

Medication Alert

HUMALOG® INSULIN Preparations

Alert 10 April 2010

For the attention of: All prescribers, pharmacists and nurses

For action by: Primary Care Facilitators, PHO Clinical Leaders – for dissemination to all GPs in

your PHO, DHB Medicines Advisory Committees, Medication Safety Pharmacists,

Quality Managers

For information to: College of GPs, Pharmaceutical Society of NZ, Pharmacy Council, College of

Nurses, Schools of Medicine, Pharmacy and Nursing, NZ Hospital Pharmacists'

Association, New Zealand Nurses Organisation

Purpose of this alert

To highlight the risk of errors caused by the confusion that can occur during the prescribing, dispensing and administration of the following insulin products: Humalog®

Humalog Mix25[®] Humalog Mix50[®]

Background to this Safe Use of Medicines Alert

- There is the potential for serious harm if a patient receives rapid acting plain Humalog® when a mixed rapid/intermediate acting Humalog Mix® product is intended, especially for those on high doses
- Humalog® has been available in New Zealand for a number of years, but Humalog Mix 25® and Humalog Mix 50® have been introduced recently
- One DHB has reports of six prescribing and two administration incidents in a 10 week period involving confusion between Humalog® and Humalog Mix® products
- Dispensing errors have been reported where Humalog[®] has been dispensed instead of Humalog Mix25[®] or Humalog Mix50[®]

Recommended Action

- Prescribe insulin using the FULL BRAND name; prescribe units in FULL
- Highlight this potential for error to as many healthcare professionals as possible distribute this Alert widely throughout your DHB
- Highlight the potential for error to patients prescribed Humalog[®] or Humalog Mix[®]
- When using electronic prescribing or dispensing systems cross check you have selected the correct item from the drop-down menu – remember there are three Humalog products available
- Check what type of insulin the patient should be on e.g. rapid acting or a mixture of rapid and intermediate acting insulin and prescribe the insulin using the FULL BRAND name
- Confirm with the patient (or carer) that the correct insulin is being prescribed, dispensed or administered

For further action by DHBNZ Safe and Quality Use of Medicines Group

1. The group will work with Patient Management Systems and dispensary systems to introduce alerts to highlight the different formulations

HUMALOG® Product Descriptions

Brand Name	Humalog®	Humalog Mix25®	Humalog Mix50®
Type of insulin	RAPID ACTING	INTERMEDIATE-ACTING PREMIXED INSULIN LISPRO	INTERMEDIATE- ACTING PREMIXED INSULIN LISPRO
Appearance	CLEAR	CLOUDY	CLOUDY
Generic Name	insulin lispro Rbe (rapid acting)	25% insulin lispro (rapid acting) PLUS 75% insulin lispro protamine suspension Rbe (intermediate acting)	50% insulin lispro (rapid acting) PLUS 50% insulin lispro protamine suspension Rbe (intermediate acting)
Presentation	10ml vials 3ml cartridges	3mL cartridges	3 mL cartridges
Onset of action	0 to 15 minutes	0 to 15 minutes	0 to 15 minutes
Peak	1 hour	1 hour	2 hours
Duration	2 to 5 hours	16 to 18 hours	16 to 18 hours

CASE STUDY

A hospital inpatient was commenced on Humalog Mix25® with a dose of 20 units each morning, and 24 units each evening.

The prescription was faxed to the hospital Pharmacy; Humalog Mix25® was dispensed with an individualised patient label, and stored in the ward fridge. A vial of Humalog® was already in the ward fridge.

24 units of Humalog® were administered in the evening and another 20 units of Humalog® the following morning. The patient had a hypoglycaemic episode two hours after the first dose, and had hyperglycaemia the following morning prior to receiving the second dose of Humalog®, resulting in a prolonged hospital stay to stabilise the blood sugar level.

For an electronic version of this alert download from the website, www.safeuseofmedicines.co.nz or contact Beth Loe, Beth.Loe@waitematadhb.govt.nz

These recommendations are based on a review of the currently available information in order to assist practitioners. The recommendations are general guidelines only and are not intended to be a substitute for individual clinical decision making in specific cases

If you require any further information or wish to provide feedback on this alert, please go to www.safeuseofmedicines.co.nz