Health problem addressed

Pediatric beds are designed for infants, toddlers, and young children who are patients in healthcare facilities.

Product description

Pediatric beds resemble cribs used in the home. Features may include: foot, head, and knee sections that can be raised to permit Trendelenburg, reverse-Trendelenburg, and Fowler positioning; handles, straps, or cranks that allow mattress support-surface adjustments to be made from outside; siderails and end sections that can be lowered to the level of the mattress surface to give caregivers full access to patient; semidetachable slats that provide access through siderails to allow drainage or other equipment to be moved inside the bed; mechanisms that close openings at the head or foot section when one end of the mattress is raised; locking casters; safety canopy tops.

Principles of operation

Pediatric beds and their features prevent infants, toddlers, and young children from climbing over the siderails, falling through openings, or being trapped in a way that could cause injury and also facilitate caregiver access during treatment.

Operating steps

- Make the necessary adjustments for the specific patient.
- Place patient in pediatric bed.
- Set alarms (e.g., electronic sensors that sound an alarm if siderails are not locked in the upright position).
- If electrically powered positioning controls are available, caregivers must lock out controls.

Reported problems

Children can become entrapped between the bottom edge of the canopy top and the top of the siderails if it is not properly secured when closed, or is accidentally left up. Toxic levels of gas can become trapped in fluffy bedding, causing children to be suffocated by their own exhaled carbon dioxide. Caregivers should be able to lock out bed-positioning controls so the risk of accidental injuries or death can be avoided.

Use and maintenance

User(s): Physicians, nurses, other medical staff
Maintenance: Medical staff; technician; biomedical engineering staff and/or service contract with the manufacturer or third-party organization
Training: Initial training by manufacturer and manuals

Environment of use

Settings of use: Hospital, intra-hospital transport
Requirements: Adequate floor space

Product specifications

Approx. dimensions (mm): 750 x 1200 x 1500
Approx. weight (kg): 50
Consumables: NA
Price range (USD): 470-4,400 (2,500 typical); price covers all types and variations
Typical product life time: 15 years
Shelf life (consumables): NA

Types and variations

- Fixed
- Mechanical
- Neonatal
- Pediatric