

# Prescribing and administration of insulin on EPMA - Full Paediatric Clinical Guideline – Derby Site Guideline

Reference no.: CH CLIN D16/ Sept 22/v004

Prescribing and administration of insulin on EPMA (Lorenzo). Full paediatric guideline Reference no.CH CLIN D16

Aim: to ensure safe prescribing of insulin for paediatric in-patients with Diabetes Mellitus

Purpose: To safely prescribe insulin for children and young people with diabetes when admitted as an inpatient, using Electronic Prescribing and Medicines Administration system (EPMA) Lorenzo

#### 1. Main guideline

#### Background

**Newly diagnosed patients** with Type 1 diabetes who are **not** in diabetic ketoacidosis (or once DKA resolved) require the following prescriptions:

- 1. Novorapid pre meal meal set dose
- 2. Long-acting insulin (Degludec or Detemir)

Newly diagnosed patients with Type 1 diabetes – once admitted to Puffin or Dolphin ward require the following prescription as advised by the paediatric diabetes team:

- 1. Novorapid pre meal –dose calculated by carbohydrate counting Instead of meal set dose
- 2. Novorapid pre meal correction dose to correct high blood glucose
- 3. Long-acting insulin (Degludec or Detemir)

**Established patients** with diabetes mellitus on a multiple daily injection regime require the following prescriptions

Either....

For those that calculate meal dose by carbohydrate counting

- 1. Novorapid or fiasp pre meal –carbohydrate counting
- 2. Novorapid or fiasp pre meal correction dose to correct high blood glucoses
- 3. Long-acting insulin (Degludec or Detemir or Glargine)

Or....

For those on fixed dose at each meal

- 1. Novorapid or Fiasp pre meal meal set dose
- 2. Novorapid or Fiasp pre meal correction dose to correct high blood glucoses
- 3. Long-acting insulin (Degludec or Detemir or Glargine)

#### Order sets

There are 3 'order sets' on EMPA (Lorenzo) to help with prescribing insulin for paediatric patients with diabetes

- Insulin for type 1 diabetes newly diagnosed under 1 year old
- Insulin for type 1 diabetes newly diagnosed 1 year and over
- Insulin for type 1 diabetes for established patients.... Which has all possible insulins used in paediatric diabetes patients.

#### Section 1:

How to prescribe insulin on EMPA (Lorenzo) for newly diagnosed patients with type 1 diabetes on day 1 of admission or when changing from DKA guideline

When prescribing for the first time, you can select both the Novorapid (meal set dose) and the long-acting insulin (Degludec or Detemir) from the same order set at the same time. Alternatively, you can select each insulin individually.

**Please see Appendix 1**: Screenshots to aid prescribing Novorapid Set Dose and Long-Acting Insulin on Lorenzo for newly diagnosed patient with type 1 diabetes

#### 1. Novorapid: meal set dose:

Novorapid should be given by pen injection device 15 minutes before meals. These meal doses should be prescribed at 08:00, 12:00 and 17:00.

#### and

#### Long-acting insulins: Degludec or Detemir

Degludec and Detemir should be given when an inpatient, at 6pm.

Round doses up to nearest half unit for children <u>under 5 years of age</u> and to nearest whole unit for children <u>over 5 years of age</u>.

Step 1: Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Newly Diagnosed" and tick 'Search order sets'

- Step 2: Select either Insulin for type 1 diabetes newly diagnosed under 1 year old **OR** Insulin for type 1 diabetes newly diagnosed 1 year and over
- Step 3: Tick Insulin aspart Novorapid Penfill 100 units/ml Meal Set Dose
- Step 4: Tick Insulin Degludec-Tresiba Cartridge 100 units/ml Basal Insulin OR Insulin Detemir – Levemir Penfill 100 units/ml – Basal Insulin Press OK

Step 5: NOVORAPID screen will be displayed. Check the frequency is Three times Per Day – 8am, 12pm, 5pm Step 6: Tick 'changing dose box' and then select 'Changing dose' in BLUE

Step 7: Enter the set mealtime doses in each time block on the 'changing dose mezzanine' table – Press OK

Step 8: NB – if you are asked if you wish to update the entered details in the grid – press yes

Step 9: Press UPDATE on main prescription page

Step 10: Press OK and acknowledge reason for prescription

Step 11: LONG-ACTING INSULIN PRESCRIPTION WILL APPEAR

Step 12: Enter long acting insulin dose

Step 13: Check administration time is 6pm

Step 14: Press OK and acknowledge reason for prescription

Step 15: Double check both prescriptions and press FINISH NOW

**Amending doses:** Open the prescription to amend. Follow Step 6 to Step 10. You may be asked to confirm 'reason for modification'. Complete prescription change, check prescription has been amended and press FINISH.

