

# HHS/Type 2 Protocol - Adult

Ensure you have the correct chart

Document date & time. One chart each 24hrs

Hourly IV insulin rate below BGL

Record ketones, hypos & when MO notified

Instructions for moving between columns

INTRAVENOUS ACTRAPID INFUSION		Affix patient identification label in this box	
HHS / TYPE 2 PROTOCOL - ADULT (MR-INF-B)		UR Number: _____	
Surname: _____		Given name: _____	
Second given name: _____		D.O.B: ____/____/____ Sex: _____	
Hospital: _____		Target BGL range: _____	
<b>BGL Frequency</b> <input type="checkbox"/> Hourly <input type="checkbox"/> 2 Hourly* <small>* (only if BGL is within target range for at least 6 hours. If any alteration in insulin infusion rate, IV fluids or TPN revert to hourly BGL's.)</small>		<b>Dr's Name:</b> _____ <b>Signature:</b> _____ <b>Pager No:</b> _____ <small>Review need for IV Insulin infusion daily before 12 pm. If continuing, rewrite on a new page.</small>	
<b>20..... Day/Month</b> <b>Time</b>		<b>Adult Inpatient</b> 7 to 10 mmol/L	
<b>BGL Record (mmol/L)</b> 20 15 10 5 4 3 2		(Grid for BGL recording)	
If patient remains in column 3 for four measurements, and still has not achieved target, call MO			
<b>BGL reading</b> <b>Insulin infusion rate (Units/hr)</b> <b>Column 1, 2, 3</b> <b>Nurse (s) initials</b> <b>Ketones/Hypo intervention (✓)</b> <b>MO notified (✓)</b>		(Grid for insulin rate, ketones, etc.)	
Intravenous Insulin Protocol HHS/TYPE 2			
Column 1		Column 2	
BGL	Units/hr	BGL	Units/hr
BGL < 4.0 means Hypoglycaemia		BGL < 4.0 means Hypoglycaemia	
<6.4	Off	<6.4	Off
6.5 - 7.9	0.5	6.5 - 7.9	1.0
8.0 - 9.9	1.0	8.0 - 9.9	2.0
10.0 - 11.4	1.5	10.0 - 11.4	3.0
11.5 - 12.9	2.0	11.5 - 12.9	4.0
13.0 - 14.9	3.0	13.0 - 14.9	5.0
15.0 - 16.4	3.0	15.0 - 16.4	6.0
16.5 - 17.9	4.0	16.5 - 17.9	7.0
18.0 - 20.0	5.0	18.0 - 20.0	8.0
>20.0	6.0	>20.0	12.0
Column 3		Column 4	
BGL	Units/hr	BGL	Units/hr
BGL < 4.0 means Hypoglycaemia		BGL < 4.0 means Hypoglycaemia	
<6.4	Off	<6.4	Off
6.5 - 7.9	2.0	6.5 - 7.9	2.0
8.0 - 9.9	4.0	8.0 - 9.9	4.0
10.0 - 11.4	5.0	10.0 - 11.4	5.0
11.5 - 12.9	6.0	11.5 - 12.9	6.0
13.0 - 14.9	8.0	13.0 - 14.9	8.0
15.0 - 16.4	10.0	15.0 - 16.4	10.0
16.5 - 17.9	12.0	16.5 - 17.9	12.0
18.0 - 20.0	14.0	18.0 - 20.0	14.0
>20.0	16.0	>20.0	16.0
New patients always begin in the green column - Column 1 <b>Moving up</b> At each BGL measurement ask the following two questions • Is the patient's BGL 10 mmol/litre or less? • Has the BGL dropped by at least 2.5mmol/litre in the last hour? If the answer to <b>either</b> question is <b>YES</b> - patient remains in the current column. If the answer to <b>both</b> questions is <b>NO</b> - patient moves up <b>one</b> column. <b>Moving Down</b> If BGL <4.0 mmol/L for <b>Two consecutive</b> measurements or insulin has been switched off - patient moves down <b>one</b> column			
NURSING ADMINISTRATION RECORD (Insulin IV infusion)			
Insulin (units) and sodium Chloride 0.9% (mL)	Date/time commenced	Nurse 1	Nurse 2
50 units Actrapid Insulin + 49.5mL Sodium Chloride 0.9%			
50 units Actrapid Insulin + 49.5mL Sodium Chloride 0.9%			
50 units Actrapid Insulin + 49.5mL Sodium Chloride 0.9%			
Time stopped	Volume infused (mL)		

Hourly BGL graphed with dot in centre of square. Eg 16.1 or 16.8 in box corresponding to 16. Numerical BGL in box below.

Document insulin rate column number used eg 1, 2 or 3

Insulin algorithm based on BGL  
Contact Dr if patient remains in column 3 for four(4) measurements

Nursing record of medication checked and commenced