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Facility-based constraints to exchange transfusions for neonatal hyperbilirubinemia in resource-limited settings

Cecilia A Mabogunje, Sarah M Olaifa, Bolajoko O Olusanya

Abstract

Several clinical guidelines for the management of infants with severe neonatal hyperbilirubinemia recommend immediate exchange transfusion (ET) when the risk or presence of acute bilirubin encephalopathy (ABE) is established to prevent chronic bilirubin encephalopathy or kernicterus. However, the literature is sparse on the interval between the time the decision for ET is made and the actual initiation of ET, especially in low- and middle-income countries (LMICs) with significant resource constraints but high rates of ET. This paper explores the various stages and potential delays during this interval in complying with the requirement for immediate ET for the affected infants based on a review of the available evidence from LMICs. The vital role of intensive phototherapy, efficient laboratory and logistical support, and clinical expertise for ET are highlighted. The challenges in securing informed parental consent especially on religious grounds and meeting the financial burden of this emergency procedure to facilitate timely ET are examined. Secondary delays arising from post-treatment bilirubin rebound with intensive phototherapy or ET are also discussed. These potential delays can compromise the effectiveness of ET and should provide additional impetus to curtail avoidable ET in LMICs.

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Management of hyperbilirubinemia in the newborn infant 35 ...

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2004年7月1日 - The following are the key elements of the recommendations provided by this guideline. Note: These guidelines are based on limited evidence and the

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2014年2月28日 - Bear in mind when initiating phototherapy that lowering of the total serum bilirubin ... the ability to increase energy delivery by moving lights closer to infants is limited. ... Exchange transfusion became the second-line treatment when ... must consider factors that are unique to their medical practice settings.

缺少字词: resource

A Practical Approach to Neonatal Jaundice - American ...

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2008年5月1日 - Secondary prevention is achieved by vigilant monitoring of neonatal



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However, the criteria for initiating this procedure in settings with limited ... cases, and the lack of adequate clinical and laboratory facilities [11,12,13]. ... For example, SNH refers to neonatal jaundice with serum bilirubin at/near ET levels based on ... and term infants with hyperbilirubinaemia in resource-constrained settings.

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2015年4月12日 - While timely and effective phototherapy and exchange transfusion are ... with significant resource constraints, this article presents a practical ... depending on the available facilities in each clinical setting and the ... transfusion Hyperbilirubinaemia Kernicterus Neonatal jaundice Newborn care Phototherapy ...

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... for Severe Neonatal Hyperbilirubinemia in Resource-Limited Settings ... Since its introduction in the late 1940s [1], exchange transfusion (ET) has been ... cases, and the lack of adequate clinical and laboratory facilities [11,12,13]. ... For example, SNH refers to neonatal jaundice with serum bilirubin at/near ET levels based ...

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