

Example 3 — Atlanta Medical Center Protocol

Osborne RC, Cook CB, Stockton L, et al. *Diabetes Educ.* 2006;32:394–403.

A 10-column method

<p>Instructions: Start infusion using the drip rate (ml/hr) shown in COLUMN 2 for the current Blood Glucose Range.</p> <p>To determine the new drip rate for each hourly measurement, compare the current BG Range to the previous BG Range. If the current BG Range is lower than the previous BG Range:</p> <p>Stay In The Same Column. If the current BG Range is the same or higher than the previous BG Range:</p> <p>Move 1 Column To The Right. <i>If more than 10 columns are needed:</i> * Column 11 = Column 10 + Column 1 * Column 12 = Column 10 + Column 2 (etc.)</p> <p>When hourly BG 80-110, stay in the same column to determine the new drip rate. Do Not Change Columns</p> <p>When hourly BG < 80, Move 1 Column To The Left and treat for hypoglycemia as shown below</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Blood Glucose Range (mg/dl)</th> <th>column 1 (ml/hr)</th> <th>column 2 (ml/hr)</th> <th>column 3 (ml/hr)</th> <th>column 4 (ml/hr)</th> <th>column 5 (ml/hr)</th> <th>column 6 (ml/hr)</th> <th>column 7 (ml/hr)</th> <th>column 8 (ml/hr)</th> <th>column 9 (ml/hr)</th> <th>column 10 (ml/hr)</th> </tr> </thead> <tbody> <tr><td>> 450</td><td>4.4</td><td>8.8</td><td>13.2</td><td>17.6</td><td>22.0</td><td>26.4</td><td>30.8</td><td>35.2</td><td>39.6</td><td>44.0</td></tr> <tr><td>385-450</td><td>3.6</td><td>7.2</td><td>10.8</td><td>14.4</td><td>18.0</td><td>21.6</td><td>25.2</td><td>28.8</td><td>32.4</td><td>36.0</td></tr> <tr><td>334-384</td><td>3.0</td><td>6.0</td><td>9.0</td><td>12.0</td><td>15.0</td><td>18.0</td><td>21.0</td><td>24.0</td><td>27.0</td><td>30.0</td></tr> <tr><td>290-333</td><td>2.5</td><td>5.0</td><td>7.5</td><td>10.0</td><td>12.5</td><td>15.0</td><td>17.5</td><td>20.0</td><td>22.5</td><td>25.0</td></tr> <tr><td>251-289</td><td>2.1</td><td>4.2</td><td>6.3</td><td>8.4</td><td>10.5</td><td>12.6</td><td>14.7</td><td>16.8</td><td>18.9</td><td>21.0</td></tr> <tr><td>217-250</td><td>1.7</td><td>3.4</td><td>5.1</td><td>6.8</td><td>8.5</td><td>10.2</td><td>11.9</td><td>13.6</td><td>15.3</td><td>17.0</td></tr> <tr><td>188-216</td><td>1.4</td><td>2.8</td><td>4.2</td><td>5.6</td><td>7.0</td><td>8.4</td><td>9.8</td><td>11.2</td><td>12.6</td><td>14.0</td></tr> <tr><td>163-187</td><td>1.2</td><td>2.4</td><td>3.6</td><td>4.8</td><td>6.0</td><td>7.2</td><td>8.4</td><td>9.6</td><td>10.8</td><td>12.0</td></tr> <tr><td>141-162</td><td>1.0</td><td>2.0</td><td>3.0</td><td>4.0</td><td>5.0</td><td>6.0</td><td>7.0</td><td>8.0</td><td>9.0</td><td>10.0</td></tr> <tr><td>21-140</td><td>0.8</td><td>1.6</td><td>2.4</td><td>3.2</td><td>4.0</td><td>4.8</td><td>5.6</td><td>6.4</td><td>7.2</td><td>8.0</td></tr> <tr><td>111-120</td><td>0.6</td><td>1.2</td><td>1.8</td><td>2.4</td><td>3.0</td><td>3.6</td><td>4.2</td><td>4.8</td><td>5.4</td><td>6.0</td></tr> <tr><td>106-110</td><td>0.5</td><td>1.0</td><td>1.5</td><td>2.0</td><td>2.5</td><td>3.0</td><td>3.5</td><td>4.0</td><td>4.5</td><td>5.0</td></tr> <tr><td>101-105</td><td>0.4</td><td>0.9</td><td>1.3</td><td>1.8</td><td>2.2</td><td>2.7</td><td>3.1</td><td>3.6</td><td>4.0</td><td>4.5</td></tr> <tr><td>96-100</td><td>0.4</td><td>0.8</td><td>1.2</td><td>1.6</td><td>2.0</td><td>2.4</td><td>2.8</td><td>3.2</td><td>3.6</td><td>4.0</td></tr> <