

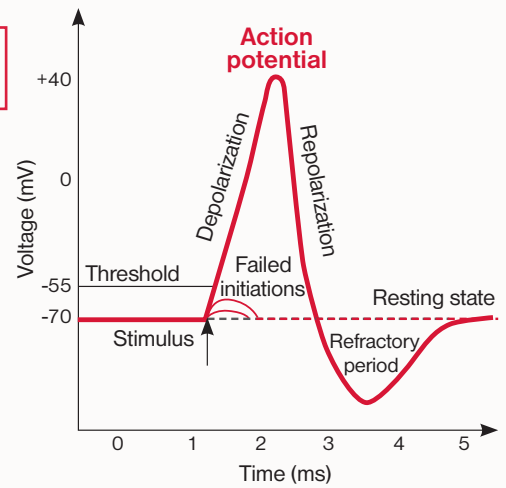
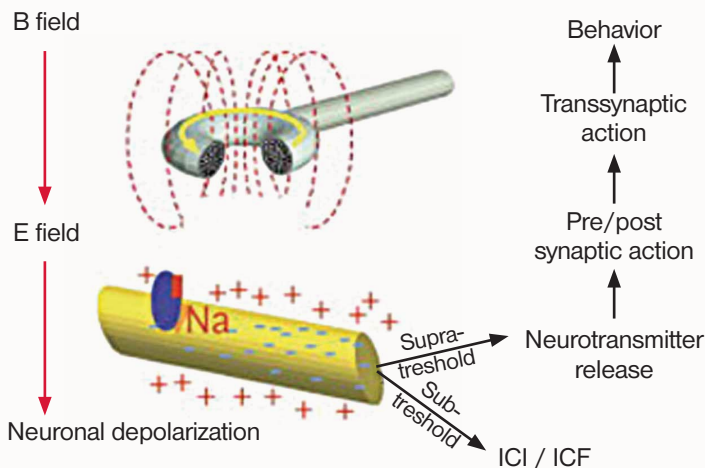
TESLA Care™

FUNCTIONAL
MAGNETIC
STIMULATION



REHABILITATION
UROGYNECOLOGY
SPORTS MEDICINE
NEUROPHYSIOTHERAPY

How does a magnetic field **activate** a muscle?



Rapid changes of magnetic field intensity induce an electrical current in the neuron. This phenomenon is called electromagnetic induction.

Once the current reaches a certain value, a so-called neuron action potential is achieved. This causes the neuron cell to depolarize, which eventually leads to a complete muscle contraction.

FMS handheld applicators

The device can be used in physiotherapy or rehabilitation. The appropriate areas for triggering muscle stimulation can be quickly located using the handheld FMS applicator. The FMS device delivers pulses of magnetic field which can activate even the weakened muscles and strengthens them. The FMS handheld applicators come in to different sizes.

Hands free application is achieved by attaching the FMS applicator on a special mechanical arm or fastening them to the body with rubber straps.

Chair for lumbar area

The treatment stimulates muscles and accelerates circulation without direct contact to the skin. Therapy procedure is simple and the patient does not require any spacial preparation.

During the therapy the patient simply sits in the chair. The exact area of stimulation of the lower back can be set by changing the position of the applicator in the chair backrest.

