

Title: Diagnosis of Hyperinsulinism			
Manual Classification: Service Specific NICU Medical	Effective Date: 6 November 2014	Expiry Date: 6 November 2017	Keywords: <i>(supply 5 keywords - search engine)</i> Diagnosis, hyperinsulinism
Facilitator <i>sign/date</i>	Sponsor <i>sign/date</i>		Process Authorised <i>sign/date</i>
Name and title: David Bouchier Clinical Director	Name and title: David Graham Clinical Director Child Health		Name and title:

© Waikato DHB, 2013

CRITERIA

- (a) Fasting hypoglycaemia (< 2.8 mmol/L)
- (b) Plasma insulin >22 pmol/L (0.6 ml plain tube)
- (c) Plasma C-peptide >350mmol/L (1ml EDTA on ice)

and / or

- (d) Evidence of excessive Insulin effect, such as:
 - (i) ↑ glucose consumption (> 8 mg/kg/min)
 - (ii) Plasma β-OH butyrate < 2 mmol/L (0.4 ml heparin tube)
 - (iii) Plasma Free Fatty Acids < 1.5 mmol/L (0.6 ml plain tube, on ice)
- (e) Inappropriate glycaemic response to glucagon stimulation (> 1.7 mmol/L)

References

1. Hoe, et al. J Pediatr 2006; 148: 207-12
2. EPSE, Dublin 2014. Poster 480

Disclaimer: This document has been developed by Waikato District Health Board specifically for its own use. Use of this document and any reliance on the information contained therein by any third part is at their own risk and Waikato District Health Board assumes no responsibility whatsoever.