

Brenda Javier

Lab 8: Hormonal activity – The glucose tolerance test

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Purpose: The purpose for this experiment is to see how the body reacts

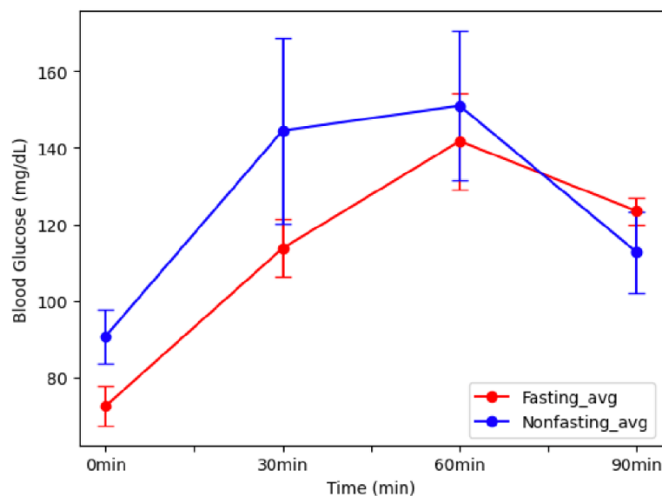
Procedure:

8A)

1. Six student volunteers will be selected for this experiment. These subjects should report to the lab in the fasted state – not having eaten for 10-12 hours.
2. Each student's normal fasting blood glucose level will be determined using the test strips for the glucometer assigned to each student. Each volunteer will clean a finger with 70% alcohol, then use a sterile lancet to obtain a drop of blood for the test. **If a student is helping another obtain a blood sample, gloves and universal precautions will be followed.
3. Each subject will then drink a lemon-flavored solution (Tru-Glu) of 25% glucose. The quantity of solution will be based on 1 g of glucose per kilogram of body weight. To determine body weight in kilograms, the weight in pounds will be divided by 2.2.
4. After ingesting the glucose, the subject will repeat the blood testing procedures every 30 minutes. Testing will continue in this manner for 1 1/2 hours or until the end of the lab period.
5. Record and graph the average of the class results of the blood glucose tests.
6. Compare the results with the normal glucose tolerance test curve. Describe the graphs in terms of absorptive and post-absorptive states.

Results:

8A) Glucose tolerance test



group	<u>Fasting1</u>	<u>Fasting2</u>	<u>Fasting3</u>	<u>Fasting4</u>	<u>Non-fasting5</u>	<u>Non-fasting6</u>	<u>Non-fasting7</u>	<u>Non-fasting8</u>
<u>0min</u>	72	59	75	84	86	101	103	73
<u>30min</u>	95	113	132	115	203	159	127	89
<u>60min</u>	115	136	176	140	208	122	129	145
<u>90min</u>	118	118	133	125	82	119	119	131

Discussion: In lab 8, we only had to do one experiment which I liked since it just involved us waiting on the results. I personally didn't do the test, but some classmates did so we ended up using that data. I've done the glucose test but for my pregnancy so I kind of had the gist of it so nothing new to me.

Conclusion: In conclusion, this was an interesting experiment since we got to see how one's body reacted without eating and then drinking a sugary drink. There was a noticeable change after people took the drink.