tr><td>91-95</td><td>0.3</td><td>0.7</td><td>1.0</td><td>1.4</td><td>1.7</td><td>2.1</td><td>2.4</td><td>2.8</td><td>3.2</td><td>3.5</td></tr> <tr><td>86-90</td><td>0.3</td><td>0.6</td><td>0.9</td><td>1.2</td><td>1.5</td><td>1.8</td><td>2.1</td><td>2.4</td><td>2.7</td><td>3.0</td></tr> <tr><td>80-85</td><td>0.2</td><td>0.5</td><td>0.7</td><td>1.0</td><td>1.2</td><td>1.5</td><td>1.7</td><td>2.0</td><td>2.3</td><td>2.5</td></tr> <tr><td>75-79</td><td>0.2</td><td>0.4</td><td>0.6</td><td>0.8</td><td>1.0</td><td>1.2</td><td>1.4</td><td>1.6</td><td>1.8</td><td>2.0</td></tr> <tr><td>70-74</td><td>0.1</td><td>0.3</td><td>0.4</td><td>0.6</td><td>0.7</td><td>0.9</td><td>1.0</td><td>1.2</td><td>1.3</td><td>1.5</td></tr> <tr><td>60-69</td><td>0.1</td><td>0.2</td><td>0.3</td><td>0.4</td><td>0.5</td><td>0.6</td><td>0.7</td><td>0.8</td><td>0.9</td><td>1.0</td></tr> <tr><td>< 60</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </tbody> </table>	Blood Glucose Range (mg/dl)	column 1 (ml/hr)	column 2 (ml/hr)	column 3 (ml/hr)	column 4 (ml/hr)	column 5 (ml/hr)	column 6 (ml/hr)	column 7 (ml/hr)	column 8 (ml/hr)	column 9 (ml/hr)	column 10 (ml/hr)	> 450	4.4	8.8	13.2	17.6	22.0	26.4	30.8	35.2	39.6	44.0	385-450	3.6	7.2	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	334-384	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	290-333	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	251-289	2.1	4.2	6.3	8.4	10.5	12.6	14.7	16.8	18.9	21.0	217-250	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17.0	188-216	1.4	2.8	4.2	5.6	7.0	8.4	9.8	11.2	12.6	14.0	163-187	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	141-162	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	21-140	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0	111-120	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	106-110	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	101-105	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.5	96-100	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	91-95	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.2	3.5	86-90	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	80-85	0.2	0.5	0.7	1.0	1.2	1.5	1.7	2.0	2.3	2.5	75-79	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	70-74	0.1	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.3	1.5	60-69	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	< 60	0	0	0	0	0	0	0	0	0	0
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BG	D50W	ACTION
70-79	10.0 ml IV push	<ul style="list-style-type: none"> • If you have not moved 1 column to the left as directed above, do so now. • Recheck BG in 15 minutes • Repeat as necessary
60-69	15.0 ml IV push	
50-59	20.0 ml IV push	<ul style="list-style-type: none"> • If you have not moved 1 column to the left as directed above, do so now. • Recheck BG in 15 minutes • Repeat as necessary • Contact Physician if BG < 60 for 2 consecutive BG measurements.
30-49	25.0 ml IV push	
< 30	30.0 ml IV push	

NOTIFY PHYSICIAN IF:
<ul style="list-style-type: none"> • BG is < 60 for 2 consecutive BG measurements • BG reverts to > 200 for 2 consecutive BG measurements • If an insulin requirement > 24 units/hr does not result in decreased BG. Continue drip process. • If the K+ level drops to < 4 • If drip rate (ml/hr) is 0.5 or less • If continuous enteral feeding, TPN, or IV insulin infusion is stopped or interrupted