Alternatively Discontinue/cancel current prescription and re-prescribe with new set doses.

#### If prescribing long acting insulin separately:

Step 1: Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Newly Diagnosed," and <u>tick</u> <u>'Search order sets'</u>

- Step 2: Select either Insulin for type 1 diabetes newly diagnosed under 1 years old Insulin for type 1 diabetes newly diagnosed 1 years and over
- Step 3: TickInsulin Degludec Tresiba Cartridge 100 units/ml Basal InsulinORInsulin detemir Levemir Penfill 100 units/ml Basal Insulin
- Step 4: Enter long acting insulin dose
- Step 5: Check administration time is 6pm
- Step 6: Press OK and acknowledge reason for prescription

Step 7: Double check prescription and press FINISH NOW

# 2. To prescribe Novorapid pre meal dose correction dose (also known as Insulin Sensitivity Factor)

#### Please see Appendix 2: Screenshots to aid prescribing Novorapid – Correction doses

Correction dose of Novorapid (or insulin sensitivity factor) = additional Novorapid given at meal times to correct blood glucose down to a normal blood glucose of 6 mmol/l.

Any blood glucose at mealtimes, above 6mmol/l can be corrected if there is a big enough difference to give a minimum of 0.5 units with the correction ratio.

Inpatients require a prescription for the 'correction dose' to be given before each meal expressed as

'1 unit of Novorapid is expected to reduce the blood glucose down by *y mmol/l*, aiming for blood glucose of 6 mmol/l'

The nurse administering the Novorapid will calculate the correction dose from this formula at each meal.

Step 1: Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Newly Diagnosed, Established" and <u>tick 'Search order sets'</u>

Step 2: Select one of the following:

Insulin for type 1 diabetes newly diagnosed under 1 year old **OR** Insulin for type 1 diabetes newly diagnosed 1 years and over **OR** Insulin for type 1 diabetes for established patients

Step 3: Tick Insulin aspart - Novorapid Penfill 100 units/ml – Correction Dose Step 4: Press OK

Step 5: Tick the box beside 'Changing dose'

Step 6: Tick 'changing dose' in BLUE

Step7: 'Changing dose mezzanine' screen will appear. Press OK

Step 8: Prescribe correction dose by amending the 'variable dose instructions'

Correction: 15 minutes before breakfast, lunch and tea. Please calculate the dose using the formula: 1 unit of Novorapid is expected to reduce the blood glucose by Y mmols/l, aiming for blood glucose of 6 mmols/l. <u>Amend Y and delete text in brackets</u>

Step 9: Enter dose range (you need to specify a suitable range)

Minimum- 0.5 units. Maximum – need to calculate likely maximum for individual patient

Corrections are worked out using the sum 100 ÷ by Total Daily Dose (long and fast acting insulin).

**Example1**: If Total Daily Dose = 20 units then correction dose will be  $100 \div 20 = 5$ . Therefore 1 unit of Novorapid will reduce blood glucose by 5mmol/l.

If blood glucose is 26 mmol/l and aiming for a blood glucose of 6 mmol/l, the correction dose needs to reduce blood glucose by 20 mmol/l

If 1 unit of Novorapid will reduce blood glucose by 5 mmol/l then  $20 \div 5 = 4$ . 4 units will reduce blood glucose by 20 mmol/l therefore a range of 0.5 units to 5 units would be appropriate.

**Example 2:** If Total Daily Dose = 8 units then correction dose will be  $100 \div 8 = 12$  (12.5). Therefore 1 unit of Novorapid will reduce blood glucose by 12mmol/l.

If blood glucose is 26 mmol/l and aiming for a blood glucose of 6 mmol/l, the correction dose needs to reduce blood glucose by 20 mmol/l

If 1 unit of Novorapid will reduce blood glucose by 12 mmol/l then  $20 \div 12 = 1.6$  – round to nearest half = 1.5. 1.5 units will reduce blood glucose by 20 mmol/l therefore a range of 0.5 units to 2 units would be appropriate.

