

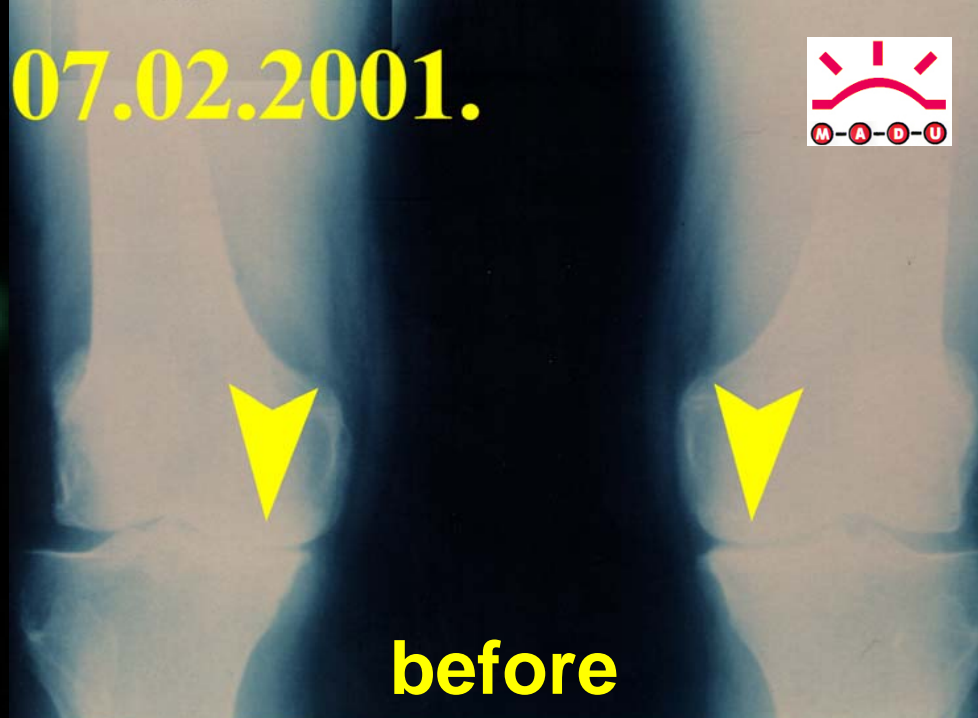


TREATMENT OF GONARTHROSIS AND COXARTHROSIS WITH MADU METHOD

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Objectives

MADU medical method for tissue regeneration, developed and patented by doctor Dusanka Mandic, is based on utilization of magnetic deep unipolar field which is created by magnetic MADU strips.

MADU method assumes the application of number of different medical devices. The duration of treatment, before the application of MADU strips, is about 2 to 3 hours.

Method

MADU strips, 10 to 15 times weaker in strength (mT) than the WHO tested and approved magnetic field levels, were applied and observed in patients over the period from 3 months to 4.5 years. Some patients were observed during the period of up to 10 years.



“MADU” STRIP

- ❖ **MEDICAL DEVICE**
- ❖ **INTERNATIONAL PATENT PROTECTED IN 107 COUNTRIES.**
- ❖ **WIPO UN QUALIFIES “MADU” STRIP AS:**

Novelty (N)

Inventive step (IS)

