

# SPECIAL PROCEDURES FOR CLINICAL CHEMISTRY

## Protocols for Dynamic Testing

For adult subjects the sample collections are tabulated as below.

Colour key for tables

	Grey Tube
	Red tube
	Purple Tube
	Urine

- Acromegaly – Oral Glucose Tolerance Test. Fasting is required.

003-1685	<b>Adult – OGTT for Acromegaly</b>	
Time	Glucose	GH
0'		
30'		
60'		
90'		
120'		

- Adrenals – Short Synathen Test. Fasting is not required.

003-1726	<b>Adult - SST</b>	
Time	Cortisol	17OH Prog
0'		
30'		
60'		

- Adrenals – Adrenal Venous Sampling. Fasting is not required. Request FBC, RP#1, Pt/PTT to ensure all normal prior to testing

003-1790	<b>Adult - AVS</b>		
Position	Cortisol	Aldosterone	Renin
Left Adrenal			
Right Adrenal			
Above (IVC)			
Below (IVC)			

- Anterior Pituitary Function – Gonadotrophin Releasing Hormone. A baseline testosterone (male) or estradiol (female) should also be ordered and collected. Fasting is not required.

003-1682	Adult - GnRH	
Time	LH	FSH
0'		
20'		
60'		

- Anterior Pituitary Function – Glucagon Stimulation Test. Starvation >48hours is required.

003-1683	Adult – Glucagon Stimulation		
Time	Glucose	GH	Cortisol
0'			
90'			
120'			
150'			
180'			
210'			

- Anterior Pituitary Function – Insulin tolerance Test.

003-1878	Adult - ITT		
Time	Glucose	Cortisol	GH
0'			
15'			
30'			
45'			
60'			
90'			
120'			

- Anterior Pituitary Function – Thyrotrophin Releasing Hormone Test. Fasting is not required.

003-1684	Adult - TRH	
Time	TSH	ft4
0'		
20'		
60'		

- Cushing's Syndrome – Corticotrophin Releasing Hormone Test. Fasting is required.

003-1686	Adult - CRH	
Time	ACTH	Cortisol
0'		
15'		
30'		
45'		
60'		
90'		

- Cushing’s – Bilateral Inferior Petrosal Sinus Sampling. Fasting is not required. Request FBC, RP#1, Pt/PTT to ensure all normal prior to testing

003-1687	<b>Adult - IPSS</b>	
Time		ACTH
	High jugular, right	
	High jugular, left	
	High jugular, peripheral	
	Low jugular, right	
	Low jugular, left	
	Low jugular, peripheral	
0'	Right petrosal sinus	
0'	Left petrosal sinus	
0'	Peripheral	
2'	Right petrosal sinus	
2'	Left petrosal sinus	
2'	Peripheral	
5'	Right petrosal sinus	
5'	Left petrosal sinus	
5'	Peripheral	
10'	Right petrosal sinus	
10'	Left petrosal sinus	
10'	Peripheral	

- Posterior Pituitary Function – Water Deprivation Test. Fasting is not required.

003-1688	<b>Adult – Water Depravation Test</b>		
Time (hr)	Osmolality, u	Osmolality	Sodium
0.5		P1	P1
1.0	U1		
3.5		P2	P2
4.0	U2		
6.5		P3	P3
7.0	U3		
8.0	U4	P4	P4
9.0	U5	P5	P5

For paediatric subjects the sample collections are tabulated as below

- Synacthen – Congenital Adrenal Hyperplasia. Fasting is not required.

003-1653 Paeds-Synacthen-CAH		
Time	Cortisol	17OH Prog
0'		
30'		
60'		

- Gonadotrophin Releasing Hormone.

003-1654 Paeds-GnRH		
Time	LH	FSH
0'		
30'		
60'		
90'		

- Glucagon Stimulation Test.

003-1656 Paeds-Glucagon Stimulation				
Time	Glucose	GH	Cortisol	IGF-1
0'				
60'				
90'				
120'				
150'				
180'				

- Growth Hormone Stimulation.

003-1657 Paeds-GH Stimulation		
Time	GH	IGF-1
0'		
10'		
20'		

- Growth Hormone Suppression.

003-1655 Paeds-GH Suppression			
Time	Glucose	GH	IGF-1
0'			
30'			
60'			
60'			
120'			
150'			
180'			

- Thyrotrophin Releasing Hormone Test

003-1658	Paeds-TRH		
Time	TSH	fT4	fT3
0'			
30'			
60'			
90'			
120'			

- Thyrotrophin Releasing Hormone – Prolactin Test

003-1659	Paeds-TRH-PRL
Time	
0'	
30'	
60'	
90'	
120'	

- HCG Stimulation Test

003-1651	Paeds-HCG Stimulation		
Day	Testosterone	DHT	Androstenedione
1			
4			