



4-Hour Glucose-Insulin Tolerance Report

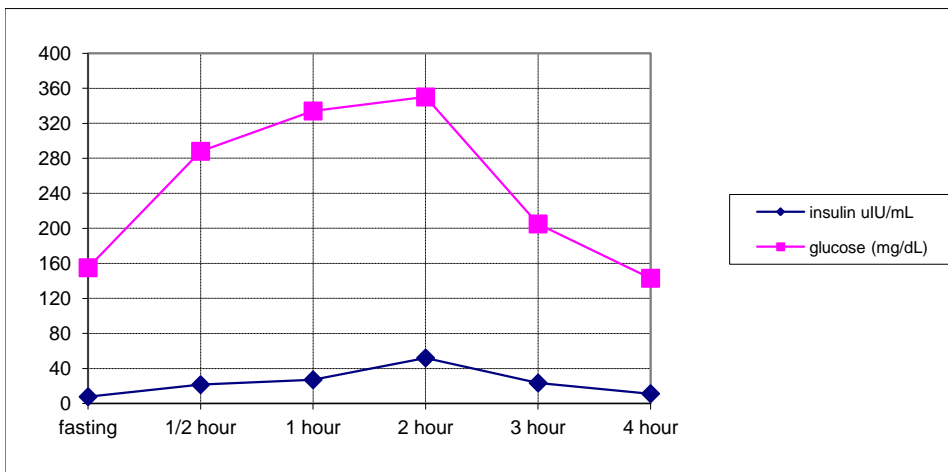
Patient Name:	SCHNEEBECK, ANDREA
Dr. /Clinic:	Tahoma Clinic Research Study

Accession No.:	1042697
Test ID	381309
Specimen Date:	02/07/12
Date Received:	02/07/12
Date Reported	02/13/12

X axis	Y axis	
	insulin uIU/mL	glucose (mg/dL)
fasting	7.65	155
1/2 hour	21.41	288
1 hour	27.05	334
2 hour	51.97	350
3 hour	23.4	205
4 hour	11.16	143

Reference Range for Fasting Glucose
65 - 99 mg/dL *

* Reference Ranges changed per 2007 ADA classifications
Criteria for diagnosis:
Normal Glucose Tolerance: <140 mg/dL
Impaired Glucose Tolerance: 1 Hr Glu 140-199 mg/dL
Diabetes Mellitus: 2 Hr Glu >199 mg/dL



Add 2nd and 3rd Hour: 75.37 u.i.u./mL

Comments: Pattern III - A

TECH: ZT

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Kraft's Criteria for interpretation of Glucose-Insulin Tolerance

Pattern I - Normal

1. Normal Fasting Insulin between 0-10
2. Insulin peaks at 1/2 or 1 hour
3. 2nd hour is less than 50
4. 3rd hour is less than 2nd hour
5. 2nd hour plus 3rd hour is less than 60
6. Subsequent hour values at fasting range (0-10)

Pattern II - Peak at 1/2 to 1 hour with delayed return to normal

1. Normal Fasting Insulin between 0-10
2. Insulin peaks at 1/2 or 1 hour
3. 2nd and 3rd hour total > 60 and <100 = Borderline for Insulin Resistance
4. 2nd and 3rd hour total >100 = Considered definite Insulin Resistance

Pattern III - A Considered diagnostic for Insulin Resistance

1. Normal Fasting Insulin between 0-10
2. Insulin peaks at 2nd hour

Pattern III - B Considered diagnostic for Insulin Resistance

1. Normal Fasting Insulin between 0-10
2. Insulin peaks at 3rd hour

Pattern IV Considered Positive for Insulin Resistance

1. Fasting Insulin greater than 10

Pattern V Insulinopenic Pattern

1. Low Insulin Response; All Values < 30
2. If glucose values are elevated; Considered to be the 'juvenile' pattern of Diabetes.
In effect insulin deficiency, probably because of dead or near dead islet cells.
3. If normal or borderline glucose tolerance; may be due to a low carbohydrate diet

References:

1. Detection of Diabetes Mellitus, In Situ(occult diabetes), Kraft, Joseph R. Laboratory Medicine, Volume VI, #2, pages 10-22, February 1975.
2. Neurobiology of Hypoglycemia Syndrome, Hudspeth, W.J. Et Al, Journal of Holistic Medicine, Volume III, #1, pages 60-71, Spring/Summer, 1981.
3. Classification of Diabetes: Not All Hyperglycemia is the Same, Fowler, Michael J. Clinical Diabetes, Volume 25, pages 74-76, 2007.