Step 10: Press <u>UPDATE</u> – a screen might be displayed that advises to avoid entering a dose less than '1',do you wish to continue? – press yes

Step 11: 'Changing dose mezzanine' screen will appear again. Press OK

Step 12: Check – dose range is visible, frequency is TDS (8am, 12pm, 5pm) and correction ratio is visible in the 'variable dose instructions'

Step 13: Press OK and acknowledge reason – it may advise mandatory fields are missing. Press yes/OK

Step 14: Double check prescription and press FINISH NOW

Amending doses: Open the prescription to amend. Tick the small box beside the current dose range. Amend the 'variable dose instruction' to new correction ratio.

Follow Step 10 – Step 13.

You may be asked to confirm 'reason for modification'. Complete prescription change, check prescription has been amended and press FINISH.

Alternatively Discontinue/cancel current prescription and re-prescribe with new correction dose.

#### Section 2:

# Prescribing for established patients or newly diagnosed when commenced on carbohydrate counting

Please see Appendix 3: Screenshots to aid prescribing Novorapid for meals: dose to be calculated using carbohydrate counting

# 1. To prescribe Novorapid pre meal dose calculated by carbohydrate counting technique

Novorapid should be given by pen injection device 15 minutes before meals. These meal doses should be prescribed at 08:00, 12:00 and 17:00.

Step 1: Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Established" and tick 'Search order sets'

Step 2: Select Insulin for type 1 diabetes for established patients

Step 3: Tick Insulin aspart - Novorapid Penfill 100 units/ml - Carbohydrate Counting

Step 4: Press OK

Step 5: Tick the small box in the prescribing box – see screenshot

Step 6: Prescribe carbohydrate counting ratio's by amending the 'variable dose instructions'

'Calculate <u>by</u> carbohydrate counting: 15 minutes before breakfast 1unit of Novorapid per X grams of carbohydrate. 15 minutes before lunch 1unit of Novorapid per Y grams of carbohydrate. 15 minutes before tea 1unit of Novorapid per Z grams of carbohydrate. (**Amend X, Y, Z**). You might need to delete a word in the text box to enter the ratio's. We suggest delete 'by' – see above in itallics.

Step 7: Enter a range of possible insulin doses in 'Dose'.

Minimum - 0.5 units.

Maximum - need to calculate likely maximum for individual patient.

E.g. If 1 unit of Novorapid for 10 g carbohydrates and eat 100g of carbohydrates then dose is 10 units

Step 8: Select 'unit' in UOM

Step 9: Press UPDATE

Step 10: If the dose range starts at 0.5 units – the system will ask if this is ok for safety – press yes

Step 11: 'Changing dose mezzanine' screen will appear again. Press OK

Step 12: Check – dose range is visible, frequency is TDS (8am, 12pm, 5pm) and carbohydrate ratios are complete in 'variable dose instructions' in the prescription box.

Step 13: Press OK and acknowledge reason for prescription

Step 14: Double check prescription and press FINISH NOW

**Amending doses:** Open the prescription to amend. Follow Step 5 (this is the small box beside the current dose range) to Step 13. You may be asked to confirm 'reason for modification'. Complete prescription change, check prescription has been amended and press FINISH.

Alternatively Discontinue/cancel current prescription and re-prescribe with new carbohydrate ratio's.

#### 2. To prescribe Novorapid 'sick day rule' dose for blood ketones above 0.5 mmol/l

Please see CH CLIN D02 or CH CLIN D14 (insulin pump patients) for calculation **This must be prescribed as a STAT dose of Novorapid on Lorenzo**:

Step 1 : Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Established" and <u>tick</u> <u>'Search order sets'</u>

Step 2: Select Insulin for type 1 diabetes for established patients

Step 3: Tick Insulin aspart - Novorapid Penfill 100 units/ml - STAT Dose

Step 4: Prescribe dose - ensure frequency is 'STAT'

Step 5: Press OK and acknowledge reason for prescription

Step 6: Double check prescription and press FINISH NOW

# 3. To prescribe long-acting insulins: Degludec, Detemir and Glargine (established patients) if not been previously prescribed as part of Order Set

Degludec, Detemir and Glargine should be prescribed for all established patients. The system defaults administration time to 6pm. Patients may have it a later time in the evening when at home.

