

Example 4 — North Carolina Protocol

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TABLE 1. INSULIN INFUSION PROTOCOL TABLE AND PARTIAL INSTRUCTIONS

Column 1		Column 2		Column 3		Column 4		Column 5		Column 6	
BG	Units/h	BG	Units/h	BG	Units/h	BG	Units/h	BG	Units/h	BG	Units/h
<70	0.05	<70	0.05	<70	0.05	<70	0.05	<70	0.05		
70–74	0.1	70–74	0.1	70–74	0.1	70–74	0.1	70–74	0.1		
75–79	0.1	75–79	0.2	75–79	0.2	75–79	0.2	75–79	0.2		
80–84	0.2	80–84	0.2	80–84	0.3	80–84	0.3	80–84	0.3	80–84	0.3
85–89	0.3	85–89	0.4	85–89	0.4	85–89	0.5	85–89	0.6	85–89	0.6
90–94	0.4	90–94	0.6	90–94	0.7	90–94	0.8	90–94	1.0	90–94	1.2
95–99	0.5	95–99	0.8	95–99	1.1	95–99	1.4	95–99	1.9	95–99	2.3
100–104	0.7	100–104	1.3	100–104	1.8	100–104	2.4	100–104	3.3	100–104	4.3
105–109	1	105–109	2	105–109	3	105–109	4	105–109	6	105–109	8
110–127	1.2	110–121	2.3	110–122	3.5	110–127	5	110–122	7	110–127	10
128–144	1.5	122–133	2.6	123–134	4	128–144	6	123–134	8	128–144	12
145–162	1.7	134–144	3	135–147	4.5	145–179	8	135–159	10	145–162	14
163–179	2	145–162	3.5	148–159	5	180–214	10	160–184	12	163–179	16
180–249	3	163–179	4	160–209	7	215–249	12	185–209	14	180–214	20
250–319	4	180–249	6	210–259	9	250–319	16	210–259	18	215–249	24
320–389	5	250–319	8	260–309	11	320–389	20	260–309	22	250–319	32
≥390	6	≥320	10	≥310	13	≥390	24	≥310	26	≥320	40

BG is given in units of mg/dL. Partial instructions are:

- Start insulin drip assigned to Column 2 and adjust drip rate according to Column 2.
 - If BG ≥ 180 for 2 h, **AND NOT FALLING** at least 30 mg/dL each hour, go to next higher column.
 - If BG ≥ 110 at every test time for past 8 h on the current column, go to the next higher column.
 - If BG ≥ 110 now, but if some BG < 110 in past 8 h, do not change column.
 - If 80 ≤ BG < 110 now, and if at least one BG ≥ 110 during past 8 h, do not change column.
 - If on Column 2–6 for past 8 h, **AND BG < 110 at all times for past 8 h**, go to next lower column.
 - If BG < 80 now, and on Column 2–6, go to next lower column, and check BG every 1 h until BG ≥ 80.
 - If BG < 70, treat according to hypoglycemia protocol (not shown) and go to next lower column.
 - Initially, or after any reassignment to a higher column, test BG every 1 h.
 - If on same column for 4 h, may change frequency of BG testing to every 2 h.
- Record insulin drip rate changes on ICU flow sheet. Record column assignments on ICU flow sheet and on the medication administration record.
- Request new glycemic management plan 2 h before discontinuing drip.