

Laboratory 8 – Hormonal Activity

Purpose

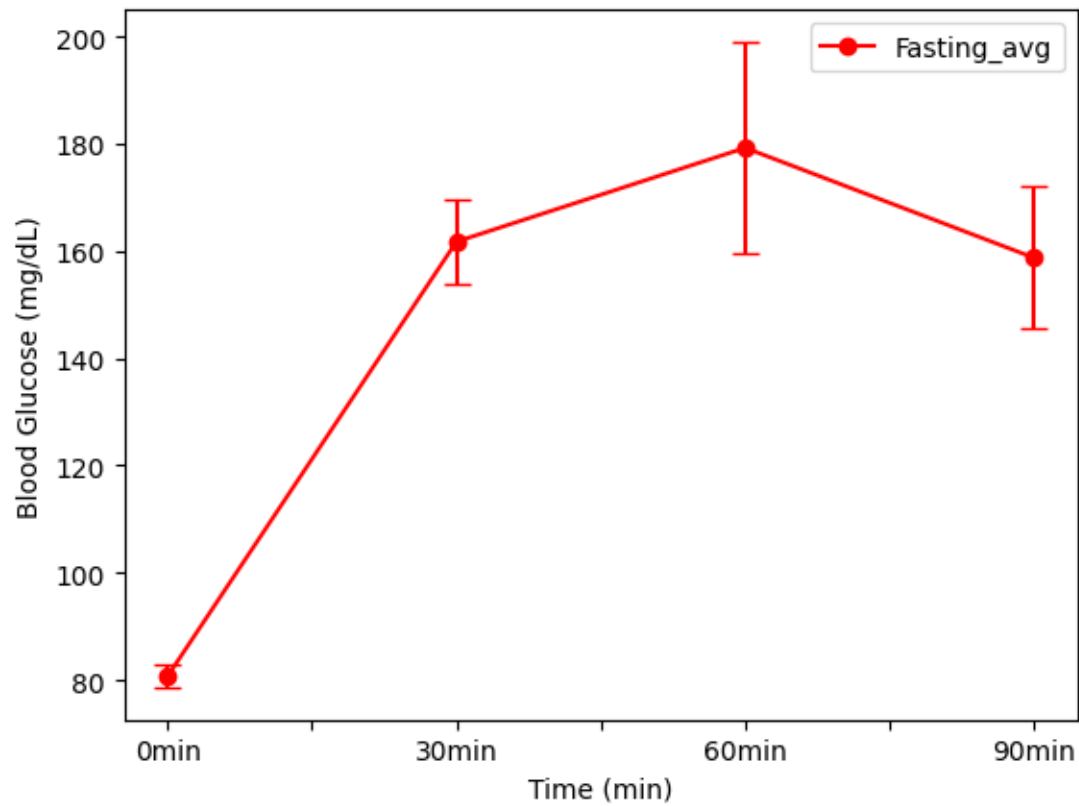
The purpose of this lab was how hormones are chemical messengers that are secreted directly into the blood by the endocrine glands. Insulin when it is lacking only small amount of glucose can cross the cell membrane and be used in cellular metabolism.

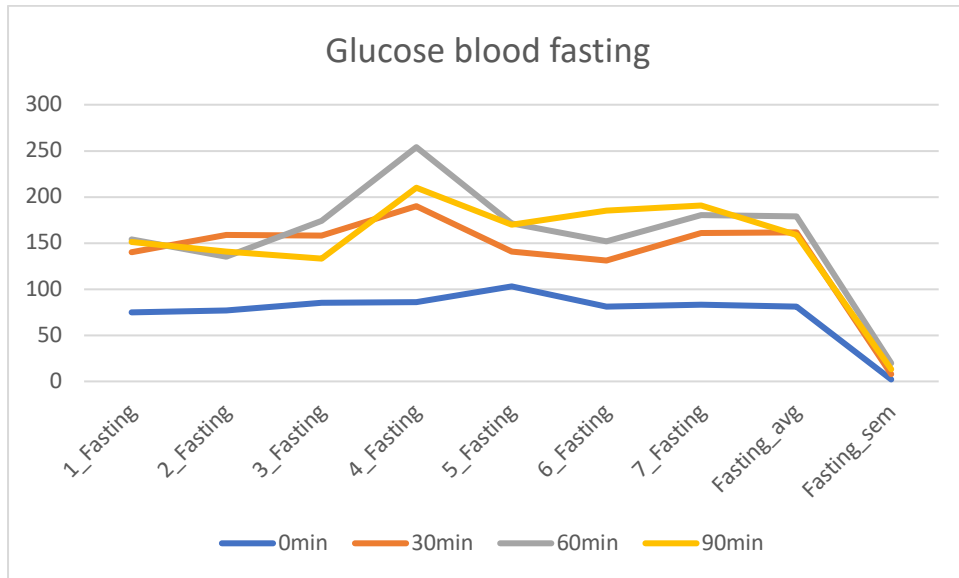
Procedures

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

graphed chart with data collected from the procedure. From students who did the glucose fasting.





Discussion

Each time the students who fasted tested would test every 30 minutes. Each time the blood glucose would rise.

Conclusion

In conclusion the students experienced an normal percentage of range when fasting. Which is 60 mg% to 140 mg%.