

Ladies and Gentlemen,

**We are a Polish innovation and production company that has been involved in the prevention and treatment of diabetic complications.** Diabetes is a group of metabolic diseases, currently called the first non-infectious epidemic in the world. The number of cases is growing rapidly. In 1980 in the world there were 153 million diabetics. It is estimated that currently 415 million sufferers are alive for diabetes, almost half of which is undiagnosed. It is predicted that in 2030 there would be 642 million diabetics on the planet. 12% global health spending seems to fight diabetes (\$ 673 billion)!

**Therefore, above-mentioned statistic we have to established a Project of Diabetics Support.**

**Diabetic foot syndrome** - the most common cause of non-traumatic loss of lower limbs; it is characterized by the occurrence of infections, ulcers (wounds), destruction of deep tissues with the presence of neuropathy features and ischemia with different levels of advancement. Polish statistics show that after amputation of feet or legs:

- after 1 month, 10% patients die,
- after 2 years, 50% die,
- after 5 years, 80% of diabetics whose foot or leg were amputated die.

**Multifactorial minichambers** - a device in which the conditions for accelerated healing through disinfection arise and local stimulation of damaged limb tissues. This is small dimension and simplicity to use. Patients can use it at home, without having to engage in expensive medical art. **Minichambers works are advanced.** **At this time we are looking for the possibility of find money for clinical trials.**



**multifactorial minichamber for treatment a hard healing wounds legs**

**Diabetic nephropathy** – kidney failure caused by diabetes is a big problem.. The diabetic hemodialysis process is expensive. Therefore, we have created a system for cleaning, disinfecting and rinsing blood filters. That the cost of each hemodialysis unit decreased by 40%. **The above system has already been put into production and exploitation in Polish hemodialysis station.** **This system saving for every medium hemodialysis station is about \$ 45.000!** **This would create the possibility of hemodialysis of more people suffering from diabetes.**



**Support for the cleaning of diabetics legs** - FOOTSTER is an automatic, non-contact handling device thorough disinfection of the feet without having to bend down. The device is very easy to use. After inserting the foot into the chamber, the dosing pump automatically starts spraying the disinfectant on the foot. Therefore, patients have not to ask for help of other people. This makes it easier for the diabetic to keep the stop at an appropriate level of hygiene and protects against complications of diabetes.

**Product is available in Polish commerce.**



**Hard healing wounds** - are one of the most common complications of diabetes. Consequently, P.I.W. "IMPULS" developed innovative dressings and hydrogel supporting quick wound healing. **Made a prototype batch of dressing. At this time, we are interested in acquiring counterparts.**



**Dermatological problems of diabetics** - diabetics skin could be excessively dry and susceptible to long-healing injury. Fluctuations in the level of sugar facilitate the development of microbes of causing fungal infections. We have produced the series Cosmetics dedicated for skin care of diabetics, as well as specialized ointments and creams to accelerate wound healing.



**Natural methods for lowering blood sugar levels** – as a result of our own biological tests we have identified a group of plants whose extracts have properties that lower blood sugar and hypertension. At this time, we are looking for sources of production financing.



## DIABETICS SUPPORT CENTRE

P.I.W. „IMPULS” propose to create a Diabetes Support Centre in order to improving the quality of life, prevention and rehabilitation of patients with diabetes based on comprehensive health care. This place will gather doctors specialists, physiotherapists, dietitians, and also medical equipment, dressing, dietary supplements and cosmetics and cleaning products for diabetics produced by P.I.W.„IMPULS”.

We already developed plans and necessary procedures. Centres Support of Diabetics they may arise in Poland and in the areas of the Gulf States.

We are looking for partners with whom we could create Centers of Support for the treatment of patients with diabetes and the possibility of financing large-scale production of the aforementioned equipment and medical apparatus