Round doses up to nearest half unit for children under 5 years of age and nearest whole unit for children over 5 years of age.

#### To prescribe on Lorenzo:

Step 1: Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Established" and tick 'Search order sets'

Step 2: Select Insulin for type 1 diabetes for established patients

Step 3: Tick ONE of the following Insulin Degludec - Tresiba penfill 100 units/ml **OR** Insulin Detemir - Levemir penfill 100 units/ml **OR** Insulin Glargine - Lantus cartridge 100 units/ml

Step 4: Prescribe dose

Step 5: Press OK and acknowledge reason for prescription

Step 6: Double check prescription and press FINISH NOW

### 3. To prescribe discharge medication for newly diagnosed patient with type 1 diabetes

Step 1: Search for one of 'Insulin, Diabetes, Paediatric Diabetes, Newly Diagnosed,' and tick 'Search order sets'

Step 2: Select either Newly diagnosed diabetes under 1 year old OR newly diagnosed 1 year and over

Step 3: Select 'Diabetic starter kit'.

Step 4: Press OK

Step 5: Double check prescription and press FINISH NOW

### 1. References (including any links to NICE Guidance etc.)

### 2. Documentation Controls

Development of Guideline:	Dr J Smith
	W Barber- Lead Children's Diabetes Dietitian (SP)
Guideline Updated 2022:	Dr K Kumar
Consultation with:	Paediatric diabetes team
	Paediatric pharmacist kevin Inglesant
	Anthony Johnson Project lead EPMA
	Mathew Elliot – Advanced Pharmacist
Approved By:	Paediatric Business Unit Guidelines Group, Women
	and Children's Division.
	date
Review Date:	May 2024 -Extended to September 2024
Key Contact:	Dr J Smith , Dr Kumar

# APPENDIX 1: Screenshots to aid prescribing Novorapid Set Dose and Long Acting Insulin

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Appendix 2: Screenshots to aid prescribing Novorapid:correction dose with meals



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Recorded medication Search LOREN	NZO-Webpage Dialog X	
Quick links cartr	ulin aspart - NOVORAPID PENFILL 100unit/ml solution for injection	
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	Start date time 22-Aug-2022 14:14 Stop date time	

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4) Amend the 'variable dose

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text in brackets).

Other links > Links > Observations/Results > Rgconcile

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ID is expected to reduce the blood Is/l (2 mmols). Aiming for a blood

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XXTESTPATIENT-TJSO ,Donotuse (Mr) 21-0	Oct-1966 55 yrs	81501539 999-05	7-2321		Allergies /ADRs No known allergies/ADRs	(last checked on 20-may-2022)
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Search order sets 🔘 Beg	Basic details Ted	hnically validate Conflicts Re	cord administration Dose range check		Changing dose	
Insulin for type 1 Diabetes for established patients Insulin for type 1 Diabetes newly diagnosed Jyear old and over Insulin for type 1 Diabetes newly diagnosed under 1 year old (Insulin) Hyperkalaemia Standard Regimen	Dose Frequency Duration Variable dose instructions Chanoina d Chanoina d Chanoina d Chanoina d Chanoina d	3 5 1 THEE times a DAY at 8am 12pr B changing dose 10 changing	Changing dose     X       Changing dose     Image: Changing dose       Time(s)     Dose       00:00     3 unit       12:00     3 unit       17:00     3 unit       17:00     3 unit       10:Changing dose @ Deywise > Clear     Q Qk	ed time(s) Oue drug round time uied Drug round Drug round Drug round Variable dose instructions Ont of NOVGRAPID is expected for it round for a block drugs of a monted.	mezzanine screen v appear again. This displays the minimu dose entered. Pres OK.	um s
Other links    Links    Observations/Results    Reconcile			Add to favourites) Medi	ication administration <b>) Re-prescribe</b>		
	_					ih now 🚯 Next 🕱 Cancel

