Insulin Infusion for Neonates

			*** Do l	NOT use a fi	ilter***Use Low Sorbing e	xtension set	ts***					
Before co checked	ommencing	insulin infusion ens	sure that ALL the following	ng have been	Glucose Conversi	on	Name:					
1	Blood glucose >12mmol/L with glycosuria +++ or more			<u>mls/kg/day x % glucose</u> = m	ıg/kg/min	DOB:						
2	2 Blood glucose readings >12mmol/L Or Blood glucose ≥ 15 regardless of urine glucose			144		(Affix Patient Label Here)						
Or						Hosp No:						
3 Glucose intake <10mg/kg/min						Consultant:						
If the volu	ume of the i and volum	nsulin infusion repr e decreased accor	esents a substantial proj dingly.	portional of daily	/ fluid intake the concentration of in	sulin should be	Working weight:	kg				
Single Strength Insulin Infusion 0.1 unit in 1 mL					Add 5 units of insulin to 50ml glucose							
Double Strength Insulin Infusion 0.2 units in 1 mL					Add 10 units of insulin to 50ml glucose							
Quadruple Strength Insulin Infusion 0.4 units in 1 mL					Add 20 units of insulin to 50ml glucose							
• Whe	n drawing	up use a dedicate	d insulin syringe show	ing units not m	nls, Do Not use a filter, use a low	sorbing set or	prime set (see below)					
• Com	mence infu	ision at 0.04 units	/kg/hour									
Chec	ck blood gl	ucose within one	hour of starting									
 Increase by 0.02 units/kg/hr until blood glucose decreasing by at least 1mmol/l between blood samples 												
 If blo IV sit 	ood glucos te, ensure	e not falling as ex no filter, ensure c	pected, and/or an insul ompatible with other in	lin infusion rate fusions	e of 0.2units/kg/hour is required,	ensure approp	oriate insulin delivery e.g.	Check pump, check lines and				
• Targ	et blood gl	ucose whilst on i	nsulin is 7 to 12 mmol/l									
Date t	e and ime	Strength of infusion	Amount of insulin required	Prescriber's Signature & Bleep No.	Batch number and expiry date of glucose 5%	Batch number ar expiry dat of insulin	e Expiry date and time of infusion	Prepared by Checked by				
			units									
			units									
			units									
			units									
To prevent hypoglycaemia - If blood glucose is:							giving set					
7 to 12 n	nmol/I and	stable	- maintain infusion rate	Prime the administration line with diluted insulin solution (as per								
7 to 12 m	mol/l and	decreasing	- reduce infusion rate	by 0.02 units/kg	/hr prescripti		and leave for 10 minutes t	then flush the line through with				
4 to 6.9 mmol/l			- reduce infusion rate infusion rate	by 50% from pr	esent rate, or stop if on lowest procedure		en lines are changed.	ing to the patient. Nepeat				
<4 mmo	/ 		- stop infusion					Version 1.2 – May 2024				
Recheck	blood gluc	ose within 1 to 2 h	nours of reducing the do			,						

** Use Low Sorbing extension sets** **Do NOT use a filter**

To prevent hypoglycemia if blood glucose is:

7 to 12 mmol/I and stable

- 7 to 12 mmol/I and decreasing
- reduce infusion rate by 0.02 units/kg/hr

4 to 6.9 mmol/l

<4 mmol/l

- reduce infusion rate by 50% from present rate, or stop if on lowest infusion rate

- maintain infusion rate

- stop infusion

Recheck blood glucose within 1 to 2 hours of reducing the dose, then check every 2 to 4 hours until stable

Blood Glucose Monitoring										
Date	Time	Blood Glucose (mmol/L)	Current Insulin Dose (units/kg/hr)	Updated Insulin dose (units/kg/hr)	Insulin rate prescription (signature and bleep)	Checked by				