DOB: *CHECK ALLERGIES* Name: Hospital Number: VARIABLE RATE INTRAVENOUS INSULIN INFUSION (VRIII) DO NOT USE IN PREGNANCY Glucose insulin infusions- Adjustable dosage Insulin Rates (mL/hr) Start on standard rate unless otherwise indicated ketoacidosis and HHS) Reduced Blood Standard Increased rate Rate Glucose Customised Customised Rate (For insulin resistant nsulin sensitive patients e.g. ≥100units/ mmol/L Scale Scale (1st choice in e.g ≤24units/ day) most patients) day) <4.0 0* 0* 0* 2 4.1-8.0 0.5 1 8.1-12.0 2 4 1 12.1-16.0 2 4 6 16.1-20.0 3 5 7 20.1-24.0 4 6 8 6 8 10 >24.1 Prescriber signature Date Note: If a patient is on basal subcutaneous insulin-continue this alongside the VRIII * Treat hypoglycaemia and once CBG>4.0mmol/L, restart VRIII within 20 minutes

Insulin preparation: 50 units of soluble insulin (Actrapid) is diluted with 49.5mL 0.9% saline in a 50mL syringe to give 1unit/mL. Use an insulin syringe and mix thoroughly. To be prescribed on the infusion section of main drug chart.

| Date | Blood Glucose | Insulin | Blood | Name and | Essential Monitoring during the use of VRIII |
|-------|---------------|---------|---------|-----------|--|
| | (mmol/L) | unit/hr | ketones | signature | Target range for capillary blood glucose is 6-10mmol/L |
| 08.00 | | | | | Hourly monitoring of capillary blood glucose |
| 09.00 | | | | | Hourly review of insulin infusion rate to achieve target range of |
| 10.00 | | | | | glucose |
| 11.00 | | | | | At least daily review of the need for VRIII |
| 12.00 | | | | | At least daily review of the patient including fluid status |
| 13.00 | | | | | Daily urea and electrolytes |
| 14.00 | | | | | For CBGs persistently above 12.0mmol/L and NOT falling, check ketones 4 hourly if have Type 1 diabetes, at least once if Type 2 |
| 15.00 | | | | | • Review the patient within 6 hours of starting VRIII to make sure the CBGs are in target |
| 16.00 | | | | | |
| 17.00 | | | | | Potassium supplementation: |
| 18.00 | | | | | Aim to keep K⁺ 4.0-5.0mmol/L If serum K⁺ >5.5 no additional K⁺ but reassess serum k⁺ regularly |
| 19.00 | | | | | If serum K⁺ is 3.5-5.5mmol/L, use 5% glucose with 40mmol/L KCL at |
| 20.00 | | | | | 125ml/hr |
| 21.00 | | | | | • If serum K ⁺ <3.5 senior review as extra potassium needs to be given |
| 22.00 | | | | | • Caution in those with eGFR <20ml/min- may need less K ⁺ |
| 23.00 | | | | | |
| 24.00 | | | | | Converting back to subcutaneous (SC) insulin |
| | | | | | Patients should be able to tolerate a light meal before discontinuing VRIII |
| 01.00 | | | | | It is not recommended that VRIII is stopped overnight. Seek advice |
| 02.00 | | | | | from the medical team on-call |
| 03.00 | | | | | Give first dose of quick or intermediate acting SC insulin with a meal 30minutes before stopping VRIII |
| 04.00 | | | | | |
| 05.00 | | | | | Continuous subcutaneous insulin infusion (CSII) |
| 06.00 | | | | | Contact Diabetes team immediately for all insulin pump patients |
| 07.00 | | | | | Please refer to Joint British diabetes society-IP guidelines October 2015[*] |

Indications for use of VRIII • Vomiting (excluding diabetic

Nil by mouth and will miss more than one meal Severe illness with need to achieve good glycaemic

control e.g. sepsis

Intravenous fluid recommendations. Review fluid status daily

 When blood glucose <15mmol/L, infuse 1L of 5% glucose with 20mmol potassium chloride at 1ml/kg/hr (maximum 100ml/hour)

•When blood glucose ≥15mmol/L, infuse 1L of 0.9% sodium chloride with 20mmol potassium chloride at 1ml/kg/hr (maximum 100ml/hr)

Blood Glucose Testing:

Hourly

IN-PATIENT ADULT DIABETES CARE CHART

| Fix Addressograph here or Enter Patient Details | Consultant | | | | | |
|---|------------|--|--|--|--|--|
| NHS No: | | | | | | |
| Hosp. No: | | | | | | |
| Surname: | | | | | | |
| First Names: | Ward | | | | | |
| Date of Birth: | Ward | | | | | |
| | | | | | | |
| DIABETIC MEDICATION ALLERGY: Yes/No. | | | | | | |

