

**BLOOD COLLECTION INSTRUCTION FORM – UNDIAGNOSED HYPOGLYCEMIA (glucose ≤ 3.0 mmol/L)  
STAT COLLECTION TO OCCUR PRIOR TO HYPOGLYCEMIA TREATMENT**

Tests	Specimen Collection Tube	Sample Volume		Special Handling Instructions  *Fill tubes in order listed – red, green, grey
		Child	Neonates and where recommended volume not available ( <b>MINIMUM</b> )	
Capillary pH	Capillary tube for pH	0.1 mL	0.1 mL (1 capillary tube)	
Endocrine ○ Insulin, Cortisol, Growth Hormone	Red Top	2.0 mL	2.6 mL*	*When sharing tube between Endocrine and Biochemical Genetics Lab (BGL): 2.0 mL for FFA, 0.6 mL for Endocrine.
Biochemical Genetics (BGL) ○ Free Fatty Acids (FFA)	Red Top	2.0 mL		
Chemistry ○ Glucose, Na, K, Cl, CO <sub>2</sub> , Ammonia, Uric Acid, Beta-hydroxybutyrate, Triglycerides, and Cholesterol	Green Top (Lithium Heparin)	2.0 mL	2.0 mL*	<ul style="list-style-type: none"> <li>• No tourniquet</li> <li>• Place sample on ice</li> </ul> *When sharing tube between Chemistry and BGL: 1.0 mL for PAA regardless of whether minimum or optimal volume collected.
Biochemical Genetics (BGL) ○ Plasma Amino Acids (PAA)	Green Top (Lithium Heparin)	1.0 mL		
Lactate	Grey Top (Sodium Fluoride)	2.0 mL	0.5 mL	<ul style="list-style-type: none"> <li>• No tourniquet</li> <li>• Place sample on ice</li> </ul>
Acylcarnitine Profile	Blood Spot Card	0.1 mL (1 spot)	0.1 mL (1 spot)	Card must remain horizontal until dry (3 hours).
Urine Ketones	Orange Screw Top Urine Container	1 mL	3 mL*	* When sharing sample between departments, combine total 3.0 mL in one container
Urine Organic Acids	Orange Screw Top Container	5 mL		Transport to Lab at room temperature immediately.

Total optimal volume blood: Child 9.2 mL (5.0 no tourniquet + 4.2 with tourniquet) | Neonate 5.3 mL (2.5 no tourniquet + 2.8 with tourniquet)

CWAC\_PHL\_4600JA1\_Blood Collection Instructions for Undiagnosed Hypoglycemia v 1.0

## Revision Log

Version	Description of Change	Revision Date
1.0	<ul style="list-style-type: none"><li>• Upload to LabQMS</li></ul>	21 Jan 2020

**Attention: This document is published on the ePOPS website**

**Revisions made to this document require an update to the corresponding document published on ePOPS website**

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