



Virtual Learning

Medical Interventions

Evolution of Diabetes Treatment

May 4, 2020



Medical Interventions

Lesson: May 4, 2020

Objective/Learning Target:

Describe the evolution of the methods used to diagnose and treat diabetes from the 1800s through today. (4.1.1)



Let's Get Started:

1. Review the information on diabetes that you learned about in PBS by reading the information from [the CDC](#).
2. What hormone is most associated with diabetes? Why?
3. What medical interventions are part of diabetes?



Let's Get Started: **Answers**

1. Review the information on diabetes that you learned about in PBS by reading the information from [the CDC](#).
2. What hormone is most associated with diabetes? Why?
 - a. Insulin; people with diabetes either don't produce enough or no longer respond to it
3. What medical interventions are part of diabetes?
 - a. Insulin shots, insulin pumps, non-insulin medications, etc.

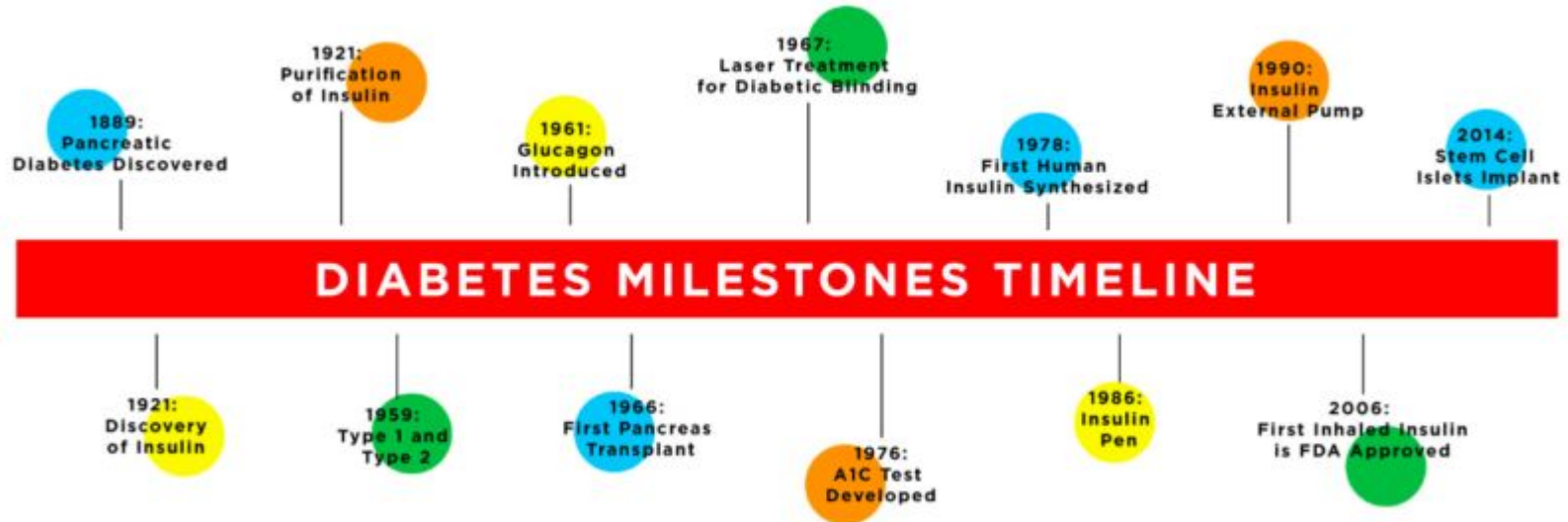


Lesson Activity

Read about the history of diabetes treatments [here](#) and use the information to construct a timeline of the most important events.

Lesson Activity - Answer

Read about the history of diabetes treatments [here](#) and use the information to construct a timeline of the most important events.





Practice

Use your completed timeline to answer the questions below:

1. How was diabetes diagnosed in the 1700s?
2. How was diabetes treated up until the late 1800s?
3. What was discovered in the 1920s that changed the treatment for diabetes?
4. Why was 1978 such an important year for diabetes research?
5. The 1990s saw the incorporation of what technology?
6. What do modern treatment options include?
7. What does the future of diabetes treatment look like?



Practice - **Answers**

Use your completed timeline to answer the questions below:

1. Urine samples were collected and tested for glucose
2. Diet interventions and exercise
3. The hormone insulin
4. Insulin was synthesized in a lab for the first time
5. External insulin pumps
6. Non-insulin medications
7. Immunotherapy and artificial pancreases



Additional Practice/Resources

1. Check your understanding by reviewing with these [flashcards](#).
2. What do you believe will be the future of diabetes treatment? Research some of the current strategies being developed and create a top 3 list of what you believe will be the most promising.
3. Learn about a potential new non-invasive way to monitor diabetes by reading this [article](#).
4. While these interventions are being developed, we must still rely on the production of insulin. This will be our focus for the week; *how do we make insulin in a laboratory?*