XXTESTPATIENT-TJSO ,Donotuse (Mr) 21-0	oct-1966 55 yrs 81501539 9	99-057-2321		
				Allergies /ADRs No known allergies/ADRs (last checked on 20-may-2022)
>>> Create/Amend inpatient prescription >>> Print				
Create/Amend inpatient prescription				😲 Prescribing considerations 🔻 🖉
Recorded medication Search	LORENZOWebpage Dialog			x
Quick links Search insulin	insulin aspart - NOVORAPID PENFILL 100 cartridge [NOVO]	Dunit/ml solution for injection	DRC dose type: System	ations  Care Provider - Open defined  Include cancelled items Include ALL completed / discontinued items
V Search order sets 🔘 Begi	in: Basic details Technically validate Com	nflicts Record administration Dose range chee	* <b>O</b>	
Create multiple component term Insulin for type 1 Diabetes nerely diagnosed 1 year old and over Thousin for type 1 Diabetes nerely diagnosed under 1 year old  (Insulin for type 1 Diabetes nerely diagnosed under 1 year old (Insulin) Hyperkalaemia Standard Regimen 2) Check the frequency is TDS	Start date time 22-Aug-2022 14:34 Dose   Frequency Duration  K Changing dose Instructions	Stop date UOM unit v administrat v Administrat times	for a large time(s) Use free time(s)         Use free time(s) Use drug round time(s)         Scheduled Drug round         No records to show         db Add Q Update signal	3) Check the correction ratio has been saved in the 'variable dose instructions'
– 8am, 12pm, 5pm 1) Ensure dose	3 - S unit THR 3 - S unit THR Full prescription view Addition Full prescription view View with Constructions/Result	squency         Duration         Administrat           EE times a DAY at 1 Japm Song         Fixed - 08:00,           al options         -         -           diddled administration will be at 22-Aug-2022 17: presente an additional STAT dose?         -           ts         >) Remove item	tion times Variable dose instructions Lund of NOVORAPD is expected to refuce 12:00/17:00 block by 2 model (2 mmobil). Am a blood pluces by 2 mmobil (2 mmobil). Am a blood pluces of 6 mmobil.	the ma for
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XXTESTPA	TIENT-TJSO ,Donotuse (Mr) 21-Oo	ct-1966 55 yrs 81501539 999-057-2321			
				Allergies /Al	DRs No known allergies/ADRs (last checked on 20-may-2022)
>>> Create/An	nend inpatient prescription 🚿 Print				
Create/An	nend inpatient prescription				😲 Prescribing considerations 🔹 🔞
Recorded med	dication Search				
Quick links			Inpatient Encounter - Start date:	12-May-2022 - GENERAL MEDICINE - DUMM	IY Care Provider - Open
Search	insulin	LORENZOWebpage Dialog		*	Include ALL completed / discontinued items
	✓ Search order sets ● Begin	insulin aspart - NOVORAPID PENFILL 100unit/ml solution for injection cartridge [NOVO]		Prescribing considerations DRC dose type: System defined	Medications completed/discontinued since 29-Aug-2022 00:00 shown)
Create multip	le component item				
Insulin for typ	e 1 Diabetes for established patients 🕥	Basic details Technically validate Conflicts 😳 Record administration Do	ose range check 😳		
Insulin for typ	e 1 Diabetes newly diagnosed 1 year old and over 🕥	Type Details	Prescriber acknowledgement	Acknowledged	
Insulin for typ (Insulin) Hype	e 1 Diabetes newly diagnosed under 1 year old 🚱 rkalaemia Standard Regimen 🌑	The patient is already receiving an equivalent product in their existing medication. insulin aspart - NOVORAPID PENFILL 100unit/ml solution for injection cartridge [NOVO] Prescribed on: 22-Aug-2022 15:01:53	Select reason*	□*	
		There may be "conflicts the warnings and select acknowledgement reas	s" generated. et an appropria son.	Review ate	
				- Handatory Helds	
		Jinks Doservations/Results Remove item		😡 Qk 😡 Cancel	
Other links	Links Dbservations/Results Reconcile		Add to favourites Medication admin	nistration ) Re-prescribe	
					👿 Finish now 🔅 Next 😿 Cancel

XXTESTPATIENT-TJSO ,Donotuse (Mr) 21-Oct-1966 55 yrs 81501539 999-057-2321	Allergies / ADRs No known allergies / ADRs (last checked on 20-may-2022)
>>> Create/Amend inpatient prescription >>>> Print	
Create/Amend inpatient prescription	🕕 Prescribing considerations 📼 🖉
Recorded medication Search Quick links Search Search order sets Begins with Any wor Check prescription is correct	Impatient Encounter - Start date: 12-May-2022 - GENERAL MEDICINE - DUMMY, Care Browder - Deer       Click link to double check variable does prescription for browder - Deer         Impatient prescription       Start date Other       Click link to double check variable does prescription for Novorapid         Impatient prescription       22-dup-2022       at a set of the set of
	😨 Finish now 🤥 Next 👿 Cancel

