	MULTIPLE V	/RIII C	HARTS	CHART	OF		
e:	Hospital:				OBS	VRIII	NU
N.O: ADDRESOGRA	Ward:				Variable Rate Intrave	nous Insulin Infusion	ls
:	Date: /	/ 20	)	Steroid cove	,		j 1
CBG > 7 or	On Insulin		<u> </u>		Steroid co	ver	_
What ever you want in h				ever you want in h			Re
All fluid	WHICH FLUID s must contain gluce			_		mp	20
STANDARD FLUID	To be pre	escribe		LTERNATIVE I		iewed regularly	10
1 <sup>st</sup> choice in most patients	K > 6 mmol/L	K < 4	mmol/L	hypoglycae	eatedly emic despite ced Protocol	Customised Fluid To be used by diabetes team	Sig
0.45% NaCl + 5% Dextrose + 0.15% KCL	0.45% NaCl + 5% Dextrose	5% D	% NaCl + extrose + 3% KCL	1	lucose + % KCL	Prescribe on: FLUID PRESCRIPTION	IN
or 'STANDARD'							
or <b>'STANDARD'</b> 50 ml/hr	50 ml/hr	50	ml/hr	50 ו	ml/hr	Specify rate: ml/hr	
50 ml/hr	50 ml/hr are continuous (eg: as		•		•	ml/hr	<b>-</b>

Name:

D.O.B:

**HOSP N.O:** 

#### FLUID PRESCRIPTION AND RECORD

Daily electrolytes and change fluid as appropriate

23, 0.000		-					
PRESCRIPTION			RE	CORD			
FLUID PRESCRIPTION	Date	Time	Sign	Date	Time	Nurse Prep.	Nurse Chk.
Prescribed fluids are co	ontinuous a	t 100 ml/h	r (unless sp	ecified as i	n Customis	ed Fluid)	
	_	_		-			

# TREATING HYPOGLYCAEMIA (ON VRIII) = CBG < 4 mmol/l

URSE LED TREATMENT

Call for HELP + Stop IV Insulin + Check A-B-C

Is patient asymptomatic or suitable for oral glucose - 4 glucose tablets or 2 glucose gels

patient symptomatic or NBM:

### IV access secured

- 1. Give 20% Glucose 100 mls IV Stat
- 2. Check CBG every 15 mins
- 3. If CBG < 4 mmol/L, repeat 20% Glucose IV up to 3 times (4 Boluses in total)

#### OR... If NO time to secure IV ACCESS

- 1. 1 mg Glucagon IM once + Secure IV access
- 2. Give 20% Glucose 100 mls IV Stat + Check CBG every 15 mins
- 3. If CBG < 4 mmol/L, repeat 20% Glucose IV up to 3 times (4 Boluses in total)

estart VRIII once CBG>4, run VRIII at 0.2 ml/hr for 1 hour, after 1 hour follow a reduced VRIII protocol (i.e. IN to ST)

#### ONTINUED TREATMENT

- 1. If persistent Hypoglycaemia after 3 boluses of 20% Glucose:
  - URGENT Medical or Diabetes Team review
- 2. If Hypoglycaemia occurs with Reduced VRIII protocol use 10% Glucose + 0.15% KCL (page 1)

20% GLUCOSE BOLUS  100 ml IV BOLUS		BOLUS	Date	Time	Sign	Date	Time	Sign	1	G	iLUCA	GON	Date	Time	Sign
100 ml	IV	BOLUS								1 mg	IM	Once in 24 hrs			
As per treating HYPOGLYCAEMIA		_									per tro	eating CAEMIA	Oı	nce in	24 hrs
Sign		Date								Sign		Date			

# TREATING HYPERGLYCAEMIA (ON VRIII) = CBG > 12 mmol/L

#### IITIAL TREATMENT

**Check Urinary or Blood ketones** 

- 1. If Urinary ketones ≥ +++ or Blood ketones ≥ 3mmol/L
  - a. Follow DKA management guidelines
  - b. Urgent Medical or Diabetes Team review, if applicable Contact Anaesthetist on list
- 2. If Urinary ketones ≤ ++ or Blood ketones < 3mmol/L
  - a. If patient unwell Medical Team review
  - b. Hourly Blood ketones and continue hourly CBG

#### **CONTINUED TREATMENT**

- 1. If patient has CBG > 12 mmol/L despite VRIII for three hours
  - Consider changing to an increased VRIII protocol
- 2. If persistent Hyperglycaemia
  - Medical Team or Diabetes Team review

