



SCIENCE MOTOR CENTER AND FUNCTIONAL REHABILITATION

EVALUATION TEST RESULTS OF “INFRATHERM-FABRIC®”

produced and designed by BIODOMUS

The Osteoarthritis is a degenerative disease affecting the joints and it involves about the 10% of the general adult population and the 50% of people who are over 60 years old. It is one of the most common causes of painful disorders and it affects the most submitted joints to wearing, especially those subjected to the load of body weight, such as the lumbar spine and the knees. The affected joint shows characteristic changes with cartilage thinning, fissuration, forming of marginal osteophytes and zones of sub-chondral osteosclerosis in the loading areas.

The aim of this study is to know the product value and its beneficial properties, conducting an objective valuation of the effectiveness in reducing pain, the swelling status and the saving in the analgesics use through the bio ceramic fiber devices utilization (textile mixture with pure wool). The bio ceramic active crystals (FAR INFRA RED RAY) contained inside the fiber, when coming into contact with the skin, they give body heat and bring many beneficial and therapeutic effects. These effects improve the cellular metabolism, the blood microcirculation, the drainage of fluids and the skin elasticity.

This tissue incorporates the best features of each type of wool; it is extremely soft to the touch and it is also comfortable, ensuring isothermal, anti-decubitus and micro-massage effects.

So we decided to carry out self-evaluating and comparative tests on 25 patients aged 50-85 mainly having musculoskeletal pathologies. Then, based on results, we tried to understand the effectiveness and validity of the product's beneficial properties.

To date, the results obtained demonstrate that these devices' use of these devices, during night hours, highlights important beneficial effects on pain, on symptomatology and on the patient lifestyle