**Volume Based Feeding Schedule**

|  | **Hours remaining in the day to feed 24h volume** | | | | | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Goal total mL formula per 24h** | **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 to commence, use a weight-based target volume until the dietitian assesses the patient:

|  |  |
| --- | --- |
| **Weight** | **24-hour target volume** |
| ≤50 kg | 700mL/24hrs |
| 50.1-65 kg | 900mL/24hrs |
| 65.1-80 kg | 1100mL/24hrs |
| **Weight** | **24-hour target volume** |
| 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.

**Volume Ordered per 24 hours 1800 mL – Tube feeding in (current day) 450 = Volume of feeding remaining in day to feed**

1800 – 450 = 1350 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.



Please contact your ICU dietitian or PIT Crew if you have any questions