

Crown Cradle™: A preemie orthotic device to support the development of an infant's natural head shape

The Crown Cradle is a non-invasive, non-restrictive, adjustable device that comes in two sizes (Small for babies <1800 g and Large for babies 1800-3600 g). Each system contains a mattress, four foam inserts in increasing sizes that support the head, a cloth cover, and a 'plug' to fill in the recessed area when baby is in prone position.

Dandle·LION™
MEDICAL

US Patent Nos
7,810,501, 8,186,354, & 8,756,283

WARNINGS:

- For use by hospital staff with hospitalized infants.
- In order to prevent airway obstruction, do not place infant prone or side-lying so that the infant's face is situated in the recessed area of the mattress.
- When infant is in supine position, ensure that the infant's neck is not hyperextended and that the head is not tilted toward the chest thereby occluding the airway. Change foam insert size to ensure proper head and neck alignment.
- Do not insert needles or pins into the mattress, as this may compromise integrity of the mattress covering and create a contamination/infection risk.

CAUTION:

- Regularly inspect the Crown Cradle mattress for any visible signs of damage and discard damaged mattress.

CLEANING INSTRUCTIONS:

- The reusable Crown Cradle mattress, plug, and foam inserts should be wiped clean with a standard hospital quaternary disinfectant any time they become soiled and between patient use.
- Fabric mattress cover should be laundered at temperatures no greater than 170°F with non-chlorine bleach. Please see additional laundering guidelines at www.dandelionmedical.com/laundry

INSTRUCTIONS FOR USE:

- Use the Crown Cradle mattress on the NICU bed mattress.
- Following hospital protocol, maintain routine position changes.
- Ensure the safe placement of medical equipment/devices while infant is on the Crown Cradle.

To Position Baby in Supine or Side-Lying:

- Determine the appropriate mattress and foam insert sizes based on the infant's weight. Start by using the following recommendations:

SMALL MATTRESS (babies < 1800 g)		LARGE MATTRESS (babies 1800-3600 g)	
< 750 g	Foam Insert size 1	1800-2150 g	Foam Insert size 5
750-1000 g	Foam Insert size 2	2150-2500 g	Foam Insert size 6
1000-1400 g	Foam Insert size 3	2500-3050 g	Foam Insert size 7
1400-1800 g	Foam Insert size 4	3050-3600 g	Foam Insert size 8

A properly-fitted foam insert will allow for approximately 1/8" of space on all sides of the infant's head. The infant's head, neck, and spine should be in a neutral position. The head and neck should not be flexed (foam insert too small) or extended (foam insert too large). Size foam insert up or down as necessary.

Note: When obtaining the infant's weekly growth measurements, check the foam insert size to determine if it needs to be upsized.

- To assemble the Crown Cradle:
 - Slide the mattress into the fabric mattress cover with the cup indentation at the top (open end of cover). The unquilted portion of the mattress cover should lie over the cup indentation and the quilted portion should be positioned over the lower half of the mattress.
 - Slide the desired size foam insert into the pocket on the inside of the fabric mattress cover and position the cup inside the recessed area of the mattress.
 - Pull the cover up over the mattress, ensuring the foam insert is stable in the recessed area, and tuck the flap in under the Crown Cradle mattress.
- Place infant supine or semi-side-lying on the Crown Cradle, with the infant's head comfortably supported by the foam insert.
 - Gel pillows and other positioning aids should not be used under the infant's head.
 - Position the infant in a flexed, midline, and contained position. We recommend using the Dandle WRAP Stretch and/or the Dandle PAL or Cozy Cub to support developmentally-supportive positioning. It is helpful to use a positioner at the infant's feet to prevent the infant from sliding down on the mattress. Stabilize the infant's position by crossing the mattress cover straps over the infant, as well as any positioning aids used, and then tucking the straps under the Crown Cradle mattress.

To Position Baby in Prone:

- To position the infant prone, first remove the foam insert, then insert the plug into the recessed area of the mattress so it lies flat with the mattress base.
- Use a prone roll or positioner under the trunk and head to help position the infant in a flexed, midline, and contained position. We recommend using the Dandle WRAP Stretch and/or the Dandle PAL or Cozy Cub to support developmentally-supportive positioning. It is helpful to use a positioner at the infant's feet to prevent the infant from sliding down on the mattress. Stabilize the infant's position by crossing the mattress cover straps over the infant, as well as any positioning aids used, and then tucking the straps under the Crown Cradle mattress.