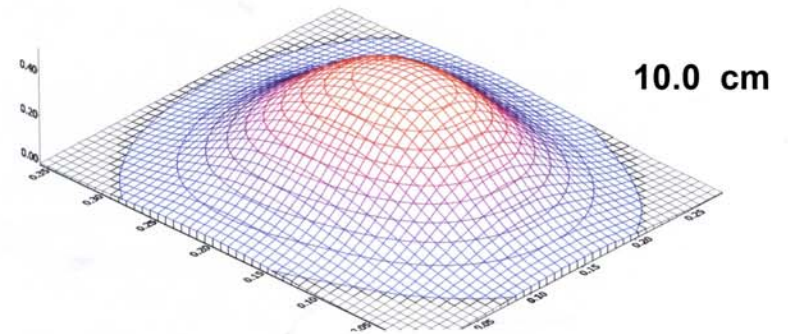
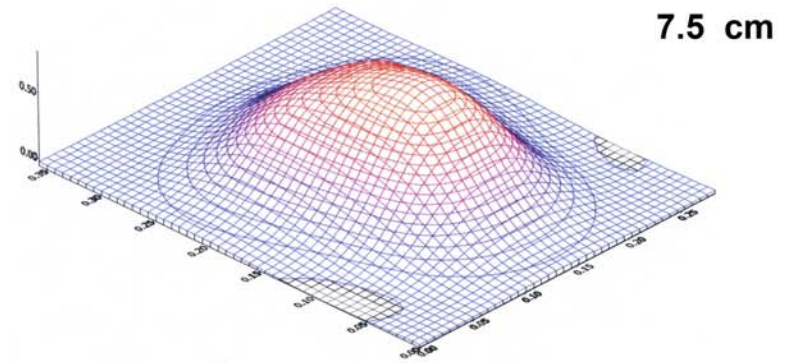
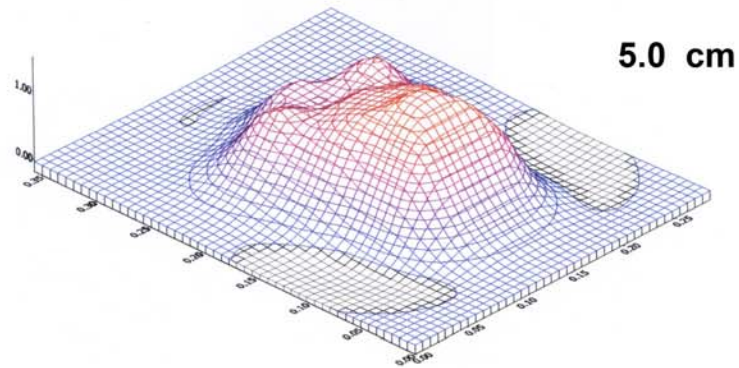
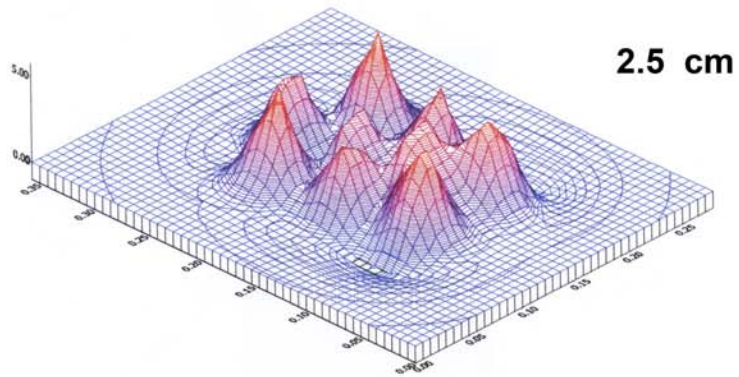
Industrial applicability (IA)





Measurement

(deep influence levels 2.5 cm, 5 cm, 7.5 cm, 10 cm)





“MADU” principles and mechanism

BIOPHYSICAL EFFECTS AT THE CELLULAR LEVEL

- **THE IMPACT ON WATER AND ITS CLUSTER STRUCTURE**
- **FERRO AND PARAMAGNETICS**
- **PENS IONS CHANNELS**

BIOCHEMICAL EFFECTS

- **MEMBRANE POTENTIALS CHANGE**
- **IMPROVES modulation of the potential of the K/Na(potassium/sodium) PUMP**
- **SYNCHRONIZATION OF ENDOGEN OSCILLATIONS OF Ca ions**
- **ENZYMES ACTIVATION, ESPECIALLY OF METALLOENZYMES**
- **ATP PRODUCTION IMPROVEMENT**

BIOELECTRICAL EFFECTS

- **BIO - CONDUCTIVITY INCREASE**
- **THE CELL'S MEMBRANE IS EQUIVALENT TO ELECTRICAL BATTERY**
- **DUE TO DIFFUSIBLE AND OTHER IONS CONCENTRATION**



Therapeutic effects

REDUCES PAIN

analgesic, hypoesthetic, morphinemimetic effects

REDUCES INFLAMMATION

anti - inflammation and ACTH - like effects

REDUCES SWELLING

anti-oedematous effect, dipoles settlement

TISSUES OXYGENATION AND NOURISHMENT

**vasodilatation, spasmolytic effect, microcirculation,
metabolism activation and acidity reduced**



Therapeutic effects

VARIOUS TISSUES REGENERATION

alkaline reaction improves,
regeneration and angiogenesis,
Ca⁺⁺ ions built in and favours the ripe cells,
opens gap junction channels

ALL LIQUIDS VISCOSITY IMPROVEMENT

better fluency
reduced angle between atoms in water molecules
(104.5 to 85 degrees)
cluster conformational structure changes

ALL OTHER EFFECTS ARE STILL IN THE PHASE OF RESEARCH

metaplasia from the connective tissue....



Material and Methods

The group of 821 patients who suffered from coxarthrosis and gonarthrosis and were treated with MADU method. After that MADU strips were worn from six months to four years all patients were controlled by specialists and x-rays, CT or NMR every six months.

Results

There was a notable improvement in pain score in treated patients ($p < 0,00009$) in 566 of 821 treated patients (69%) renewal of the joint structure with formation of new joint space was noted on x-ray examinations.