Self administration trust policy complete: Patient is self administering insulin

USUAL DIABETES MEDICATIONS ON ADMISSION (Please complete on admission)

| Date Com | pleted | Name of insulin/drug (incl device) | | | | | |
|------------------|--|---------------------------------------|--|--|--|--|--|
| INSULIN | Short-acting | | | | | | |
| | Mixed preparations | | | | | | |
| | Long-acting | | | | | | |
| ME (These MUS | ER DIABETIC DICATIONS T be prescribed on the th prescription chart) | | | | | | |

Contact Diabetes Team for patients admitted on a subcutaneous insulin pump (CSII) Tick if applicable:

Patient on a personal subcutaneous insulin infusion pun Patients with insulin pumps will adjust the basal rate, if n

EMERGENCY TREATMENT OF HYPOGLYCAEMIA (Ca IF USING PLEASE INFORM DOCTOR (Refer to Trust p

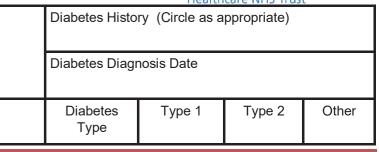
| Oral Glucose Tablets/Glucose Juice- if able to swallow | Give 4-5 tablets or one bottle of juice orally |
|---|--|
| ORAL Glucose Gel- if able to swallow | Give 1.5-2 tubes orally |
| IM Glucagon- if unable to swallow (stored in fridge) | |
| Prescribers sig. | 1mg IM |

| Once Only Drugs | | | | | | | |
|---|---|-------------------|--|--|--|--|--|
| Note: If NBM give glucose 10% infusion at 100mL/hr until no | | | | | | | |
| over 15min | duministering | Given by sig. | | | | | |
| 20% 75mL IV or 10% 150mL IV | Contact Doctor before administering | Prescribe sig. | | | | | |
| TV Glucose 20% of Glucose 10% | | Time | | | | | |
| IV Glucose 20% or Glucose 10% | | Date | | | | | |

| Date | Time | Insulin Name | Dose (units) | | | | | | | | |
|------|------|--------------|--------------|--|--|--|--|--|--|--|--|
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| | | | - | | | | | | | | |

Surrey and Sussex NHS





If Yes, list the diabetic medication(s) and reactions

Patient is self dosing insulin

| uding | Dose (units) | | | | | | | | | | | | |
|-------|--------------|-------|--------|---------|--|--|--|--|--|--|--|--|--|
| - | Breakfast | Lunch | Dinner | Bedtime | | | | | | | | | |
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| | | | | | | | | | | | | | |

| np– Type of insulin in pump : | |
|--------------------------------|--|
| necessary with the help of the | |

| apillary Blood Glucose <4mmol/L) protocol for management of Hypoglycaemia guidelines) | | | | | | | | | |
|--|------------|------|---------------|--|--|--|--|--|--|
| Start Date | | Date | | | | | | | |
| | Start Date | | Time | | | | | | |
| | Bleep | | Given by sig. | | | | | | |
| | Start Date | | Date | | | | | | |
| | Start Date | | Time | | | | | | |
| | Bleep | | Given by sig. | | | | | | |
| | Start Date | | Date | | | | | | |
| | Start Date | | Time | | | | | | |
| | Bleep | | Given by sig. | | | | | | |

| | Date | Date | | | | | | | |
|---|------------------|---------------------|--|--|--|--|--|--|--|
| | Time | Time | | | | | | | |
| ers | Prescribers sig. | Prescribers sig. | | | | | | | |
| у | Given by sig. | Given by sig. | | | | | | | |
| longer NBM or reviewed by a doctor. Prescribe on infusion chart | | | | | | | | | |

