

- Radiant warmer (preterm infant)
- Phototherapy (infants)
- Postoperative bowel surgery (e.g., gastroschisis)

**Decreased requirements:**

- Heart failure
- Syndrome of inappropriate antidiuretic hormone (SIADH)
- Mechanical ventilation
- After surgery
- Oliguric renal failure
- Increased intracranial pressure

Basal maintenance calculations for required body water are based on the body's requirements for water in a normometabolic state at rest; estimated fluid requirements are then increased or decreased from these parameters based on increased or decreased water losses, such as with elevated body temperature (increased) or heart failure (decreased). Daily maintenance fluid requirements for infants, toddlers, and older children are listed in [Table 22-1](#).

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**TABLE 22-1**  
**Daily Maintenance Fluid Requirements\***

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Body Weight	Amount of Fluid per Day
1 to 10 kg	100 ml/kg
11 to 20 kg	1000 ml plus 50 ml/kg for each kg >10 kg
>20 kg	1500 ml plus 20 ml/kg for each kg >20 kg

\*Not appropriate for neonatal use.