FMS AREAS OF USE

NEURO- PHYSIOTHERAPY



MUSCULOSKELETAL REHABILITATION



REHABILITATION OF **SPORTS** INJURIES



GERIATRIC

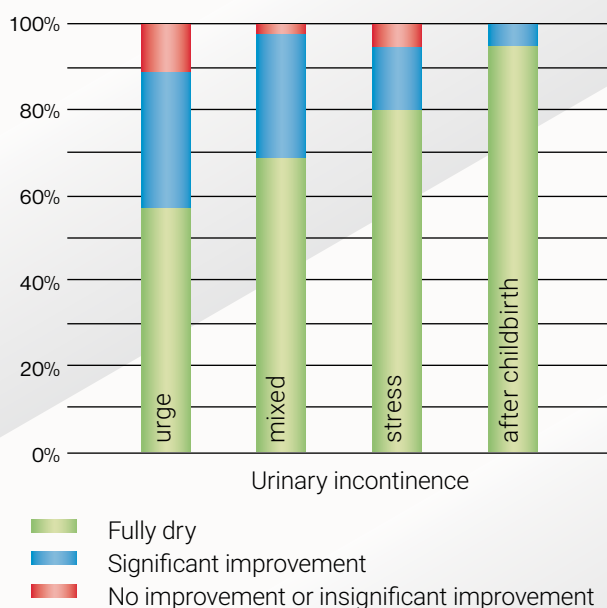


Chair for pelvic area

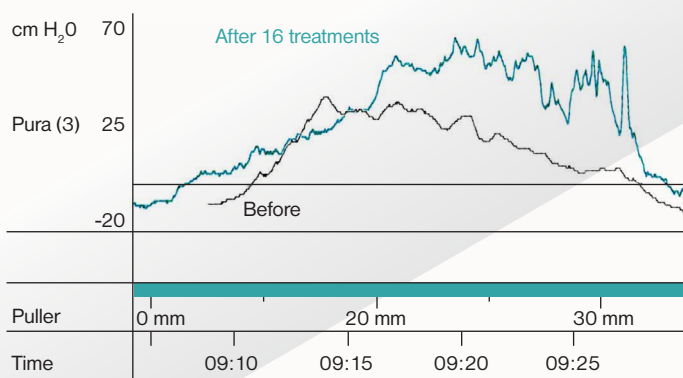
The TESLA Care device was developed for treating weakened pelvic floor muscles and urinary incontinence by using the special Functional Magnetic Stimulation (FMS) technology. The pulsed magnetic field generated by the device causes the muscles of the pelvic floor to contract. This therapy is suitable for all kinds of urinary and faecal incontinence. FMS also helps patients with sexual dysfunction and chronic pain in the pelvic region and lumbar spine. The effect of magnetic stimulation is noticeable as increased strength and endurance of the sphincter and pelvic floor muscles. The therapy also has a positive effect on intercourse, erections, the ability to achieve orgasm and the active contracting of groin and gluteal muscles.

Results

The graph below shows the results of therapy using functional magnetic stimulation after 16 treatment sessions. The results were collected in three independent centres with 160 female patients. 36 women were treated for urge urinary incontinence (UUI), 42 women were treated for mixed urinary incontinence (MUI), 61 women were treated for stress urinary incontinence (SUI) and 21 women were treated for urinary incontinence after childbirth.



MEASUREMENTS OF URODYNAMICS were performed on a female patient before and after 16 treatment sessions.



Legend:

- Measurement of the pressure within the bladder, before using the device
- Measurement of the pressure within the bladder, after using the device

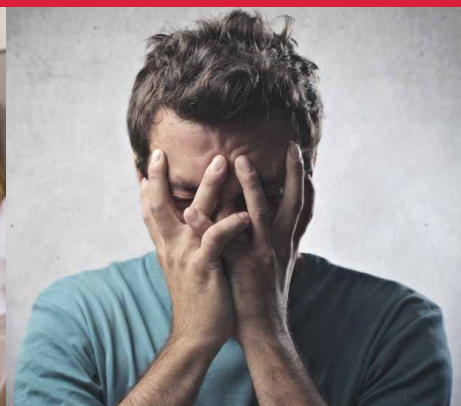
The treatments were performed in the ZZZ-Štrumbelj Private medical institute (Tadeja Štrumbelj, MD), the Podnar Medical center (Polona Podnar, MD) and the Zdravka Koman Mežek Private medical institute for gynecology and obstetrics (Zdravka Koman Mežek, MD).

