

The Google and Diabetes Connection



Technology platform giant **GOOGLE**, via their Life Sciences division, is using their expertise in electronic miniaturization along with their data collecting/ sharing abilities to team up with Dexcom, makers of a popular Continuous Glucose Monitoring Sensor shown above (CGMS) to make much smaller continuous monitoring device that might be as small as a dime and worn like a bandage like patch. The data collected will be transmitted to a smartphone. The data can undergo analytics to help direct therapy, not only for the individual, but also due to large data collection, might help with care population based.

Google is also working with pharmaceutical company Novartis on the **Google Contact Lens** that obtains glucose readings through your tears. They have already received the patent on this and it's in the works.



Why is Google in on the **diabetes** monitoring game (besides it being an estimated 17 billion dollar industry)? For one thing,

currently the Dexcom as well as the Minimed/Medtronic pump with continuous glucose sensor have iPhone applications available. Though Minimed is working on getting their app on Android, Google being in on it “ground floor” obviously will help promote Android and the Google brand.

Source: Google Developing Bandage Sized Glucose Monitor

Let's Talk about Lipohypertrophy and Injecting Insulin



Injecting Insulin

Do you inject insulin? Repeatedly using the same area to inject can lead to **Lipohypertrophy** which is an accumulation of fatty deposits under the skin. This is not just a cosmetic issue. Lipohypertrophy can lead to poor and inconsistent insulin absorption and wreak havoc on your blood sugar control. It is estimated that 20 to 40% of people with **Type 1 diabetes** and 4% with **Type 2 diabetes** develop lipohypertrophy.

Please read this article on the problem of “Lipohypertrophy”

from the British Medical Journal: Poor Glycaemic control caused by Insulin Induced Lipohypertrophy

Chowdhury TA, Escudier V. Poor glycaemic control caused by insulin induced lipohypertrophy. BMJ : British Medical Journal. 2003;327(7411):383-384.