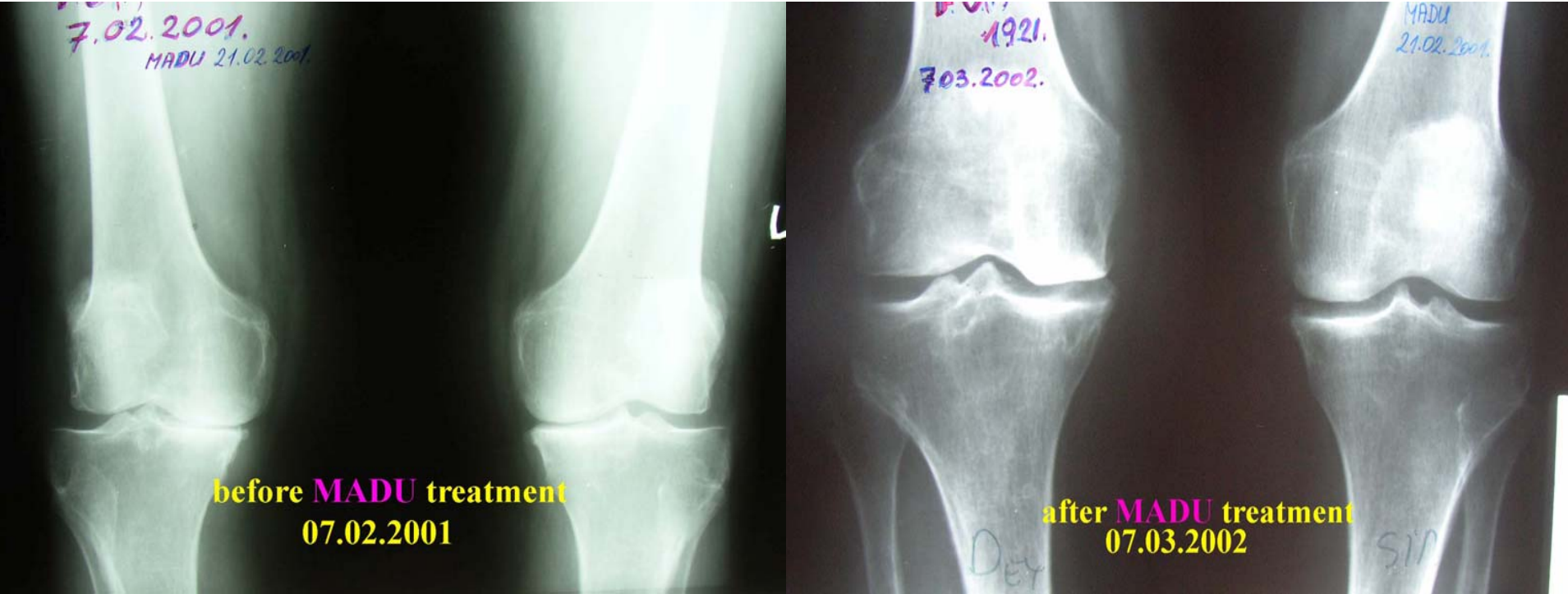


the intention of treatment is to :

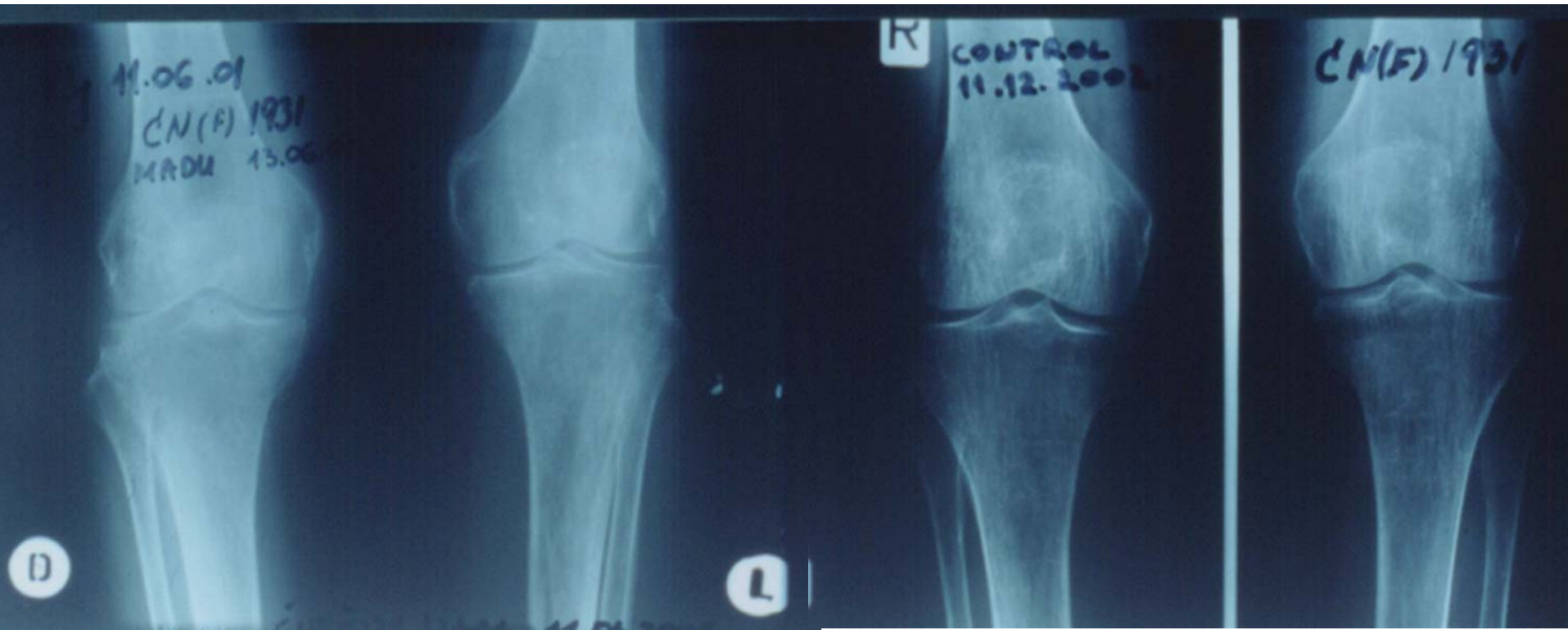
- **Reduce pain**
- **Reduce the period of physical rehabilitation**
- **Provide for methabolic conditions which will reduce acidity of the area treated**
- **Enhance regenerative processes**
- **Promote dialogue and research among experienced professionals and then to jointly improve the treatment.**
- **Present the new possibilites of treatment with MADU (ICD-10, M-00-M99)**
- **Reduce economical investment**



