PNEUMANUS, a new device in the treatment of Dupuytren’s contractures

Andreas Felix Klenner (St. Barbara Clinics Hamm, Germany), Krisztina Klenner (Mariannen Hospital Werl, Germany)

Abstract:
If severe Dupuytren’s disease is present, complications in operative treatment are increasing in relation to the level of contracture. Other pathological conditions exist, with a similar presentation of contracture of fingers. Preoperative treatment for all those conditions, aiming to minimize extension deficit is desirable.

In this concern, treatment is divided in invasive and non-invasive methods. Invasive treatment can be associated with severe complications and needs good compliance. Only few technical devices and solutions are described in the literature, most of them exist only at one hospital and are not available for the European or global market. Hence we developed a non-invasive, pneumatic splint (PNEUMANUS), which addresses severe contractures of the fingers and is obtainable for everybody.

PNEUMANUS is a new device, available on the market especially for the preoperative treatment of Dupuytren’s and other similar conditions described, avoiding the disadvantages of invasive solutions. It’s simple to use and adaptive to even severe contractures, where other splints fail. The acting forces can be fine-tuned at any time and the splint therefore fulfills the need to act smoothly on the tissues at cellular level. It provides patients with a magnitude of comfort and is highly accepted.

Principle of 3-Point Force, used in PNEUMANUS

Appearance of PNEUMANUS®1.2, with lever for the variable angle splint

Literature:

more info at https://pneumanus.com