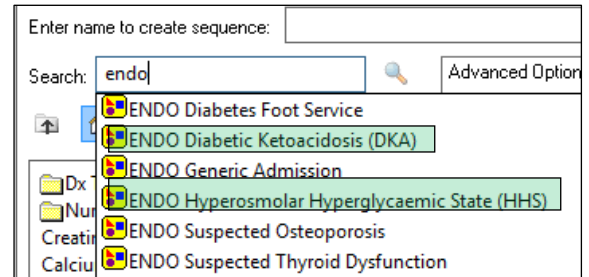


Infusions – Ordering the Diabetic Ketoacidosis (DKA) Orderset



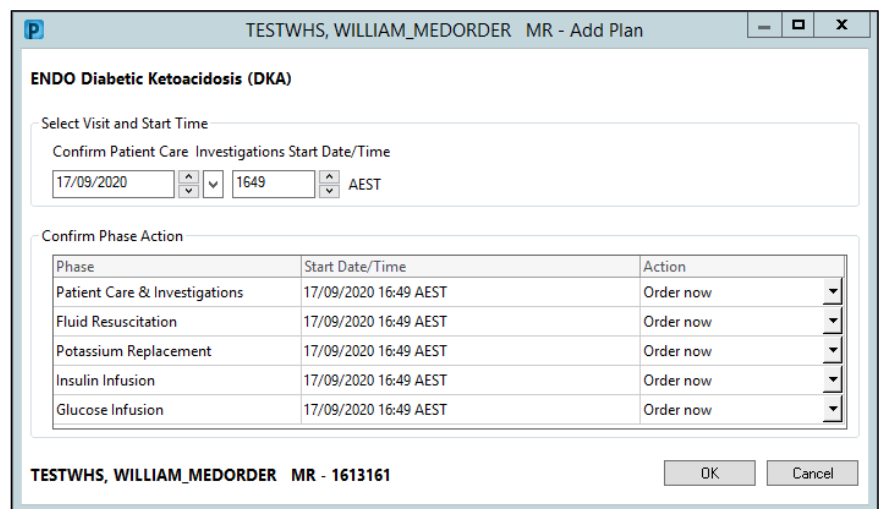
Ordering the ENDO Diabetic Ketoacidosis (DKA) orderset

1. Go to **Orders and Referrals** and click **+Add**
2. Search for "ENDO" and note ordersets for **DKA** and **HHS**.
3. Select the appropriate orderset.

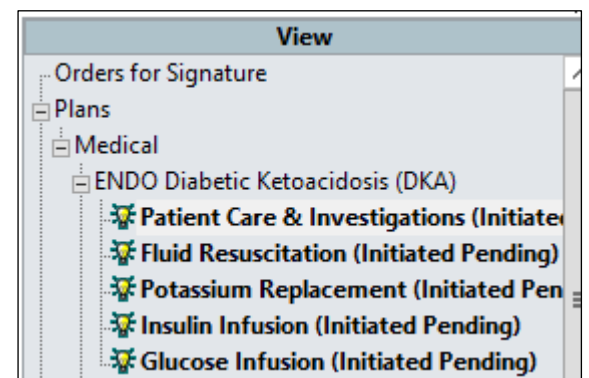


4. A window will display to show this is a multi-phase orderset. Click **OK**

Note: all phases within this orderset have the default action of 'Order Now'



5. All phases appear under **View > Medical**. Click on each phase to view its contents.



6. Patient Care & Investigations

Select all required orders.

***Note*:** VBG orders have been **pre-set** to be taken “Now”, then 4, 8, 12 and 16 hours later. These can all be signed off at the same time.

ENDO Diabetic Ketoacidosis (DKA), Patient Care & Investigations (Initiated Pending)	
DKA - Patient Care & Investigations	
<<< Refer to DKA Management in Adults procedure	
PATIENT CARE	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Diet
<input type="checkbox"/>	<input checked="" type="checkbox"/> Vital Signs Adult
<input type="checkbox"/>	<input checked="" type="checkbox"/> Fluid Balance Chart
<input type="checkbox"/>	<input checked="" type="checkbox"/> Electrocardiogram Bedside (ECG Bedside)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Blood Ketones -Bedside
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Blood Glucose Monitoring Bedside
PATHOLOGY	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Venous (VBG)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Arterial (ABG)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Glucose Level Blood Fasting (FBG)
The below orders are for repeat VBGs in 4, 8, 12 and 16 hours:	
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Venous (VBG)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Venous (VBG)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Venous (VBG)
<input type="checkbox"/>	<input checked="" type="checkbox"/> Blood Gas Venous (VBG)

7. Fluid Resuscitation

Select all required orders.

