

Matrix Rhythmus Therapy® in the Management of Diabetic Complications - A Pilot Study

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Introduction: According to WHO people suffering from Diabetes in the year 2000 was 31,705,000 and in the year 2030, it will be 79,441,000.

Diabetes is a chronic disease, which occurs when the pancreas does not produce enough insulin, or when the body cannot effectively use the insulin it produces. Without enough insulin in the body, glucose accumulates in the blood, where it is of little use. Even though there is plenty of glucose around it, it can't get into the cells to produce ATP. To fulfill these requirements the body starts to liquidate fat deposits for energy production which in turn produces acidic side product like ketones resulting in acidosis. Acidosis sensitizes the pain perception and the muscle disposition to contract. Thus compression of the venules and the arterioles leads to insufficient oxygen supply and reduced ATP formation causing hypoxia. As a result of hypoxia and energy deficit on the cellular level the muscle fiber stay contracted resulting in various complications like stiffness of muscles, reduction in mobility, non healing wounds, loss of sensation, burning sensation in the extremities, hyper pigmentation of skin, edema, lack of stamina, fatigue etc.

Criteria for selection: Patients with Type II Diabetes Mellitus and non-responding to conventional physiotherapy.

Material and Methods: 1) 20 patients selected were subjected to Matrix Rhythmus Therapy invented by Dr. U G Randoll.

- 2) The patients were clinically assessed and underwent subjective and objective testing based on the VAS scale for pain, Goniometric analysis for Range of Motion, hyper pigmentation of skin, edema, Numbness and tingling of extremities, burning sensation in the extremities, dysesthesia.
- 3) On the basis of assessment and clinical findings on 20 patients, they were further categorized as 12 patients suffering from frozen shoulder, 5 patients suffering from diabetic neuropathy and 3 patients suffering from diabetic non healing wound.
- 4) A specially constructed resonator of Matrix Rhythm Therapy coherently delivers mechanical magnetic oscillations in the physiological frequencies (8-12 Hz) to the skeleton musculature and the nervous system which normalizes the cellular rhythm as well as the nutrient flux density in the extra cellular matrix. Application of Matrix Rhythmus Therapy once in a week, in individuals with diabetes allows the cell metabolism of the tissue to be reactivated with depth- effective rhythmical micro extensions that enhances the metabolic processes resulting in improved circulation, oxygen supply, ATP production and normalizing the blood pH. As a result of this at the cellular level, there is relaxation of the muscle fibers resulting in relieving the individuals from the complications due to diabetes.
- 5) In all the cases treatment was done starting with the cervical spine covering the entire spine followed by affected area.
- 6) Video and still photographic analysis was done before and after every session that has recorded functional outcome after every session.



The Matrixmobil®

Result And Conclusion :

- Significant reduction in pain was observed in all the cases after single session of 1 hour. Mean reading on the verbal analogue scale from 9 to 3.



Improved ROM in frozen shoulder after single session of 1 hour once weekly for 3 consecutive weeks.



Improvement in skin colouration, edema, burning sensation in extremities, Dysesthesia after 3 sessions of 1 hour each once a week.



Healing of wound initiated after 1st session complete healing of the wound after 5 sessions of 1 hour each once a week.

Hence, the study suggests that with the improvement in the microcirculation which is otherwise impaired in diabetic patients, Matrix Rhythmus Therapy is effective in the management of Diabetic complications.