DISORDERS

INCONTINENCE

REPRODUCTIVE
SYSTEM DISORDERS

PAIN
RELIEF



TESLA Care™

FUNCTIONAL
MAGNETIC
STIMULATION



T E C H N I C A L D A T A

MAGNETIC FIELD STRENGTH	max 3 Tesla
THERAPY FREQUENCY	1 to 160 Hz
NUMBER OF CHANNEL	4
INTERFACE	Color touchscreen
MODULATION	Amplitude or frequency modulation
ACTIVE TIME	1 s - 20 s
PAUSE TIME	0 s - 240 s
MAX NO. OF STEPS PER PROGRAM	8
MAX DURATION OF EACH STEP	1 s - 20 min
THERAPY DURATION	1 min - 60 min
MANUAL PROGRAMS	Yes
PRE-SET PROGRAMS	Yes
PRE-SET PROTOCOLS	Yes
BODY PART PROGRAMS	Yes
FUSE	2xT8A
VOLTAGE, POWER	AC240V 50-60 Hz, 1500 VA
SIZE: TESLA Care / TESLA Care prestige	40x51x26 / 47x60x27 cm (WxLxH)
WEIGHT: TESLA Care / TESLA Care prestige	9.8 / 10.7 kg
MDD 93/42/EEC classification	Class IIa

B A S I C S E T / O P T I O N S

TESLA Care (1800543) / TESLA Care prestige (1800544)	1 pc
Applicator FMS2 L ø15 cm (15113062)	/ optional
Applicator FMS2 M ø11 cm (15113052)	/ optional
Fixing rubber strap 3,2 x 100 cm (1504111)	/ optional
Arm for applicator FMS (1600631)	/ optional
Trolley	/ optional
Chair for pelvic area (1600632)	/ optional
Chair for lumbar area (1600638)	/ optional
Chair for pelvic & lumbar area (1600635)	/ optional
Pedestal for chair (1600636/1600640)	/ optional



CE 2265



Pedestal for chair (1600636)



CE 2265

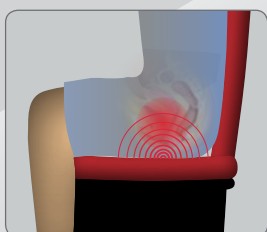
Trolley TESLA FMS (1600879)



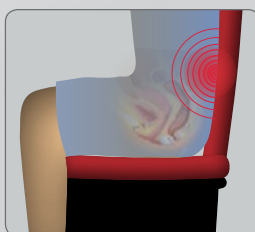
CE 2265

Trolley TESLA FMS (1600879)

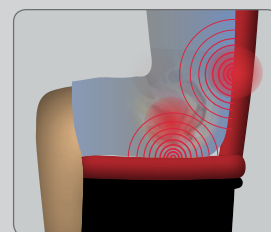
There are three different chair models that are used to treat lumbar area and pelvic floor area:



Chair for pelvic area (1600632)



Chair for lumbar area (1600638)



Chair for pelvic & lumbar area (1600635)

Advantages:

DEEP STIMULATION OF MUSCULAR STRUCTURES

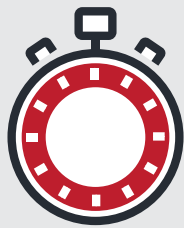
MORE EFFECTIVE THAN ELECTROSTIMULATION

PAINLESS AND NON-INVASIVE THERAPY

SUITABLE FOR PATIENTS WHERE ELECTROTHERAPY CANNOT BE USED

NO SKIN CONTACT

THERAPY WITH OR WITHOUT THERAPIST



**EFFECTIVE AND
DURABLE**

IMPROVEMENTS
AFTER A FEW
SESSIONS



**SAFE AND
PAINLESS**

RESULTS ARE
SUPPORTED BY
SCIENTIFIC STUDIES



**NON
INVASIVE**

EFFECTIVELY STIMULATES
MUSCLE TISSUE WITHOUT
DIRECT SKIN CONTACT

iskramedical.eu

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