**Appendix3:** Screenshots to aid prescribing Novorapid for meals: dose to be calculated using carbohydrate counting

Create/Amendiagational prescription     Create/Amendiagational prescription	XXTESTPAT	IENT-TJSO ,Donotuse (Mr) 21-Oct-1966 55 yrs 81501539 999-057-232	1 Allernies / ADBs No known allernies / ADBs (last checked on 20-may-2022)
Create/Amend impatient prescription	>>> Create/Ame	nd inpatient prescription 🚿 Print	
Recorded medication       Search and records to start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Impattent taccounter - Start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Impattent taccounter - Start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Impattent taccounter - Start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Impattent taccounter - Start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Impattent taccounter - Start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Impattent taccounter - Start date: 12-May-2022 - GRERAL HUDLINF Care Provider - Open         Cycle fields       Search order set         Cycle fields       Sear	Create/Am	end inpatient prescription	Prescribing considerations
> Other links         > Diservations/Results         > Reconcile	Create/Ame	ation Search ation Search readin Search drug catalogue search drug catalogue search drug catalogue companent item 1 Diabetes for established alaemia Standard Regimen Select Insulin for Type 1 Diabetes for established patients	Prescribing consideration     P
	) Other links ) Li	iks }Observations/Results }Reconcile	Add to favourites) Medication administration > Re-prescribe



>>> Create/Amend inpatient prescription >>>> Print		
Create/Amend inpatient prescription	3) Insert dose range 4) Select 'Unit'	😲 Prescribing considerations 📼 🥑
Recorded medication Search ( 2) Amend the variable dose instructions X, Y and Z. You might need to delete a word in the text box to		5) Press UPDATE – this will launch a 'Changing dose mezzanine screen' or you might get a safety alert first –
enter the ratio's. We suggest delete 'by'.	Add	just press yes if so