***Note*:** Three Sodium Chloride 0.9% orders have been pre-defined to run as follows:

- First bag as a bolus
- Second bag over 1 hour
- Third bag over 2 hours

These can be modified if required prior to signing.

	Sodium Chloride 0.9% intravenous solution (sodium chloride 0.9% infusion (BAG BY BAG))	1,000 mL, IV Infusion, Rate: 999 mL/hr, 1 bag(s) BOLUS
	Sodium Chloride 0.9% intravenous solution (sodium chloride 0.9% infusion (BAG BY BAG))	1,000 mL, IV Infusion, 1 bag(s) Second bag
	Sodium Chloride 0.9% intravenous solution (sodium chloride 0.9% infusion (BAG BY BAG))	1,000 mL, IV Infusion, 1 bag(s) Third bag

8. Potassium Replacement

Select the KCl infusion order under the appropriate heading, based on what the patient’s serum potassium level is.

- ***All infusions containing potassium will appear in red to indicate high risk and to ensure review.***
- Each KCl order has been pre-defined to run at the appropriate rate as per PPG.
- The default duration of each order is “5 bags”. Click the drop-down arrow to change if appropriate.
- This can also be changed via the **Details** tab (right click and modify to access).
- After the prescribed number of bags have been administered, the order will discontinue, and doctors will have to place a new order if more bags are required.

	Serum K+ < 3.5 mmol/L	
	High Alert Sodium Chloride 0.29% with Potassium Chloride 10 mmol/100 mL intravenous solution (so...	100 mL, IV Infusion, Rate: 200 mL/hr, 5 bag(s) *Contains potassium chloride* 200 mL/hr = 20 mmol/hour
	Serum K+ 3.5 - 4.5 mmol/L	
	High Alert Sodium Chloride 0.29% with Potassium Chloride 10 mmol/100 mL intravenous solution (so...	100 mL, IV Infusion, Rate: 100 mL/hr, 5 bag(s) *Contains potassium chloride* 100 mL/hr = 10 mmol/hour
	Serum K+ 4.6 - 5.5 mmol/L	
	High Alert Sodium Chloride 0.29% with Potassium Chloride 10 mmol/100 mL intravenous solution (so...	100 mL, IV Infusion, Rate: 50 mL/hr, 5 bag(s) *Contains potassium chloride* 50 mL/hr = 5 mmol/hour
	Serum K+ > 5.5 mmol/L : NO POTASSIUM INFUSION REQUIRED	

▼	100 mL, IV Infusion, Rate: 200 mL/hr, 5 bag(s) *Contains potassium chloride* 200 mL/hr = 20 mmol/hour
▼	100 mL, IV Infusion, Rate: 200 mL/hr, 10 bag(s)
▼	100 mL, IV Infusion, Rate: 200 mL/hr, 15 bag(s)

Details	Continuous Details	Or
<div style="display: flex; justify-content: space-between;"> + ... ▼ </div>		
Drug Form: <input type="text"/>		
Route of administration: <input type="text" value="IV Infusion"/>		
*Duration: <input type="text" value="5"/>		
*Duration unit: <input type="text" value="bag(s)"/>		

9. Insulin Infusion

Select the insulin infusion order.

Right click and modify to view the **Continuous Details** tab.

***Note*:** Insulin has a rate of **TITRATE**, meaning that nursing staff can titrate the infusion as per policy without the doctor having to modify the order each time.

Base Solution	Bag Volume	Rate
Sodium Chloride 0.9% infusion 100 mL		TITRATE
Additive	Additive Dose	Normalized Rate
novoRAPID (additive)	100 unit(s)	
Total Bag Volume		100 mL

Review standard policy in the **Order Comments**. This can be edited if required, and will be 'face up' on the MAR for nursing staff to see.

10. Glucose Infusion

Select the glucose 5% infusion order.

***Note*:** This has been pre-defined as 1L to run over 8 hours. This can be modified if required prior to signing.

In this instance, glucose 5% has been built as a **truly continuous** infusion, meaning that nursing staff can continue to hang new bags as per policy without the doctor having to place a new order.



11. Click **Orders For Signature** to review all orders that have been selected from all phases.

Click each infusion order to make modifications as required.