gonarthrosis



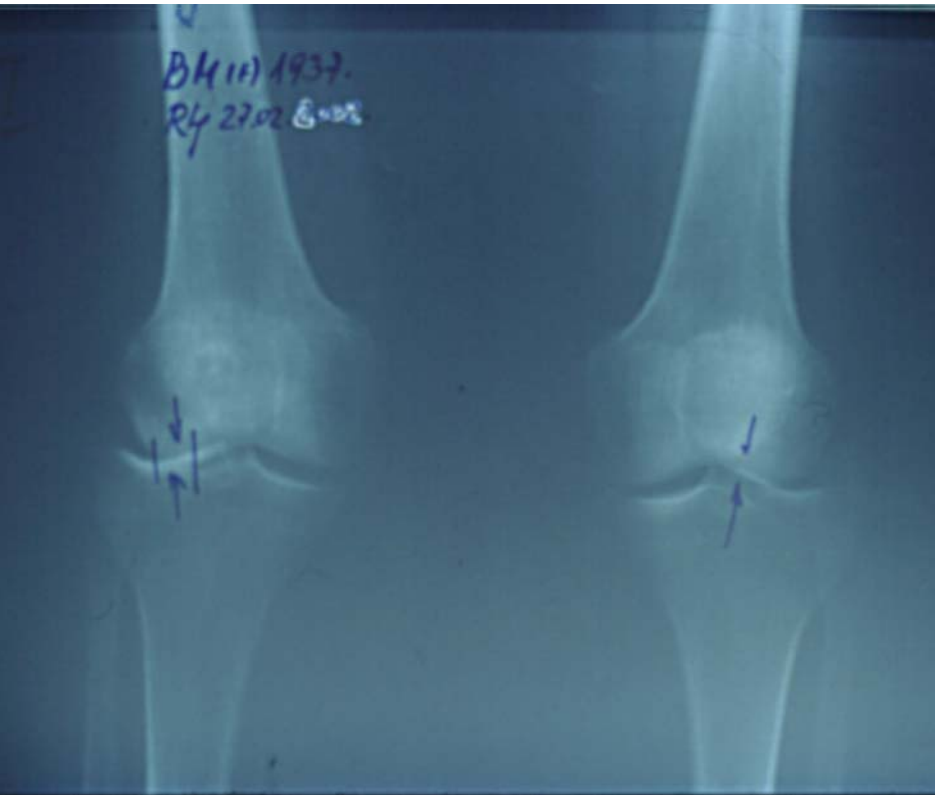
FO (f), 1921.



before MADU 11.06.2001.

after MADU 11.12.2002.

CN (f), 1931.