XXTESTPATIENT	-TJSO ,Donotuse (Mr) 21-Oc	t-1966 55 yrs	81501539 999-057	7-2321			Allergies / ADRs No i	known allergies/ADRs (last checked on 20-may-2022)
>>> Create/Amend inpati	ient prescription 🚿 Print							
Create/Amend in								<ol> <li>Prescribing considerations </li> </ol>
Create/Amend in Recorded medication S Quick links Search insulin Create multiple compare Insulin for type 1 Diabet Insulin for type 1 Diabet Insulin for type 1 Diabet (Insulin) Hyperkalaemia	patient prescription	LORENZO-Webpage D Insulin aspart - NO' cartridge (NOVO) Basic details Tre Start date time Dose Frequency Duration Variable doe Instructions Variable doe Instructions Full prescription	Normal States Conflicts Real States S	Changing dose me Changing dose me Changing dose Time(s) 05:00 12:00 17:00 17:00 18 Changing dose m n	Dose range check So Stop date time zzanine Dose 0.5 unit 0.5 unit 0.5 unit 0.5 unit 0.5 unit 0.5 unit 1.5 unit	x ed times Arabidedou facilitation facili	Changing dose mezzanine screen will appear. This displays the minimum dose entered.	Prearbing considerations
		🛃 Links	Observations/Results	😿 Remove item			🛛 Qk 🔀 <u>C</u> ancel	
) Other links ) Links ) Ob	oservations/Results  Reconcile				Add to favourites)	Medication administrat	ion ) Re-prescribe	
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XXTESTPATIENT-TJSO ,Donotuse (Mr) 21-Oc	t-1966 55 yrs 81501539 999-057-2321	Allergies / ADRs No known allergies / ADRs (last checked on 20-may-2022)
Create/Amend inpatient prescription Print		
Create/Amend inpatient prescription		0 Prescribing considerations 📼 🖉
Recorded modicition Search	LORENZOWebpage Dialog	×
Ouide links	insulin aspart - NOVORAPID PENFILL 100unit/ml solution for injection cartridge [NOVO]	() Prescribing considerations Care Provider - Open
Search insulin		DRC dose type: System defined
✓ Search order sets ● Beging	Basic details Technically validate Conflicts 🕄 Record administration	Dose range check O
Create multiple component item	Start date time 09-Aug-2022 08:05	Stop date time
Insulin for type 1 Diabetes for established patients 🕥	Dose UOM unit	Slot times for administration Use fixed time(s) Use drug round time(
Insulin for type 1 Diabetes newly diagnosed for 5 years old and above	Frequency	scheduled Drug round ratio has been saved in the
(Insulin) Hyperkalaemia Standard Regimen 🕥	Duration	No records to show 'variable dose instructions'
	Variable dose	limes
2) Check the	instructions	
		Later Brite Ch
frequency is TDS	Frequency Duration	Administration times Variable dose instructions
– 8am, 12pm, 5pm		Calculate by carbohydrate count: 15 minutes  before breakfast 1unit of Novorapid per X
	0.5 - 10 unit THREE times a DAY at 8am 12pm 5pm	Fixed - 08:00/12:00/17:00 lunch 1unit of Novorapid per Y grams of carbohydrate. 15 minutes before tea 1unit of
	Additional options	Novorapid per Z grams of carbohydrate
	Full prescription view The first scheduled administration will be at 09- you wish to prescribe an additional STAT dose?	Aug-2022 12:00 which is 3 hour(s), 54 minute(s) from now. Do
1) Ensure dose	Jinks Observations/Results / Remove item	
range is here		Press OK
) othe		Add to (avourites) Medication administration ) Re-prescribe
		Torichana 🔿 Mart 🗖 Canad
		🕅 runni iou 🦉 Guiver
XXTESTPATIENT-TJSO ,Donotuse (Mr) 21-Oc	t-1966 55 yrs 81501539 999-057-2321	Allergies /ADRs No known allergies/ADRs (last checked on 20-may-2022)
Create/Amend inpatient prescription		🕕 Prescribing considerations 🔷 🖉
Recorded medication Search		
Ouick links	<b>v</b>	Inpatient Encounter - Start date: 12-May-2022 - GENERAL MEDICINE - DUMMY Care Provider - Open
Search	Search drug catalogue	Include ALL completed / discontinued items
✓ Search order sets ● Begins	with O Any word	Inpatient prescription
Create multiple component item		Prescription item Start date Other
		insuln aspart - NOVORAPID PHFILI 100url/m isolution for injection cartridge (NOVO) stoppd/variable - subcutaneous injection - three times ad ay at sinjection - three times ad ay at sinjection - three times ad ay at 0:000, 0:5 - 10 unit at 12:00, 0:5 - 10 unit at 17:00
		Check the prescription.
		correct carbohydrate
		ratios have been set by
		clicking here
Other links   Links   Observations/Results   Reconcile		Rdd to favourites) Medication administration ) Re-prescribe
		😈 Finis <u>h</u> now 🕟 <u>N</u> ext 🔀 <u>C</u> ancel

XXTESTPA	TIENT-TJSO ,Donotuse	(Mr) 21-Oct	-1966 55	yrs 81501	539 999-05	57-2321			Allergies	: /ADRs No known allergie:	s/ADRs (last checked on 20-may-2022)
» Create/Ame	end inpatient prescription 🚿 Print	t									
Create/Am	end inpatient prescriptio	on									(i) Prescribing considerations 📼 🕜
Recorded medi	ication Search		insulin aspart	- NOVORAPID PENF	ILL 100unit/ml sol	ution for injection carl	ridge [NOVO]			¥ IY Care Provider - Open	
Quick links		(				From: 2	2-Aug-2022 14:46 To:				Include cancelled items
Search			Dose	Frequenc	y Duration	Administration ti	nes 🛛 Variable dose i	nstructions			Include ALL completed / discontinued items
b Create multipl	✔ Search	order sets 💿 Begins v	0.5 - 10	THREE time unit DAY at 8am 12pm 5pm	15 a 1	Fixed - 08:00/12:00/	Calculate carbohy 17:00 grams of carbohy carbohydrate. 15	Irate count: 15 minutes befo rate. 15 minutes before lunc ninutes before tea 1unit of N	re breakfast 1unit of Novorapid per X h 1unit of Novorapid per Y grams of lovorapid per Z grams of carbohydrate		
			-Scheduled of Time(s) 08:00 12:00 17:00	05es chart 22-Aug-2022 0.5 - 10 unit	23-Aug-2022 0.5 - 10 unit 0.5 - 10 unit 0.5 - 10 unit	24-Aug-2022 0.5 - 10 unit 0.5 - 10 unit 0.5 - 10 unit					
			H d P	age 1 of 1 🕞 🕅	) tep has no duratio	m and this is an ong	ping prescription. The v	close	3 days		
										C	lick Finish Now
Other links	inks ) Observations/Results ) Reconci	le					📌 Add to favour	ites 🛞 Remo <u>v</u> e) Medication	administration ) Re-prescribe		
										V	Finish now 🚯 Next 👿 Cancel