## RESTARTING USUAL DIABETES MEDICATION

- Patient must be able to eat and drink normally
- Usual diabetes medication and a meal must be taken one hour before VRIII is stopped
- If LONG ACTING INSULIN was omitted, then continue VRIII till next LONG ACTING INSULIN dose given or contact Diabetes Team
- Once VRIII stopped please refer to standard CBG monitoring
- If patient is new to insulin as part of an emergency procedure consult Diabetes or Medical Team before stopping VRIII
- If patient's CBG is outside the range of 4-14 mmol/L then consult Diabetes or Medical Team prior to discharge

USUAL DIABETES MEDICATION AND A MEAL MUST BE GIVEN ONE HOUR BEFORE VRIII IS STOPPED

# VARIABLE RATE INTRAVENOUS INSULIN INFUSION PROTOCOLS (mls/hr)

**Select**: Protocol according to instructions (page 1)

USE CODE (in red) to prescribe VRIII opposite on VRIII PRESCRIPTION AND INSULIN RECORD

## **VRIII PRESCRIPTION AND INSULIN RECORD**

If in doubt continue VRIII till prescriber review

USE	CODE (In re	a) to prescribe	vkili opposite	on vkili PRESCR	IPTION AND INSU	LIN KECORD									
			abour target CBG oid use target CB		1	2		RESCRIP	TION					RE	CORD
CBG	mmol/L	A Standard	B Increase >80 units/da	d C	Specialist Advice	Customised Customised Cialist Advice Specialist Advice		CODE: A,	B, C, 1	, 2	49.	5ml of 0.	9% Saline	with 50	units Actrapid® in a 50 ml syringe
	< 4.0		FOLLOW TREATI	NG HYPOGLYCAEMIA	A GUIDELINES (page 4	)	VRIII CODE	Date	Time	Sign	Date	Time	Prep.	Chk.	VRIII SET UP
4.	.0 – 5.5	0.2	0.5	1.0											Use a line with anti-reflux and anti-
5.	6 – 7.0	0.5	1.0	2.0											syphon valve
7.	1 – 8.5	1.0	1.5	3.0											<ul> <li>Prime line with 5ml before attaching to patient</li> </ul>
8.6	6 – 11.0	1.5	2.0	4.0											Starting syringe volume should be 45ml
11.	.1 – 14.0	2.0	2.5	5.0											when first attached to patient
14	.1 - 17.0	2.5	3.0	6.0											Each new syringe must:     Start at 45mls
17.	.1 – 20.0	3.0	4.0	7.0											Be signed for on record opposite
	>20.1	4.0	6.0	8.0											<ul> <li>Start before previous finished</li> </ul>
			FOLLOW TREATIN	NG HYPERGLYCAEMI	A GUIDELINES (page 4	1)									<u> </u>
		PATIE	NTS WITH D	IABETES ON INS	SULIN MUST AL	WAYS HAVE	A SOURCE	OF INSU	LIN AN	D GLU	COSE or	r DEXT	ROSE o	r FOOD	) 
Data	/ /20	Time bl													HA
Date	/ /20	Time hh:mm							IF VRIII > 1	2 HOURS I	ENSURE A PI	LAN IS IN P	LACE FOR V	VHEN AND	HOW VRIII IS TO BE STOPPED
								_			-	-			Till the state of

Date	/ /20	Time hh:mm																								
Jute	, ,20														IF VRIII	> 12 HOU	JRS ENSU	RE A PLA	N IS IN P	LACE FOI	R WHEN A	ND HOW	/ VRIII IS	TO BE ST	OPPED	
		>24.1																								
vel		17 - 20.9										0. 6														
e S		15 - 16.9			F CAP	LLAR	Y BLO	OD G	LUCO	<u>SE &gt; 1</u>	0 MN	IOL/L	FOR T	HREE	HOU	RS FO	LLOW	HYPE	RGLY	CAEN	IIA GL	JIDELI	NES			
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cose		11 - 11 9																								
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	<u></u>	9 - 10																								
Blood	mmol/L K CBG L HOURL	8 - 8.9																								
<u>ŏ</u>		7 - 7.9									İ															
<b>8</b>	_	6 - 6.9							V		V		CL		IA/				/E							
<u>&gt;</u>	CHECI	5 - 5.9											7	)	VV		)									
<u>a</u>	I	4.1 - 4.9																								
Capillary	O	3 – 4.0																								
्रह्		2 – 2.9				IF CA	PILLA	RY BL	OOD	GLUC	OSE <	4.0 N	MOL/	L FOL	LOW	THE F	IYPOG	LYCA	EMIA	GUID	ELINE	S				
O		1 - 1.9 $0 - 0.9$																								
(etones		Blood mmol/L)																			-					1
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	Signature	••••												١	/RIII >	12 H	OURS:	CHE	CK U+	E. CH	ANGE	FLUID	) AS A	PPRO	PRIA	TE