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Holliday segar formula

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The Holliday-Segar maintenance fluid calculator has been widely used for both adult and pediatric patients since its derivation in 1957. It was originally designed to calculate fluid requirements based on estimated energy expenditure among hospitalized children, with the formula assuming greater energy expenditure amongst sicker kids. Although other calculators have emerged, the "4-2-1" rule remains popular due to its ease of calculation. This calculator determines maintenance fluid rate based solely on weight. The Holliday-Segar method is calculated as follows: * For the first 10kg: 100ml/kg/day * For the second 10kg (11-20kg): 50ml/kg/day * For any kilogram above 20kg (>20kg): 20ml/kg/day Using this method, for a child weighing 6kg, the fluid requirement would be: * 600ml of fluid in 24hrs (per day) * 25 mL/hr for hourly maintenance rate For a child weighing 15 kg, the calculation involves breaking down the weight into the first 10 kg and the remaining 5 kg. The fluid requirements are then calculated as follows: * First 10 kg: 1000 ml * Next 5 kg (11 to 20 kg range): 250 ml * Total fluid requirement per day: 1250ml of fluid in 24hrs (per day) * Hourly maintenance rate using the 4-2-1 rule: 50 mL/hr For a child weighing 32 kg, using the Holliday-Segar method, the calculation involves: * First 10 kg: 1000 ml * Next 10 to 20 kg: 500 ml * Remaining 12 kg: 240 ml * Total fluids per day: 1740ml of fluid in 24hrs (per day) Using the 4-2-1 rule, for a child weighing 32 kg, the calculation involves: * First 10 kg: 40 mL/hr * Next 10 to 20 kg: 20 mL/hr * Remaining 12 kg: 12 mL/hr * Total hourly rate: 72 mL/hr The recommended daily maintenance fluid requirement for a child weighing 32 kg is approximately 1740 mL per day. To calculate the hourly rate, the 4-2-1 rule can be applied, which involves dividing the child's weight into three categories and assigning specific fluid rates to each category. For a 32 kg child, this results in an hourly maintenance fluid requirement of 72 mL/hr.