ACCURACY WITH INFINITY FEEDING PUMPS

WHAT IS ACCURACY?

The Infinity pump maintains ± 5% accuracy at any flow rate and when operated in any orientation. This means that at the end of a feed, the Infinity pump should have delivered the original programmed dose volume within plus or minus 5%.

For example, if the pump was programmed to deliver 100 mL over 60 minutes, at the end of the hour of feeding it is expected that anywhere between 95 and 105 mL of formula would have been delivered.

TIPS FOR OPTIMAL ACCURACY

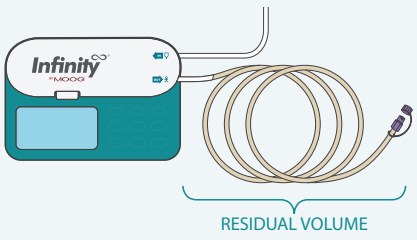
While this accuracy measurement is a good starting point, it is important to remember that accuracy can be impacted by how the pump is being used. Here are a few tips to follow to achieve optimal accuracy.

REMINDER: *The disposable bag set must be replaced every 24 hours and spike sets must be replaced every 48 hours to maintain delivery accuracy.*

Premeasure the formula before putting it in the bag

1. Premeasure the formula to be delivered into a measuring container
2. Add additional formula to account for appropriate residual volume*

* Residual volume is the amount of formula left in the tubing once the dose has been delivered.



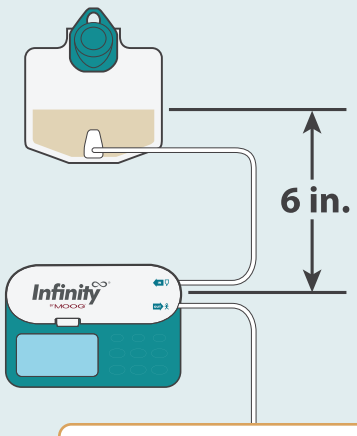
Residual volume in the Infinity pump is ~11.5 mL

Residual volume in the Infinity Orange pump is ~1.5 mL

Check the position of the pump and the delivery set

The Infinity pump can be operated in any orientation, and can be placed in a convenient carry pack.

However, for optimal accuracy, the delivery set should be positioned so that the top of the formula is 6 inches from the middle of the pump door, as shown in the illustration below.



Clear Volume before starting a new feeding

If the dose from the previous feeding was not completed and if the volume counter was not reset prior to starting a new feeding, the DOSE DONE alarm may sound prematurely. In this case the pump is still trying to finish the previous dose, even though a new feeding has started.

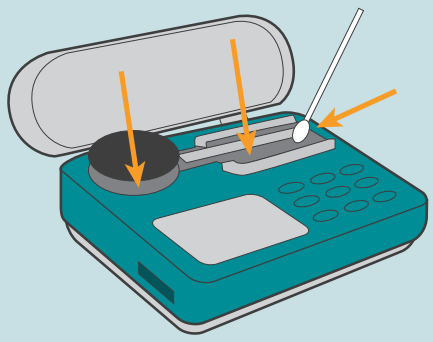
To clear the volume counter:

1. Press **VOL/TOTAL** button once
2. Press **CLEAR** button once
3. Confirm that screen displays 0 mL

Inspect the sensors

It is important to keep the sensor area free of debris, including spilled fluids or food, that may adhere to the sensor and prevent proper detection of air in the tubing.

If necessary, use a cotton swab to clean the pathways around where the cassette is placed into the pump.



WHEN FINISHED WITH A FEEDING

When a feeding is finished, you may get either a **NO FOOD** or **DOSE DONE** alarm. The information below explains why each alarm may sound at the end of a feeding.

Note that it is normal to see formula left in the tubing when finished with a feeding (this is called residual volume).

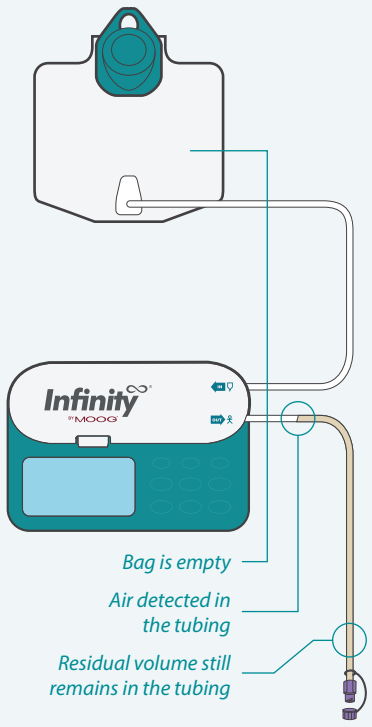
The NO FOOD alarm occurs because the pump has detected air in the tubing.

This can happen when not enough formula was placed in the bag to compensate for the residual volume.

When adding premeasured formula to the bag, be sure to include enough formula to compensate for the residual volume. Use the table below as a guide. For this example, a dose of 300 mL was chosen.

Dose to be delivered		**300 mL**
Residual volume	+	**11.5 mL**
Total		**311.5 mL**

A minimum of 311.5 mL of formula should be premeasured and added to the bag to ensure that the 300 mL is delivered to the patient.



The DOSE DONE alarm occurs when the pump's volume counter reaches the programmed dose to be delivered.

Use the table below to understand what was delivered.
For this example, a dose of 300 mL was chosen.

Programmed dose	**300 mL**
Accuracy variation	**± 5%, or 15 mL** (± 5% of 300 mL = 15 mL)
Pump display	**300 mL delivered**
Actual formula delivered	**Between 285 - 315 mL**

Remember, although the pump says 300 mL of formula was delivered, the actual amount delivered could be between 285 and 315 mL. It is important to visually inspect the delivery set to estimate how much was actually fed.

REMINDER: *The use of commercially available blenderized formula (HCPCS Code: B4149) can impact pump accuracy and performance. To learn more about understanding the potential issues when delivering blenderized formulas, please see our "Feeding Blenderized Food" infographic. Scan the QR code to the right or click the link below.*

https://www.moogmedical.com/feeding-blenderized-food/

Infinity® Enteral Feeding Pump BY MOOG®

MD-66200 Rev. A