

Department:	Biochemistry		
Site	All sites	Revision No:	4
Document title:	Endocrine Dynamic Function Test Protocols - Adults		

## Growth Hormone Day Curve

### Indications

To assess clinical severity of growth hormone excess in acromegaly and to assess response to medical or surgical treatment.

### Contraindications

None

### Side Effects

None

### Requirements

- Indwelling cannula
- 4 x brown top serum tubes

### Procedure

- The number of samples and timing may vary for each patient, examples given below.
- Record time each sample is collected.

Sample No.	Time	Procedure	Sample
	08:45	Insert cannula and allow the patient to rest for 15 mins so that stress does not interfere with the results	
1	09:00	Take sample for Growth Hormone and IGF-1	1 x brown top serum tube (GH) 1 x brown top serum tube (IGF-1)
2	12:00	Take sample for Growth Hormone	1 x brown top serum
3	15:00	Take sample for Growth Hormone	1 x brown top serum
4	18:00	Take sample for Growth Hormone	1 x brown top serum
5	Additional time point if required	Take sample for Growth Hormone	1 x brown top serum

### Interpretation of results

The mean Growth Hormone level should be <1.7 µg/L

Well controlled patients in remission should have at least one suppressed level <0.3 µg/L

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