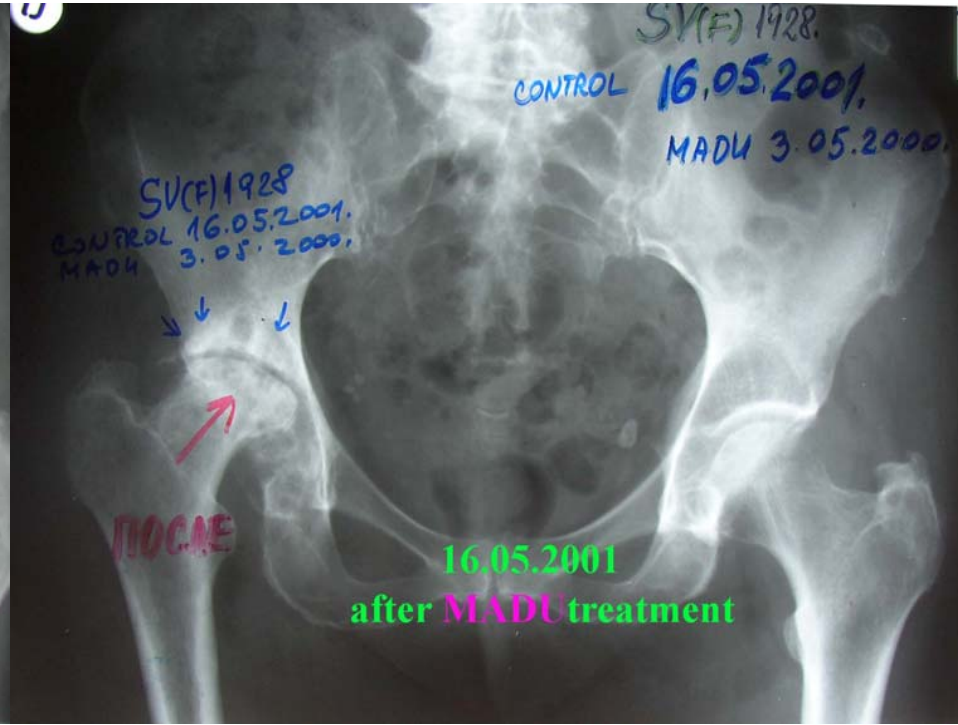
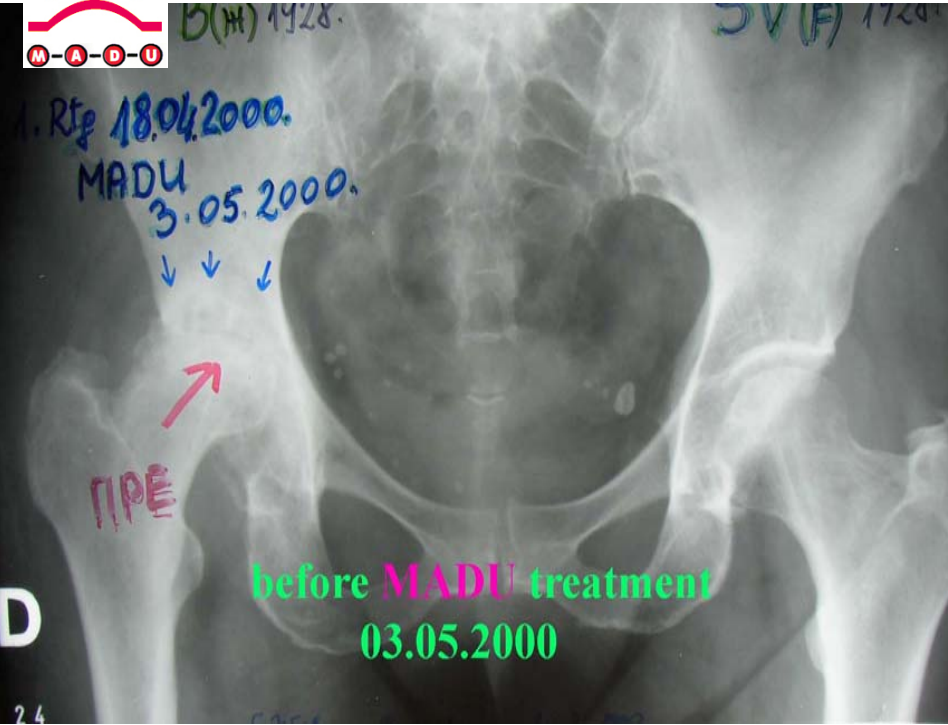
before MADU 27.02.2002.

after MADU 30.10.2002.

BM (f), 1937.



coxarthrosis

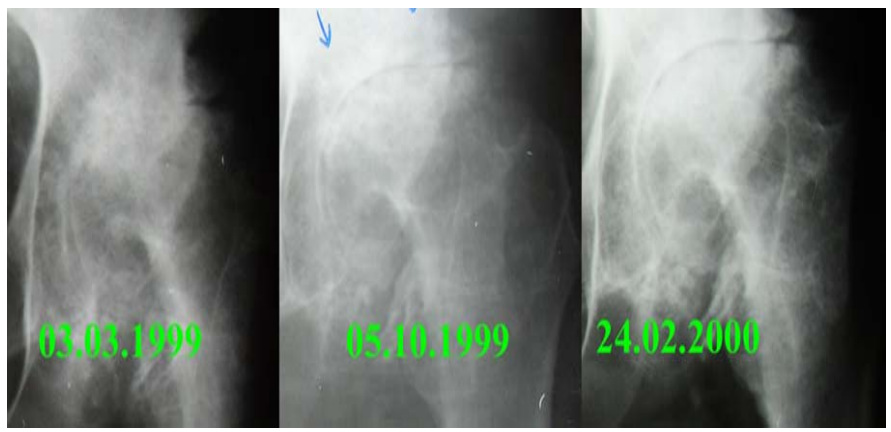


SV (f), 1928.

