



## PHYTOSYMBIOTICS FOR BETTER BLOOD GLUCOSE METABOLISM

*Phytosymbiotics* are unique formulations of *prebiotics*, *probiotics* and plants, co-fermented in a proprietary process, to produce 100% nature health supplements for people with condition-specific ailments such as diabetes, gout and hypercholesterolemia.

Research and development of *phytosymbiotics* has been ongoing for over 2 decades, and has found them to be effective in controlling blood glucose, uric acid and lipids in the body.

More specifically, in the area of regulation of blood glucose metabolism, it has been discovered that significant beneficial effects can be derived using *phytosymbiotics* formulated with:

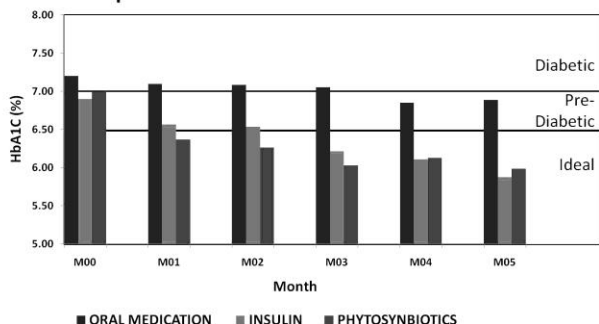
1. *Probiotics* consisting of *Lactic acid bacteria*;
2. *Prebiotics* or non-digestible oligosaccharides
3. produced naturally by the *probiotics*;
4. Plants with glucose lowering properties such as bitter melon (*Momordica charantia*) and horseradish tree (*Moringa oleifera*).

The *phytosymbiotics* for glucose regulation (*PSB-G*), have been thoroughly studied to determine their effectiveness. In a human clinical trial conducted in a hospital setting with 166 diabetic patients, *PSB-G* outperformed oral medication and is found to be as effective as insulin in regulating blood glucose in the body. Moreover, *PSB-G* was also able to reduce bad cholesterol and augment good cholesterol levels in these patients, while restoring the liver to a healthy state<sup>1</sup>.

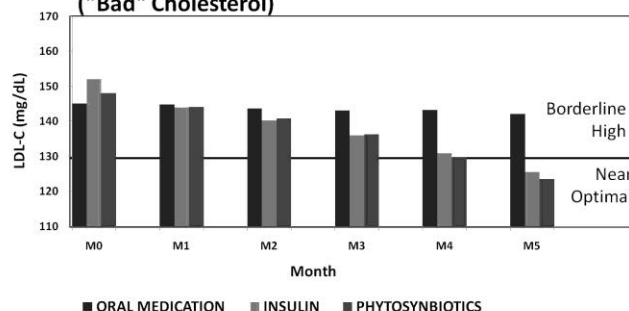
However, unlike insulin which needs to be injected subcutaneously, *PSB-G* is orally administered, hence significantly improving compliance and drastically removing the trauma linked to the administration of insulin.

The R&D undertaken in the development of *phytosymbiotics* has been generously supported by Spring, the government agency for enterprise development in Singapore.

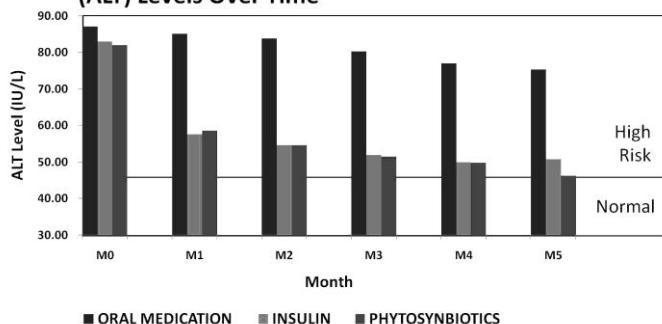
Comparison of HbA1C Levels Over Time



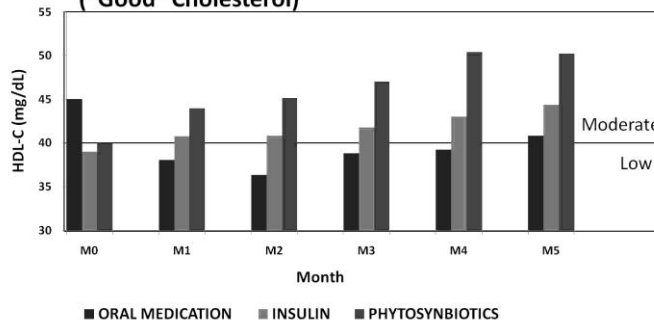
Comparison of LDL-C Levels Over Time ("Bad" Cholesterol)



Comparison of Alanine Aminotransferase (ALT) Levels Over Time



Comparison of HDL-C Levels Over Time ("Good" Cholesterol)



<sup>1</sup>Study conducted in a hospital setting on 166 diabetic patient volunteers (7% HbA1C) divided into 3 groups: ORAL MEDICATION group receiving oral non-insulin drugs, INSULIN group receiving subcutaneous insulin injection and PHYTOSYMBIOTICS Group receiving PSB-G. Patients were monitored monthly over a period of 5 months.