XXTESTPATIENT-TJSO ,Donotuse (Mr) 21-Oct-1966 55 yrs 81501539 999-057-2321			Allergies /ADRs No	o known allergies/ADRs (last o	checked on 20-may-2022) <sup>(III</sup>
>> Medication administration chart					
Medication administration chart				( <b>)</b> F	Prescribing considerations 🔹 🥑
Chart Infusion/Gases chart Overview					
Chart status: Active				Weight: Not recorde	d Height: Not recorded BSA:
Prescription item		20-Aug-2022	21-Aug-2022	22-Aug-2022	23-Aug-2022
Insulin aspart - NOVORAPID PENFILL 100unit/mi solution for injection cartridge [NOVO] Rease dick the Wanible Date (con (blue and pink) to review further detail for the dose Start date time : 22-Aug-2022 List Insulin aspart - NOVORAPID PENFILL 100unit/mi solution for injection cartridge [NOVO]  Rease dick the Wanible Structure to Control of the dose Start date time : 22-Aug-2022 List Received by : EliotThee Matt	8 98-00 1720 8 12207 17200	Click I BEFC clicking adminis slo	nere DRE on an tration t	17:00 0.5 - 10 unit 17:00 17:00 5 unit	08:00 0.5 - 10 unit 12:00 0.5 - 10 unit 17:00 0.5 - 10 unit 08:00 5 unit 12:00 3 unit 17:00 5 unit
Prescribe  Manage self administration Print Technically validate Show legend				)L <sup>2</sup> Sca	n wristband

Appendix 4: How Do I know Which Item is Which

			From: 22	2-Aug-2022 14:46	i To:			
Dose	Frequenc	y Duration	Administration	times Variabl	e dose instructio	ons		
0.5 - 10 u	THREE time nit DAY at 8am 12pm 5pm	s a	Fixed - 08:00/12:0	0/17:00 Grams of carbohyd	carbohydrate cour ms of carbohydrat carbohydrate. 15 r rate	nt: 15 minutes before bre e. 15 minutes before lune minutes before tea 1unit	eakfast 1unit of Novorapid ch 1unit of Novorapid per Y of Novorapid per Z grams of	Note detail he
heduled do	oses chart		insulin aspart - I	NOVORAPID PENFI	LL 100unit/ml solu	ution for injection cartrid	lge [NOVO] - LORENZO Webpage	Dialog
Time(s)	22-Aug-2022	23-Aug-2022				From: 22-Au	g-2022 15:01 To:	
8:00		0.5 - 10 unit	Dose	Frequency	Duration	Administration time	variable dose instruction	5
2:00		0.5 - 10 unit	Changing d	THREE times ose DAY at 8am	а	Fixed - 08:00/12:00/17	1unit of NOVORAPID is expect	ed to reduce the blood glucose by Y mmol
7:00	0.5 - 10 unit	0.5 - 10 unit		12pm 5pm			(INSERT 1 minols). Aming for	a blood glacose of o minols/i.
	*The last step	has no duration	a					
			-Scheduled dos	ses chart	00 4115 0000	04 4.4 2000		
			Time(s)	22-Aug-2022	23-Aug-2022	24-Aug-2022		
			12:00		3 unit	3 unit		
			17:00	5 unit	5 unit	5 unit		
			H A Pag	e 1 of 1 🕨 🕅				
				*The last step	has no duration a	and this is an ongoing	prescription. The view will show	up to a maximum of 3 days
								Click close & 🦯
								Click close & administer as
								Click close & administer as

Suitable for printing to guide individual patient management but not for storage Review Due: Sept 24 Page **21** of **22** 



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