

# Tube-Feeding a Calf

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## Why Tube-Feed?

- Ensure that newborn calves receive colostrum within 24 hours of birth. Ideally, calves should have colostrum within 1–2 hours after birth. After 24 hours, a calf's intestines cannot absorb antibodies (Waechter-Mead, 2022).
- Provide milk if calves are unable to nurse or suck from the nipple bottle.
- Provide electrolytes when sick.

## Materials

Various types of tubes are available for tube-feeding (Figure 1).

- **Esophageal tubes**
  - Shorter, extending just past the larynx (throat).
  - You can feel the rounded end in the esophagus.
- **Foal tubes**
  - Longer, passing through the esophagus and into the stomach.
  - Reduces the chance of getting fluid in the lungs.

## Tube-Feeding Steps



Figure 1. Various Types

of Tubes

### 1. Restrain the calf.

- Position a standing calf between your legs and guide it backward into a corner, ensuring its head remains upright.
- If the calf is unable to stand but can still swallow, place the calf on its sternum, and support its head to keep it elevated.

### 2. Measure the tube.

- Distance should be measured from the tip of the nose to the elbow and **marked on the tube**. This is the approximate length at which it should be inserted. See Figure 2 (McGill, 2023).

### 3. Insert the tube.

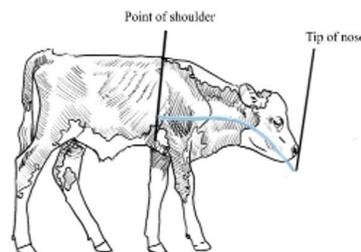


Figure 2. Measure the

Distance Between Tip of Nose and Point of Shoulder, Then Mark the Tube

- Keep the tube free from fluids during insertion.
- Lubricate the probe with a small amount of vegetable oil, mineral oil, or veterinary-grade obstetrical lubricant.
- Raise the calf's head and squeeze the sides of the mouth gently to open its mouth. The calf's head should be in a neutral position. If it is too extended,

the feeding tube has a greater chance of entering the trachea, which leads to the lungs. If fluid enters the trachea, the calf can aspirate.

- Slowly push the tube to the back of the mouth, aiming for the left of the throat.
- Wait for the calf to swallow.
- Once the calf swallows the end of the feeder, slide the tube gently down the esophagus to the mark made previously on the tube.
- Stop immediately if you feel any resistance; pull the tube out slightly, and redirect. **Never force the tube.**
- When the tube is in the correct place, the calf should appear comfortable and be able to swallow (Figure 3; Malacco et al., 2023).

#### 4. Check the tube.

- Palpate the left side of the calf's neck to ensure proper tube placement.
- When the tube is in the correct position, you will feel two tube-like structures (windpipe and esophagus with the feeding tube).
- The trachea is firm and has ridges obvious to the touch.
- The esophagus is soft and collapsible and can only be felt with a tube inserted.
- If only one tubular structure can be felt, the tube is in the trachea; you might also feel air escaping the tube. Remove the tube and insert it again following the steps previously mentioned.

#### 5. Administer fluids.

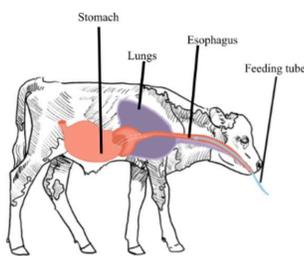


Figure 3. Diagram of

#### Proper Tube Placement

- If the calf is comfortable and the tube has been placed correctly, the fluid can be introduced.
- Liquid should be body temperature, 98 °F to 100 °F.
- Allow the fluid to flow by gravity. The calf may move around when it feels pressure in the rumen (stomach).
- Administer the colostrum by raising the bag above the calf and allowing the fluid to flow by

gravity. Never squeeze the bag to hurry the process (Arnold, n.d.).

- Feed 1.5–2 quarts. Split the feeding into smaller volumes if it's uncertain how much the calf has consumed.

#### 6. Remove and clean the tube.

- Wait until all liquid has exited the tube and passed down the esophagus.
- Kink the feeding tube to stop the flow of fluid.
- Hold the calf still and gently pull out the tube in one swift motion.
- Clean the feeding tube immediately so it is ready for the next use.
- Rinse with cold water and then wash in hot, soapy water.
- Follow with a chlorine and hot water rinse.
- Hang the tube to drain and dry.

### Illustration Credit

Rebekah Esplin, USU Extension, provided the illustrations in this fact sheet.

### References

- Arnold, M. (n.d.). *The esophageal feeder - a life saving tool for calves* [Fact sheet]. Department of Animal & Food Sciences, University of Kentucky. <https://afs.ca.uky.edu/dairy/esophageal-feeder-life-saving-tool-calves>
- Malacco, V., Sanguesa, P. B., & Lage, C. (2023, January 10). *Steps for tube-feeding calves* [Fact sheet]. Michigan State University Extension. <https://www.canr.msu.edu/resources/steps-for-tube-feeding-calves>
- McGill. (2023). *Tube feeding a calf* [Fact sheet, DC-506]. [dc-506\\_tube\\_feeding\\_a\\_calf.pdf \(mcgill.ca\)](https://www.mcgill.ca/dc-506_tube_feeding_a_calf.pdf)
- Waechter-Mead, L. (2022, March 1). *How colostrum works, why calves need it, and what to do if they aren't getting it*. University of Nebraska - Lincoln. <https://beef.unl.edu/beefwatch/2022/colostrum-101/>



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