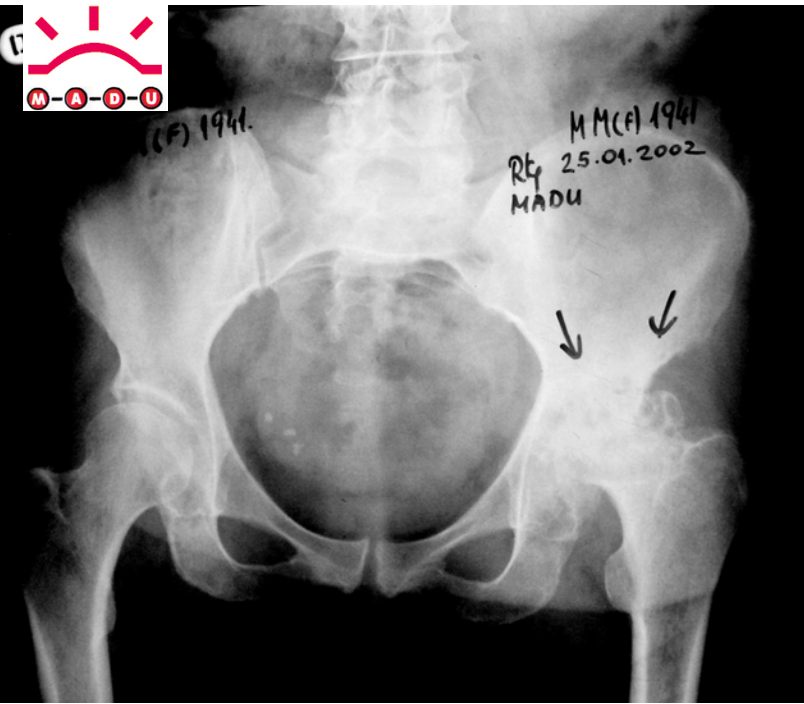
details



details



RM (m), 1934.



before MADU 25.01.2002.



after MADU 05.10.2006.



MM (f), 1941.



before MADU 13.10.2005.



after MADU 03.04.2007.

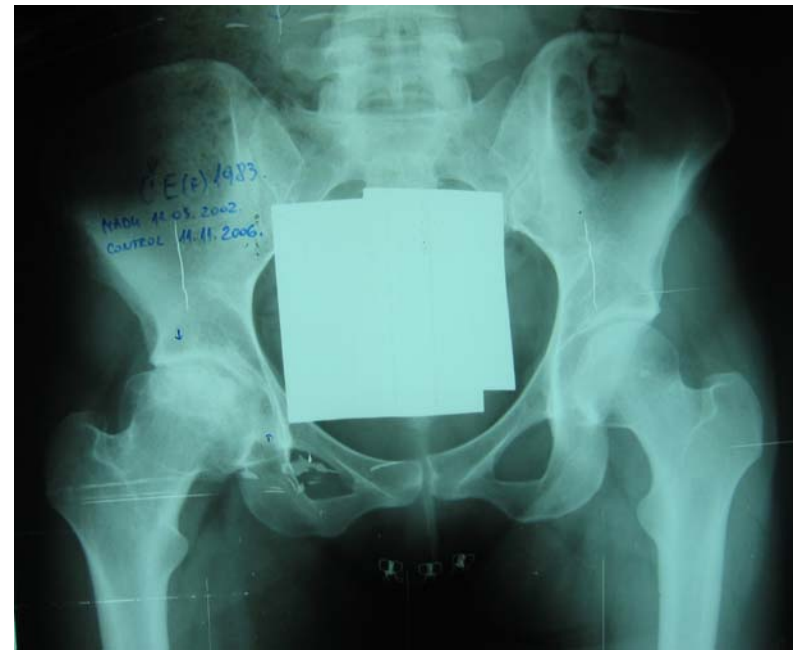
VB (f), 1938.



aseptic necrosis of the hip

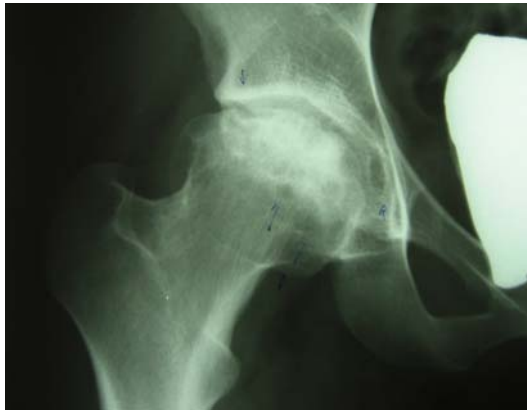


before MADU 11.05.2002.



after MADU 11.11.2006.

CE (f) 1983.





necrosis aseptica iatrogenes bill. (th. corticosteroides)



before MADU 18.03.2008.