Patient Care				
	Blood Ketones - Bedside	Order	24/10/2020 20:14	24/10/2020 20:14 AEDT, 4 hourly, for 24 hr(s), Stop Date 2
	Blood Glucose Monitoring Bedside	Order	24/10/2020 20:14	24/10/2020 20:14 AEDT, 1 hourly
Continuous Infusions				
	sodium chloride 0.9% infusion (BAG BY BAG...	Order	24/10/2020 20:14	1,000 mL, IV Infusion, Rate: 999 mL/hr, 1 bag(s), First dose BOLUS
	sodium chloride 0.9% infusion (BAG BY BAG...	Order	24/10/2020 20:14	1,000 mL, IV Infusion, Rate: 1,000 mL/hr, 1 bag(s), First dose Second bag
	sodium chloride 0.9% infusion (BAG BY BAG...	Order	24/10/2020 20:14	1,000 mL, IV Infusion, Rate: 500 mL/hr, 1 bag(s), First dose Third bag
	novoRAPID (additive) 100 unit(s) + Sodium ...	Order	24/10/2020 20:14	100 mL, IV Infusion, Rate: TITRATE, First dose 24/10/2020 Titrate as per below BGL results: BGL: <5.0mmol/L
	glucose 5% infusion 1000 mL	Order	24/10/2020 20:14	1,000 mL, IV Infusion, Rate: 125 mL/hr, First dose 24/10/2020 Commence once blood glucose falls to 15 mmol/L
	sodium chloride 0.29% with potassium chlori...	Order	24/10/2020 20:14	100 mL, IV Infusion, Rate: 100 mL/hr, 5 bag(s), First dose: *Contains potassium chloride* 100 mL/hr = 10 mmol/hr
Pathology				
	Blood Gas Venous (BGL)	Order	24/10/2020 20:14	Collect Now, Spec Type: Blood, 24/10/2020 20:14 AEDT

12. Complete any mandatory fields, then **Sign** orders and **Refresh** the MAR / MAR Summary to review before communicating with nursing staff.

***Note*:** As all infusions within this order set are **Bag by Bag** or **Truly Continuous**, only the rate is displayed on the MAR (i.e. no infuse over time)

The BGL protocol can be viewed by hovering over the insulin infusion order.

Continuous Infusions

glucose 5% infusion 1,000 mL
1,000 mL, IV Infusion, Rate: 125 mL/hr, First dose 24/10/2020 20:14:00, Total volume (mL): 1,000
Commence once blood glucose falls to 15 mmol/L

Administration Information
Glucose 5% in Water intravenous solution

novoRAPID (additive) 100 unit(s)
Sodium Chloride 0.9% infusion 100 mL
100 mL, IV Infusion, Rate: TITRATE, First dose 24/10/2020 20:14:00, Titrate Plan: AS PER ORDER
COMMENTS, Total volume (mL): 100
Titrate as per below BGL results: BGL: <5.0mmol/L | Withold infusion for 1 hour, Re-com...

Administration Information
insulin aspart
Sodium Chloride 0.9%

sodium chloride 0.29% with potassium chloride 10 mmol/100 mL infusion (BAG BY BAG) 100 mL
100 mL, IV Infusion, Rate: 100 mL/hr, 5 bag(s), First dose 24/10/2020 20:14:00, Stop date 25/10/2020 01:13:00, Total volume (mL): 100
Contains potassium chloride 100 mL/hr = 10 mmol/hour

Administration Information
NaCl 0.29% with KCl 10 mmol/100 mL IVsol

sodium chloride 0.9% infusion (BAG BY BAG) 1,000 mL
1,000 mL, IV Infusion, Rate: 999 mL/hr, 1 bag(s), First dose 24/10/2020 20:14:00, Stop date 24/10/2020 21:13:00, Total volume (mL): 1,000
BOLUS

Administration Information
Sodium Chloride 0.9%

Glucose 5% in water intravenous solution

novoRAPID (additive) 100 unit(s)
Sodium Chloride 0.9% infusion 100 mL
100 mL, IV Infusion, Rate: TITRATE, First dose 24/10/2020 20:14:00, Titrate Plan: AS PER ORDER
COMMENTS, Total volume (mL): 100
Titrate as per below BGL results: BGL: <5.0mmol/L | Withold infusion for 1 hour, Re-commence at 0.3 units/hour
Notify endocrinology registrar

Administration Information
insulin aspart
Sodium Chloride 0.9%

sodium chloride 0.29% with potassium chloride 10 mmol/100 mL infusion (BAG BY BAG) 100 mL
100 mL, IV Infusion, Rate: 100 mL/hr, 5 bag(s), First dose 24/10/2020 20:14:00, Stop date 25/10/2020 01:13:00, Total volume (mL): 100
Contains potassium chloride 100 mL/hr = 10 mmol/hour

Administration Information
NaCl 0.29% with KCl 10 mmol/100 mL IVsol

sodium chloride 0.9% infusion (BAG BY BAG) 1,000 mL
1,000 mL, IV Infusion, Rate: 999 mL/hr, 1 bag(s), First dose 24/10/2020 20:14:00, Stop date 24/10/2020 21:13:00, Total volume (mL): 1,000
BOLUS

Administration Information
Sodium Chloride 0.9%