

# Paediatric Hypoglycaemia

## “GRAB BAG”

(For all patients requiring a ‘Hypo screen’ for hypoglycaemia in RAH/IRH)

| <b><u>‘PAEDS HYPOGLYCAEMIA - TIME CRITICAL SAMPLES’</u></b><br>(Samples required <b><u>PRIOR</u></b> to administration of glucose) |  |                                |
|--|--|--------------------------------|
| TEST   | TUBE TYPE  | VOLUME REQUIRED                |
| Glucose  | Fluoride oxalate (Grey)                            | 500 microlitres (half full)    |
| Free fatty acids   | Fluoride oxalate (Grey)                            | 500 microlitres (half full)    |
| Insulin<br>C-peptide   | Lithium Heparin (Green)                            | 1ml ideally                    |
| Beta OH butyrate   | Lithium Heparin (Green)                            | 500 microlitres (half full)    |
| Cortisol   | Lithium Heparin (Green)                            | 500 microlitres (half full)    |
| Lactate<br>(Capillary blood gas)   | Capillary blood gas tube<br>(Gas analyser on ward) | Aim for 1 full capillary tube. |

**\*\*\*SAMPLES MUST BE IN LAB WITHIN 15 MINUTES OF COLLECTION\*\*\***  
CONTACT LAB TO INFORM THEM OF URGENT HYPOGLYCAEMIA SAMPLES

| <b><u>‘PAEDS HYPOGLYCAEMIA - ADDITIONAL ESSENTIAL’</u></b><br>(Sample can be taken <b><u>AFTER</u></b> administration of glucose) |   |   |
|---|---|---|
| TEST  | TUBE TYPE   | VOLUME REQUIRED                           |
| *Ammonia<br>U&Es<br>LFTs<br>CRP   | Lithium Heparin (Green)<br>* labile sample, must arrive in lab within 15 mins, <b>phone lab to inform</b> | 1ml (1 bottle)                            |
| Acylcarnitine   | Blood spot - Guthrie card   | Send to lab                               |
| FBC   | EDTA<br>(small Purple screw top)  | 500 microlitres<br>(up to mark on bottle) |
| Blood culture   | Age and volume dependant  |   |
| <b>URINARY</b> organic acids  | <b>URINE</b> in <b>WHITE</b> top universal container  | 5mls                                      |

SEE OVER PAGE FOR GUIDANCE ON ORDERING ALL ABOVE SAMPLES ON TRAKCARE

# How to order on TRAKCARE

**\*Do NOT use Hypoglycaemia Screen on TRAKCARE\***

## **‘PAEDS HYPOGLYCAEMIA - TIME CRITICAL SAMPLES’**

(Samples required **PRIOR** to administration of glucose)

TO ORDER THE **‘TIME CRITICAL SAMPLES’** THEN FOLLOW THESE STEPS:

1. ENSURE PATIENT HIGHLIGHTED ON SCREEN THEN CLICK ON “NEW REQUEST” TAB.
2. SELECT APPROPRIATE TEST IN POP-UP SCREEN FOR: GLUCOSE
3. ON THE RIGHT SIDE OF SCREEN TYPE THE REQUESTED TEST IN SECTION TITLED “ITEM” THEN HIT THE MAGNIFYING GLASS [Q] (TO THE RIGHT OF THE BOX)

**\*\*ALWAYS SELECT THE ‘- CHILD’ OPTION FOR THE TEST REQUESTED (WHEN AVAILABLE)\*\***

**HINTS:**

- FOR **INSULIN** TYPE ‘INS’ THEN HIT [Q] – POP-UP CLICK ON ‘UPDATE’
- FOR **C – PEPTIDE** ENSURE THERE IS A SPACE EITHER SIDE OF THE ‘-’ BEFORE HITTING [Q]
- FOR **FFAS** TYPE ‘FREE’ THEN HIT [Q]
- FOR **BETA OH BUTYRATE** TYPE ‘BETA’ THEN HIT [Q]
- FOR **CORTISOL** TYPE ‘COR’ THEN HIT [Q]
- REMEMBER LACTATE IS TAKEN ON A CAPILLARY GAS TUBE AND PROCESSED ON THE WARD.

## **‘PAEDS HYPOGLYCAEMIA - ADDITIONAL ESSENTIAL’**

(Sample can be taken **AFTER** administration of glucose)

TO ORDER THE **‘ADDITIONAL ESSENTIAL’** SAMPLES THEN FOLLOW THE SAME PROCESS AS ABOVE.

**\*\*ALWAYS SELECT THE ‘- CHILD’ OPTION FOR THE TEST REQUESTED (WHEN AVAILABLE)\*\***

**HINTS:**

- FOR **AMMONIA** TYPE ‘AMMON’ THEN HIT [Q]
- FOR **ACYLCARNITINE** ENSURE YOU SELECT THE OPTION WITH ‘BS’ AT THE END.
- FOR **URINARY ORGANIC ACIDS** TYPE ‘ORGANIC’ THEN HIT [Q]

ONLY STICK **ONE** ‘TRAKCARE’ LABEL TO THE CORRESPONDING TUBE. THE REMAINING LABELS SHOULD REMAIN ON THE REQUEST FORM AND ACCOMPANY THE SAMPLES TO THE LAB