

**ICU GUIDELINE: ADJUSTING GOAL FEED RATES IN THE PATIENT
RECEIVING A PROPOFOL INFUSION**

Propofol is a lipid solution containing 1.1 kcal /mL. When provided at an infusion rate exceeding 20 mL/hr, the caloric value of the propofol in combination with feeds can lead to significant overfeeding. Overfeeding is associated with hyperglycemia, fatty liver, hypertriglyceridemia, and excess CO₂ production.

ADJUST FEED RATE ONLY IF ALL OF THE FOLLOWING CRITERIA ARE MET

- Feeds at final goal rate and well tolerated (GRV < 250 mL/4h) x 24 hrs.
- Propofol provided as an hourly infusion (not as a bolus).
- Propofol already provided for > 24 hrs.
- Propofol expected to continue for an additional > 24 hrs.
- Propofol average hourly infusion rate \geq 20 mL/hr.

IF ALL OF THE ABOVE CRITERIA MET, PROCEED AS FOLLOWS

A) ADJUSTMENT OF FEED RATE:

1.0 – 1.2 kcal/ml feed (i.e. Isosource; Promote):

Reduce feed rate *equivalent* to the propofol infusion rate.

Example: propofol infusion rate 30 mL/hr; decrease Isosource feed rate by 30 mL/hr.

Sample MD order:

Receiving propofol: Isosource goal rate: 50 mL/hr

Not receiving propofol: Isosource goal rate: 80 mL/hr

1.5 - 2.0 kcal/mL feed (i.e. Resource 2.0; for other - see next page over)

Reduce feed rate by 50% (1/2) of the hourly propofol infusion rate.

Example: propofol infusion rate 30 mL/hr; decrease Resource 2 feed rate by 15 mL/hr.

Sample MD order:

Receiving propofol: Resource 2 goal rate 35 mL/hr.

Not receiving propofol: Resource 2 goal rate 50 mL/hr

B) DOCUMENTATION/COMMUNICATION OF FEED RATE:

In order to prevent significant under/overfeeding, an MD order that states both goal feed rates (*receiving propofol* and *not receiving propofol*) is required (as is the transcription of the MD order onto the nursing cardex). See sample MD orders noted above

NOTE: Regardless of the propofol infusion rate, do not reduce feed rate to <10 mL/hr.

Developed by: J. Greenwood, RD, Clinical Dietitian Specialist, VCHA-VA. Reviewed by members of the ICU QI Committee 11/7/2008. Update 11/8/2008.

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Propofol hourly infusion rate	Reduce hourly rate of a 1.0 – 1.2 kcal/ml feed	Reduce hourly rate of a 1.5 - 2.0 kcal/mL feed
	<u>Example:</u> a) Promote (1.0 kcal/mL) b) 1:1 mixture of Promote and Isosource (1.1 kcal/mL) c) Isosource (1.2 kcal/mL) by	<u>Example:</u> a) 1:1 mixture of Promote and Resource 2 (1.5 kcal/mL) b) Resource 2 (2 kcal/mL) c) Novasource Renal (2 kcal/mL) by
ml/hr	ml/hr	ml/hr
20	20	10
30	30	15
40	40	20
50	50	25

NOTE: Regardless of propofol infusion rate, it is desirable not to reduce the feed rate to <10 mL/hr.

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