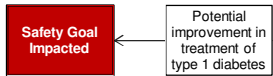
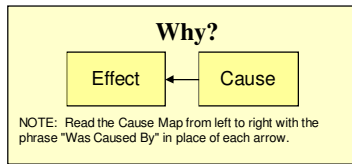


# "Artificial Pancreas" May Dramatically Improve Management of Type 1 Diabetes

Copyright ThinkReliability 2014

As many as 3 million Americans have type 1 diabetes and for many managing the autoimmune disease requires constant vigilance. Patients have to carefully monitor what they eat and their blood sugar levels, often pricking their fingers and injecting insulin multiple times a day. The number of people diagnosed with type 1 diabetes has been increasing, but there is some good news. Although there is no cure for type 1 diabetes, a new device, an artificial pancreas, may make managing the disease significantly simpler.

## Intermediate Level Cause Map



The artificial pancreas is still in the development stage and needs additional testing and modification prior to becoming widely available for patient use. The first test was done using about 50 patients who wore the new device for 5 days. The results were very promising, but more testing will need to be done. During the 5-day test, the patients had lower blood sugar levels overall and the device simplified management of the disease. The next step is to have patients use the device for a longer time period. It's essential to ensure that the device is very robust, because the consequences can be dire if it fails.

