

## **EFFICACY OF INJECTIONS MD-HIP AND MD-MATRIX IN TREATMENT OF COXARTHROSIS. – CLINICAL AND ULTRASONOGRAPHIC EVALUATION**

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**Experimental sites:** Serdika Hospital (Sofia); Deva Maria Hospital (Bourgas – Bulgaria).

**Pathologies considered:** x-Ray stage I-II-III hip osteoarthritis according to Kellgren-Lawrence.

### **Outcomes:**

- 1)evaluation of pain at rest and when moving (VAS 0-10);
- 2)evaluation of Lequesne Algofunctional Index (hip) before and after treatment;
- 3)patient's evaluation after treatment;
- 4)evaluation of joint edema before and after treatment;
- 5)medical examination at day 60 and 90 after the beginning of treatment.

**Inclusion/exclusion criteria:** stated.

**Patients enrolled:** 16 (7 M; 9 F; aged 33-89; average age 65.5 years).

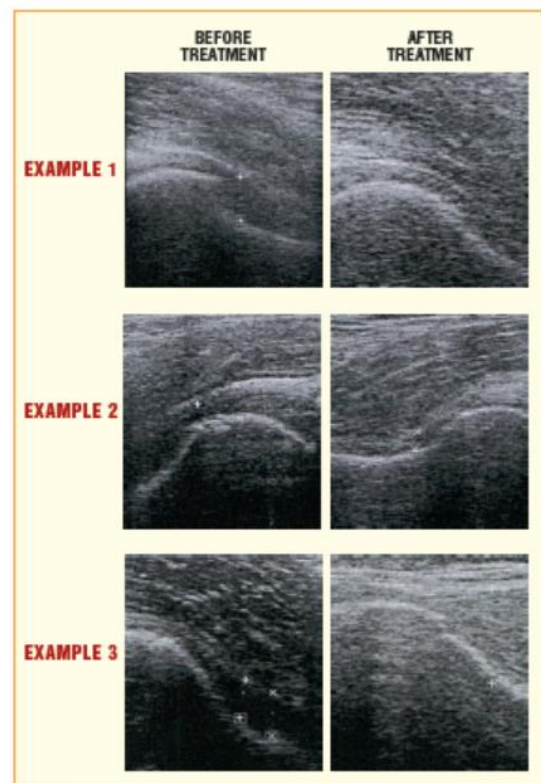
**Treatment:** MD-Hip, 1 ampoule + MD-Matrix, 1 ampoule: 2 intra-articular injections according to Scott-Pollock technique for 2 consecutive weeks + 1 intra-articular injection for the following 6 weeks (total 10 treatments during 2 months).

### **Results**

- 1)Statistically significant reduction of pain at rest (VAS from 2.43 before treatment to 1.31 at day 60, to 1.62 at day 90).
- 2)Statistically significant reduction of pain when moving (VAS from 3.43 before treatment to 2.18 at day 60, to 2.37 at day 90).
- 3)Statistically significant improvement of the single items and of the values expressed by Lequesne Algofunctional Index in general (hip); from 10.47 before treatment to 5.65 at day 60, to 5.78 at day 90.
- 4)Assessment of joint effusion: at day 90 after treatment start 12 patients out of 16 (75%) did not experience any effusion (examples in TAB. 14); 3 patients = effusion reduction; 1 patient = unchanged effusion.
- 5)Patient's assessment: efficacy in 87.5% of cases.

### **– Author's conclusions:**

- 1)The Collagen Medical Devices MD-Hip + MD-Matrix showed to be clinically effective against pain due to X-Ray stage I-III hip osteoarthritis according to Kellgren-Lawrence.
- 2)The efficacy is long-lasting; it lasts over 3 months, i.e. for a longer period than that of the drugs that are usually used to cure the same disease.
- 3)The treatment leads to a general improvement of daily activities.
- 4)Stage III-IV hip osteoarthritis cannot be cured with Collagen Medical Devices, as the effect is poor and short-lasting.
- 5)The ultrasound examination showed a long-lasting effect on the resorption of the effusion, which continues 3 months after the last injection.
- 6)The patients have assessed the therapeutic results as very good + excellent in more than 80% of cases. This percentage is the same as for doctors.
- 7)The Collagen Medical Devices used in this clinical assessment did not show any negative side effect, and have an excellent safety profile.



TAB. 14