| 5) | Route | Prescribers sig. & Reg no. | Time given | Given by sig. | Pharm |
|----|-------|-------------------------------|---------------|---------------|-------|
| | | | | | |
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| Nar | ne: Ho | spital Nur | nber: | | | D | OB: | | | | | *CH | ECK | | ER | GIES* | N | lam | ne:_ | |
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| ∃ | INSULIN NAME & DEVIC | | CHANGE | CHANGE | | | | Nu | rse | Adn | ninist | ratior | n Cha | rt | | | | \square | | T |
| Time | Vial/Pen/Cartridge | | | IGE 3 | Date | | | | | | | | | | | | | | | Bedt |
| | DRUG (Approved name) | Dose | | | Time | | | | | | | | | | | | | | | Pre-c |
| | | uni | its units | units | Omission | | | | | | | | | | | | | | | |
| | PRINT NAME & SIGNATURE DATE | units sig | | sign | Code Dose | + | + | | | | | | $\left \right $ | + | | | nmol/ | ime | | Pre-l |
| BRE | Special Instructions Pharmacy | Usual Med Y/N | | | (Units) | | | | | | | | | | | | glucose target for this patient ismmol/L | Bedtime | | Pre-t |
| BREAKF | DRUG (Approved name) | Dose | ate Date | Date | Initials | - | | | | | | _ | | - | | | | | | |
| AST | | | | | Time | | _ | | | | | _ | | _ | | | | | | Bedti |
| | PRINT NAME & SIGNATURE DATE | uni | its units | units | Omission Code | | | | | | | | | | | | | | | Pre-o |
| | Special Instructions Pharmacy | units sig | gn sign | sign | Dose (Units) | | | | | | | | | | | | | Н | | |
| | Special Instructions Pharmacy | Usual Med Y/N | | | | | | | | | | | | | | | | ner | | Pre-l |
| | DRUG (Approved name) | Dose Da | ate Date | Date | Initials | | | | | | | | | | | | | Pre-dinner | | Pre-b |
| | | | | | Time | | - | | | | | _ | | _ | | | | | | |
| LUNCH | PRINT NAME & SIGNATURE DATE | | its units | units | Omission Code | | _ | | | | | | | | | | t is | \vdash | | Bedti |
| СН | Special Instructions Pharmacy | units sig | gn sign | sign | Dose (Units) | | | | | | | | | | | | atien | | | Pre-c |
| | | Usual Med Y/N | | | | | | | | | | | | | | | this p | | | |
| | DRUG (Approved name) | Dose | ate Date | Date | Initials | | - | | | | | | | - | | | et for | сh | | Pre-l |
| | | | | | Time | | _ | | | | | _ | | _ | | | e targ | Pre-lunch | | Pre-b |
| | PRINT NAME & SIGNATURE DATE | | its units | units | Omission Code | | | | | | | | | | | | lucos | ā | | |
| щ | On a sticl by the struction of D | units sig | gn sign | sign | Dose (Units) | | | | | | | | | | | | | | | Bedti |
| EVENING | Special Instructions Pharmacy | Usual Med Y/N | Dete | Dete | | | | | | | | | | | | | eal blo | | | Pre-d |
| NG | DRUG (Approved name) | Dose | ate Date | Date | Initials | | | | | | | | | | | | Pre-meal blood | Н | | |
| MEAL | | | | | Time | | _ | | | | | _ | | _ | | | | | | Pre-l |
| | PRINT NAME & SIGNATURE DATE | uni | its units | units | Omission Code | | | | | | | | | | | | | ast | | Pre-b |
| | | units sig | gn sign | sign | Dose (Units) | | | | | | | | | | | | | Pre-breakfast | | |
| | Special Instructions Pharmacy | Usual Med | | | | | + | | | | | | | + | | | | Pre-b | | Bedti |
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| | | Y/N | ate Date | Date | Initials | | | | | | | | | | | | CBG | o od g | | |
| Pharmacy screened | | | | | | | _ | Target CBG (mmol/L) | / of bl | Date | | | | | | | | | | |
| | | NOT ADD | | | Initials | | | | | | | | | | | | ſ | Frequency of blood glucose monitoring | | |
| | 1. NIL BY MOUTH SION 2. REFUSED | 6. D | PATIENT'S DRUG INC | COND | ITION TOO | POOR | | NIHE | | 9. ON | RATION I INSUL THER | | NG SC/ | ALE | | | | Free | | |
| 3. DRUG NOT AVAILABLE 7. SELF ADMINISTRATION 4. PATIENT UNAVAILABLE 8. OMITTED ON DR'S INSTRUCTION | | | | | | | | | | | | | | | | | | | | |

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| | | Pre-dinner | | | _ | | | | | | | | _ | | | | | |
| Frequency of blood glucose monitoring | | Pre-lunch | | | ┝ | \vdash | | | | | | | \vdash | | | | | |
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| | | Pre-breakfast | | | | | | | | | | | | | | | | |
| | Date | Time | Nurse's initials | Blood glucose value (mmol/L) | | | | | | | | | | | | | 00 | |
| | | | | | Capillary blo | | | | | | | | | | | | | |

