East Sussex Healthcare	NHS
NHS Trust	

Ward	Consultant	Admission Date
	Patient Detai	s

Intravenous Insulin Prescription and Fluid Protocol FOR SURGERY/PRE-OPERATIVE/Nil by Mouth

For use for **ALL ADULT** pre-operative/Nil by Mouth patients receiving Variable Rate Intravenous Insulin Infusion (VRIII)

NOT FOR USE IN CHILDREN

NEVER use an IV syringe to draw up insulin

ALWAYS draw up insulin using an insulin syringe

ALWAYS continue subcutaneous basal insulin

Patient Please attach add		
Surname	First Name	
Hospital Number	NHS Number	
Address		Date of Birth / Age

		Dosing A	Algorithm	
Algorithm →	1	2	3	4
CBG Levels (mmol/L) ♣	Infus	sion Rate (Units/hr =	ml/hr)
<4	STOP		recheck Cl utes)	BG in 10
4.0 - 6.0	0.2	0.5	1	1.5
6.1 - 6.6	0.5	1	2	3
6.7 - 8.2	1	1.5	3	5
8.3 - 9.9	1.5	2	4	7
10 - 11.6	2	3	5	9
11.7 - 13.2	2	4	6	12
13.3 - 14.9	3	5	8	16
15 - 16.6	3	6	10	20
16.7 - 18.2	4	7	12	24
18.3 - 19.9	4	8	14	28
>20	6	12	16	32
Signed				
Print Name				
Date				

		<u></u>
	Algorit	hm Guide
	with capillary blood glucose	ents, pre-operative/ nil by mouth, (CBG) persistently >14 mmol/l Please refer to separate chart
Algorithm 1	Starting point for most patier	nts
Algorithm 2	For patients: Not controlled	by algorithm 1
	On glucocortic	oids
	Receiving > 80	0 units/day as an outpatient
Algorithm 3	For patients not controlled A	lgorithm 2
	No patient starts here with	out medical review
Algorithm 4	For patients not controlled or	n algorithm 3
	No patient starts here	
Patien	its not achieving control with	these algorithms need medical review
Conc	quest: Bleep 2681 or 2969	EDGH: Bleep 0964 or 0867
	Out of Hours: Contact the me	dical SpR on call via switchboard
	Target CBG Le	evels 4-12 mmol/l
	Check CBG every ho	our whilst on IV insulin
Move Up if the (CBG is> 12 mmol/l and has not	reduced by at least 3mmol/L in 1 hour
Move Down wh	en CBG is < 4mmol/L	

Drug	D	Values 5	Doute	Pouto Doctor's Date		Doctor's	Doctor's Dota	SYR	INGE PREPA	RATION	
(approved name)	Dose	Volume	Route	Signature	Date	Prepared & administered by	Date	Time start- ed	Time stopped		
HUMAN		Made up to 50ml									
ACTRAPID	50 UNITS	with SODIUM CHLORIDE 0.9%	IV								
INSULIN		(1 UNIT per ml)									

INTRAVENOUS FLUID MANAGEMENT Prescribe Intravenous fluids on the Intravenous Fluid Prescription Chart (see over)

Fluid of choice Glucose 10%	with Potassium Chloride 0.15% (10mmol) 500ml to run at 50ml/h unless:
	Start with 1 litre Sodium chloride 0.9% with Potassium Chloride 0.15% (20mmol) to run at 50ml/hr until CBG < 12mmol/l When CBG < 12mmol/l change to Glucose 10% with Potassium Chloride 0.15% (10mmol) 500ml to run at 50ml/h Do not change back if CBG subsequently exceeds 12mmol/L
Hyperkalaemia	Glucose 10% 1 litre to run at 50ml/hr
Fluid Overload	Glucose 20% 500ml to run at 25ml/hr

When eating and drinking consider restarting original insulin regimen

Maintain IV infusion for 30 minutes after re-starting original insulin regime—IV insulin has a 5 minute half life

For inform Additives and dose Rate Duration Ro	Patient N	Patient Name & Hospital Number	nber		Infusions	G.							
Solution Volume Additives and dose Rate Duration line						For i	nformation c param or conta	mation on dilutions, infusions rates, compatibilities and meanismeters, consult the Injectable Medicines Guide or contact Medicines Information (13) 3785 / (14) 7067	ns rates, co Injectable rmation (1	mpatibilities Medicines G 3) 3785 / (14)	and mo uide) 7067	nitoring	
	Date	Solution	Volume	Additives and dose	Rate	Duration	Route and line	Prescriber signature & bleep	Batch no.	Given by 2nd Check	Time started s	Time F stopped	Pharm & Supply notes