



Volume Based Feeding Schedule

Goal total mL formula per 24h	Hours remaining in the day to feed 24h volume																							
	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
2400	100	104	109	114	120	126	133	141	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2350	98	102	107	112	118	124	131	138	147	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2300	96	100	105	110	115	121	128	135	144	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2250	94	98	102	107	113	118	125	132	141	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2200	92	96	100	105	110	116	122	129	138	147	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2150	90	93	98	102	108	113	119	126	134	143	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2100	88	91	95	100	105	111	117	124	131	140	150	150	150	150	150	150	150	150	150	150	150	150	150	150
2050	85	89	93	98	103	108	114	121	128	137	146	150	150	150	150	150	150	150	150	150	150	150	150	150
2000	83	87	91	95	100	105	111	118	125	133	143	150	150	150	150	150	150	150	150	150	150	150	150	150
1950	81	85	89	93	98	103	108	115	122	130	139	150	150	150	150	150	150	150	150	150	150	150	150	150
1900	79	83	86	90	95	100	106	112	119	127	136	146	150	150	150	150	150	150	150	150	150	150	150	150
1850	77	80	84	88	93	97	103	109	116	123	132	142	150	150	150	150	150	150	150	150	150	150	150	150
1800	75	78	82	86	90	95	100	106	113	120	129	138	150	150	150	150	150	150	150	150	150	150	150	150
1750	73	76	80	83	88	92	97	103	109	117	125	135	146	150	150	150	150	150	150	150	150	150	150	150
1700	71	74	77	81	85	89	94	100	106	113	121	131	142	150	150	150	150	150	150	150	150	150	150	150
1650	69	72	75	79	83	87	92	97	103	110	118	127	138	150	150	150	150	150	150	150	150	150	150	150
1600	67	70	73	76	80	84	89	94	100	107	114	123	133	145	150	150	150	150	150	150	150	150	150	150
1550	65	67	70	74	78	82	86	91	97	103	111	119	129	141	150	150	150	150	150	150	150	150	150	150
1500	63	65	68	71	75	79	83	88	94	100	107	115	125	136	150	150	150	150	150	150	150	150	150	150
1450	60	63	66	69	73	76	81	85	91	97	104	112	121	132	145	150	150	150	150	150	150	150	150	150
1400	58	61	64	67	70	74	78	82	88	93	100	108	117	127	140	150	150	150	150	150	150	150	150	150
1350	56	59	61	64	68	71	75	79	84	90	96	104	113	123	135	150	150	150	150	150	150	150	150	150
1300	54	57	59	62	65	68	72	76	81	87	93	100	108	118	130	144	150	150	150	150	150	150	150	150
1250	52	54	57	60	63	66	69	74	78	83	89	96	104	114	125	139	150	150	150	150	150	150	150	150
1200	50	52	55	57	60	63	67	71	75	80	86	92	100	109	120	133	150	150	150	150	150	150	150	150
1150	48	50	52	55	58	61	64	68	72	77	82	88	96	105	115	128	144	150	150	150	150	150	150	150
1100	46	48	50	52	55	58	61	65	69	73	79	85	92	100	110	122	138	150	150	150	150	150	150	150
1050	44	46	48	50	53	55	58	62	66	70	75	81	88	95	105	117	131	150	150	150	150	150	150	150
1000	42	43	45	48	50	53	56	59	63	67	71	77	83	91	100	111	125	143	150	150	150	150	150	150
950	40	41	43	45	48	50	53	56	59	63	68	73	79	86	95	106	119	136	150	150	150	150	150	150
900	38	39	41	43	45	47	50	53	56	60	64	69	75	82	90	100	113	129	150	150	150	150	150	150
850	35	37	39	40	43	45	47	50	53	57	61	65	71	77	85	94	106	121	142	150	150	150	150	150
800	33	35	36	38	40	42	44	47	50	53	57	62	67	73	80	89	100	114	133	150	150	150	150	150
750	31	33	34	36	38	39	42	44	47	50	54	58	63	68	75	83	94	107	125	150	150	150	150	150
700	29	30	32	33	35	37	39	41	44	47	50	54	58	64	70	78	88	100	117	140	150	150	150	150
650	27	28	30	31	33	34	36	38	41	43	46	50	54	59	65	72	81	93	108	130	150	150	150	150
600	25	26	27	29	30	32	33	35	38	40	43	46	50	55	60	67	75	86	100	120	150	150	150	150
550	23	24	25	26	28	29	31	32	34	37	39	42	46	50	55	61	69	79	92	110	138	150	150	150
500	21	22	23	24	25	26	28	29	31	33	36	38	42	45	50	56	63	71	83	100	125	150	150	150



Nursing Instructions for Physician Ordered 24 hour Volume-Based Enteral Feeding

If the dietitian has not yet assessed the patient on day 2, when volume-based feedings are ordered by a physician, use a weight-based target volume until the dietitian assesses the patient:

Weight	24-hour target volume with a 1.5 cal/mL feeding
≤50 kg	700mL/24hrs
50.1-65 kg	900mL/24hrs
65.1-80 kg	1100mL/24hrs

Weight	24-hour target volume with a 1.5 cal/mL feeding
80.1-95 kg	1300mL/24hrs
≥95.1 kg	1600mL/24hrs

Example:

- Order for volume based enteral feeding will be the total volume goal for 24 hours. The 24 hour period corresponds to the flow sheet (i.e X am to X am each day).
- If the total volume ordered is 1800 mL, the hourly rate is 75 mL/hour. If the patient was fed 450 mL of feeding (6 hours) and the tube feeding is on "hold" for 5 hours, then subtract from the goal volume the amount of feeding the patient has already received.

$$\text{Volume Ordered per 24 hours } 1800 \text{ mL} - \text{Tube feeding in (current day) } 450 = \text{Volume of feeding remaining in day to feed } 1350 \text{ mL}$$

Patient now has 13 hours left in the day to receive 1350 mL of tube feeding.

- Check the chart for the new goal rate based on the number of hours remaining in the current 24 hr period. Select the goal rate closest to volume needed.
- In this example it would be 1350. Next go to column 13 (the number of hours remaining to feed) and the amount of feeding to provide will be 104 mL/hour. In this example the patient will receive a total volume of 1352 mL for the remaining hours in the day.

Important Nursing Assessment

Volume based feeding should be used with caution. Nurses should always assess for feeding intolerance. Examples of intolerance include: abdominal distention, abdominal cramping, nausea & vomiting, diarrhea defined as 5 stools or 750 mL per 24h period, and gastric residuals greater than *300 mL.

*Sites may customize the gastric residual volume threshold in keeping with their current practice and best available evidence which supports a gastric residual volume between 250 – 500 mL. Source: 2012 Canadian Clinical Practice Guidelines www.criticalcarenutrition.com, 2009 ASPEN/SCCM Guidelines.

Please contact your ICU dietitian or PIT (Protocol Implementation Team) Crew if you have any questions