

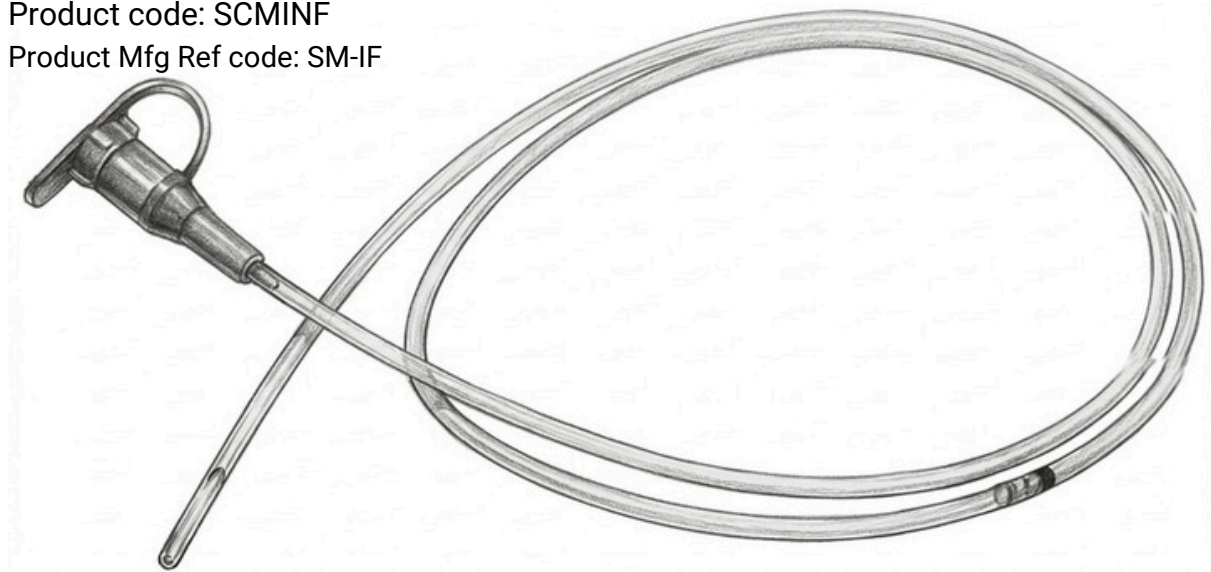
KLEINLINE™

Generic name: Infant feeding tube /orogastric tube

Brand name: KLEINLINE

Product code: SCMINF

Product Mfg Ref code: SM-IF



KLEINLINE is typically made from soft, biocompatible materials to ensure safety and comfort. It is inserted through the nose (nasogastric) or mouth (orogastric) into the stomach.

Material specifications:

- Tube material: Medical grade PVC
- Connector material: Color-coded PP
- Surface: smooth, non-toxic, kink resistant
- Latex free
- Available sizes: 5Fr, 6Fr, 7Fr, 8 Fr 9Fr, 10Fr
- Standard length is 50cm

Size specifications: Measured in French (Fr) scale

Size (Fr)	Color code	OD
5	Grey	1.7mm
6	Light green	2.0mm
7	White	2.3mm
8	Blue	2.7mm
9	Orange	3.0mm
10	Black	3.3mm

Design features:

- Graduations at every 1 cm
- Bold markings at 10 cm intervals
- Helps in accurate placement inside the stomach
- Two lateral eyes near the distal end
- Smooth, rounded closed tip

Preparation and Insertion

Before starting, always wash your hands with soap and water.

- **Measure the Tube:** To determine insertion depth for a baby, use the NEMU method (Nose, Earlobe, Mid-Umbilicus), measuring from the nose to the earlobe and then to the midpoint between the breastbone and belly button.
- **Position the Infant:** Swaddle the infant to keep their arms still. Place them on their back with their head slightly raised.
- **Insertion:** Lubricate the tip of KLEINLINE with water or a water-soluble lubricant. Gently insert KLEINLINE into the nostril, pushing it toward the back of the throat until the mark reaches the nostril. Offering a pacifier during this process can help the baby swallow the tube more easily.
 - **Alternative Entry (OG Tube):** In the NICU, babies often use an orogastric (OG) route, which enters through the mouth. This is common for premature babies because a nasal tube can interfere with their breathing.
- **Verify Placement:** Always check the position before every feeding. Use a syringe to withdraw a small amount of stomach fluid and test it with a pH strip; a pH of 5.5 or less typically confirms correct placement in the stomach. Ensure the mark is still at the nostril.

Feeding Methods

- **Gravity Feeding:** Remove the plunger from a syringe and attach the syringe barrel to the feeding tube. Pour the milk into the syringe and let it flow by gravity. Adjust the flow rate by raising or lowering the syringe (no higher than 6–10 inches above the stomach).
- **Pump Feeding:** Use a specialized feeding pump for a continuous or controlled flow. Follow your healthcare team's instructions for setting the rate and volume.

Post-Feeding Care

- **Flush the Tube:** After every feeding, flush the tube with 2–5 mL of water (or the amount prescribed) to prevent clogs.
- **Positioning:** Keep the infant's head and shoulders elevated for at least 30–60 minutes after feeding to prevent reflux and vomiting.

- Burping: Burp the baby after tube feeding just as you would after a bottle feeding.

Daily Maintenance and Safety

- Skin Care: Clean the area around the nostril daily with warm water and a soft cloth. Check for any redness, swelling, or irritation.
- Tube Replacement: KLEINLINE are typically replaced once a month, or sooner if they become clogged or damaged. Rotate which nostril is used each time you replace the tube to avoid irritation.
- Equipment: Wash syringes and bags with warm soapy water, rinse well, and air dry after each use.

Warning Signs

- Stop the feeding immediately and contact your doctor if the infant:
 - Has trouble breathing or turns blue.
 - Vomits or has a very swollen abdomen.
 - Gags or coughs excessively.