



Mimosa Diagnostics has created a radical technological solution for diabetics using near-infrared light systems to see beneath the surface of the skin. Mimosa is working to put this technology into the hands of patients to encourage a culture of preventative medicine to save limbs and lives.

Complications from diabetes are serious and freighting conditions that diabetics must contend with every day. These complications present very real health risks as extreme as amputation and death. It is these risks that are Mimosa Diagnostics' mission to alleviate.

Diabetes can cause nerve damage and poor blood flow in the legs and feet. As a result, diabetics are less likely to feel a foot injury such as a small cut or blister. Unnoticed and untreated, these small injuries can quickly become infected leading to the serious condition of foot ulcers. These foot ulcers can quickly become dangerous and life-threatening.

The best treatment for foot ulcers is prevention. And the key to prevention is putting the *tools* of prevention into the hands of patients.

This is the goal of Mimosa Diagnostics - creating technology to empower patients to make a change from a culture of reactionary medicine to a culture of prevention.

The Statistics:

- 3 million Canadians have diabetes
- Diabetics are twenty-three percent more likely than the general population to have a lower limb amputation
- Of those who have an amputation, thirty percent will die within one year
- After five years, the mortality rates jumps to seventy percent.



Mimosa Diagnostic System

The Mimosa technology clips onto a smartphone, utilizing the computing power we carry around in our pockets. Mimosa employs a camera and non-invasive near-infrared light sources to detect things beneath the surface of the skin that are not visible to the naked eye. Bio-markers like blood flow and oxygenation, important indicators of tissue injury and the precursors of foot ulcers are detected by Mimosa.

Patients employ the Mimosa system to take pictures of and beneath the skin. This data is collected via e-Mimo, Mimosa's e-mobile health component, and transmitted to e-Mimo's secure cloud. From there, the team processes the data to monitor patients. Ultimately, the Mimosa team will be able to triage hundreds of patients a day, improving quality of life and preventing the dangerous complications of diabetes.