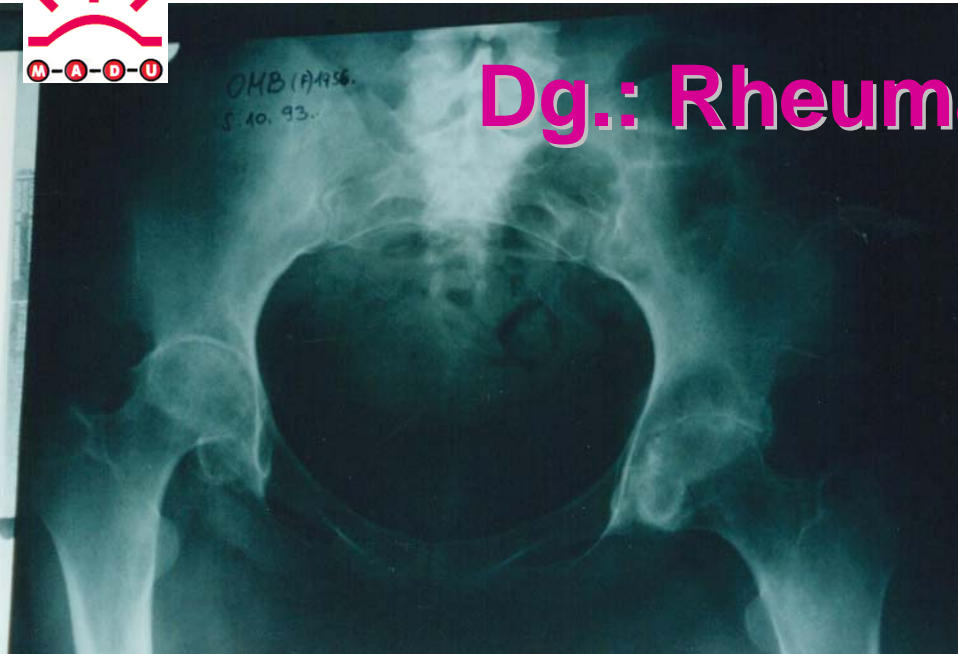


after MADU 11.09.2008.

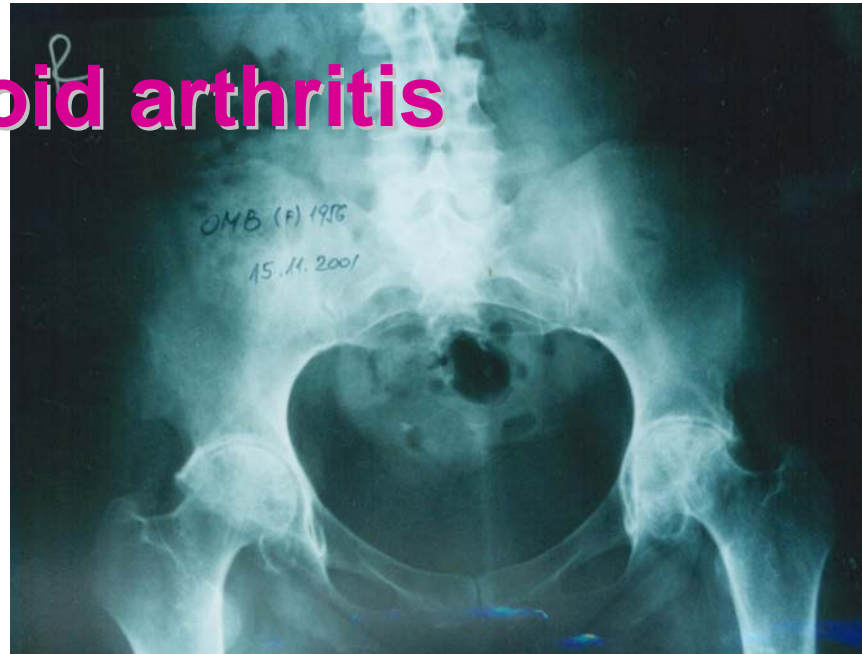
GR (m) 1971.



Dg.: Rheumatoid arthritis



before MADU 05.10.1993.



after MADU 15.11.2001.



before MADU
07.03.1999.

OMB (f), 1956.



after MADU
02.11.1999.





the application of MADU strips





Physiopatological Mechanisms

Magnetized water is important for cartilage

In cartilage tissue 65-80% of its weight is water.

In synovial liquid of joints positive effects of magnetism on water and bio molecules are significant.

The cartilage is self fed by diffusion from synovial liquid and surrounding tissue to make good for its own regenerative process.



Essential constituents of cartilage matrix, in respect of water and biomolecules, are:

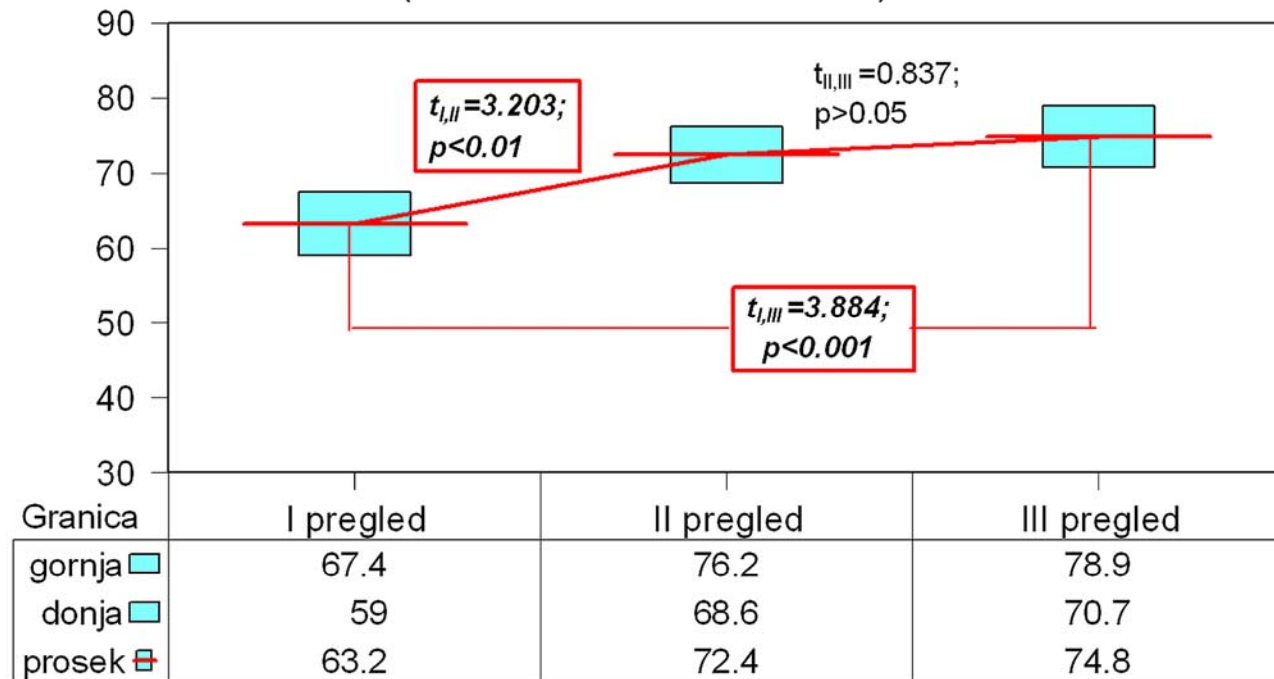
Proteoglicans of joint cartilage, i.e. macromolecules of the basic substance, composed from **glicosamineglicane** (hyalouronates, chondroitin sulphate, and keratin sulphate – Voet D., Voet J.G. 1995.) and **proteins** bound with covalent bond and responsible for **high water intake**. (Krane S. M., Neer R. M).

Hydrated cartilage molecule engages 1000 times the space of the dehydrated molecule (Voet D., Voet J.G. 1995.).

Results

most frequently treated patients with
coxarthrosis (ICD M16), statistically examined

Patients treated of osteoarthritis (n=566) according to the number of points achieved at the first, second and third examination
Interval of reliability for the probability of $p=0.95$
(six months intervals)



KEY: granica = border, gornja =upper, donja=lower, prosek= average,
I pregled=1st examination,II pregled= 2nd examination, III pregled = 3rd examination



Results:

The effectiveness was evaluated in 821 patients with subjective and objective health status (males, females) 100%.

Improvements were recorded in pain reduction, better motion and X-ray results in 566 (69%).



Conclusion

The our results point that MADU method may be usefull in treatment of gonarthrosis and coxarthrosis, helping in joint reparation.

The utilisation of this treatment may be further extended for treatment of different diseases of cartilage and bones.



The **side effects** in the case of patients with hyperthension in the first three days of application were noticed in 3% of patients, other effects were not noticed neither harmful effects.

Precautions are in the case of:

- pregnancy
- “pacemaker” (because it can influence the batteries)
- malignant diseases

until proved otherwise



MAgnetic **D**eep **U**nipolar oriented field applied as MADU strip with the guaranteed optimal magnetic field intensity lasting for 10 years, providing long lasting protective activity in the area of the diseased poor tissue nutrition. The initiation of regenerative processes is performed due to known pathophysiology mechanisms changing acid reaction into alkaline, providing regenerative processes.

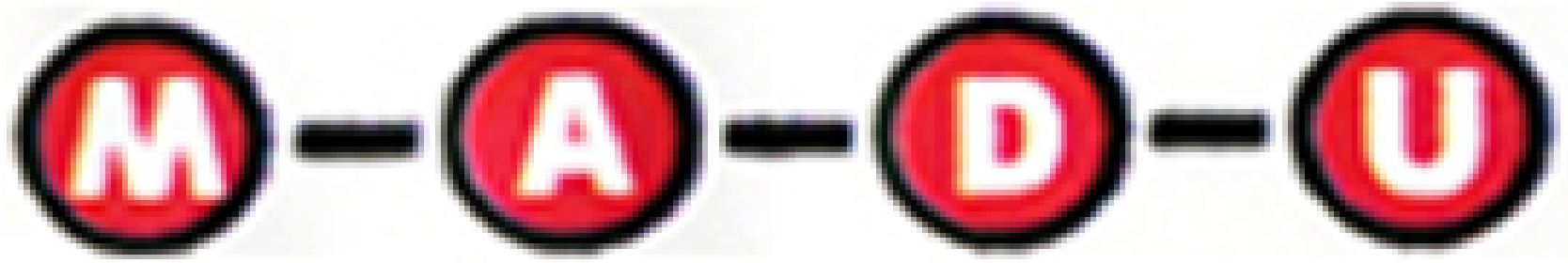
MADU environment friendly medical device and the **noninvasive** method is recommended as supplementary, with full respect of all the modern and scientific therapeutical methods.



MEDICINA DIVINA EST!



Thank You for the attention!





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