weeks) infants.

A [retrospective](#) study was conducted on [neonates](#) born from January 2021-June 2022, excluding those with specific conditions. Evaluated factors included [gestational age](#), birth weight, [bilirubin](#) levels, [Glucose-6-phosphate dehydrogenase deficiency](#), and [feeding](#) type, with [phototherapy](#) given as per [American Academy of Pediatrics guidelines](#). Of 1085 neonates, 356 met the criteria. When stratifying the neonates based on the need for phototherapy, a higher proportion of early-term neonates required phototherapy compared to full-term ( $p < 0.05$ ). After factoring in various risks (GA; birth weight; gender; feeding type; G6PD deficiency; transcutaneous bilirubin levels at 24 h and 24-48 h postpartum; maternal diabetes; and the presence of [caput succedaneum](#) or [cephalohematoma](#)), [early-term neonates](#) were more likely to need phototherapy than full-term babies (OR: 2.15, 95% CI: 1.21 to 3.80). The optimal cut-off for transcutaneous bilirubin levels 24-48 h postpartum that were used to predict phototherapy need was 9.85 mg/dl. In conclusion, [early-term neonates](#) are at a greater risk for developing jaundice and requiring phototherapy than [full-term neonates](#). Monitoring [bilirubin](#) 24-48 h postpartum enhances early prediction and intervention <sup>1)</sup>.

<sup>1)</sup>

Tan TJ, Chen WJ, Lin WC, Yang MC, Tsai CC, Yang YN, Yang SN, Liu HK. [Early-Term Neonates Demonstrate a Higher Likelihood of Requiring Phototherapy Compared to Those Born Full-Term](#). *Children (Basel)*. 2023 Nov 16;10(11):1819. doi: 10.3390/children10111819. PMID: 38002910; PMCID: PMC10670379.

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