



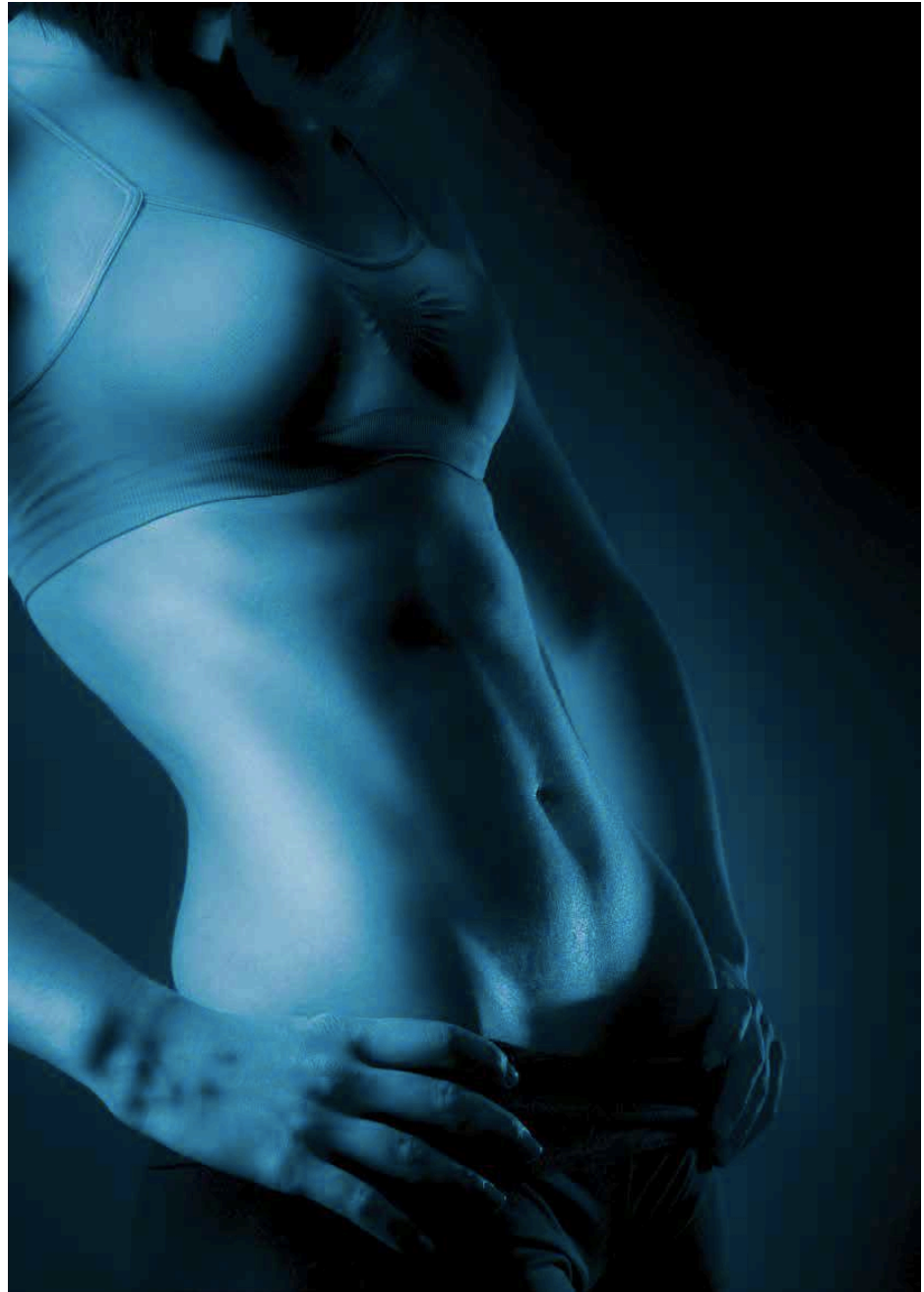
TESLAChair™

CryoMed

Functional Magnetic
Stimulation; TeslaChair



TECHNOLOGY BACKGROUND



“FMS” TECHNOLOGY

Functional magnetic stimulation

Tesla Former device was developed by Iskra Medical for strengthening muscle using the special FMS technology – Functional Magnetic Stimulation.

The pulsed magnetic field generated by the device causes the muscles to contract without even skin contact.

FMS is an effective way to build muscles and contour the body. FMS treatment increases the strength and endurance of the muscles and therefore increases the need for energy use.

That leads to fat reduction, because energy from local fat tissue is used for muscle energy.



How it all started?

- In 1831 Faraday made a discovery that forms the basis of magnetic stimulation.
- The ability of magnetic fields to stimulate nervous tissue was first demonstrated in 1896 by D'Arsonval.
- In 1982 Polson et al. produced a magnetic stimulator capable of peripheral nerve stimulation.
- Barker et al. first described in 1985 magnetic stimulation of the human motor cortex.
- This discovery told us that a time varying magnetic field can be used to induce an electric current. These are just some of the most important discoveries for FMS



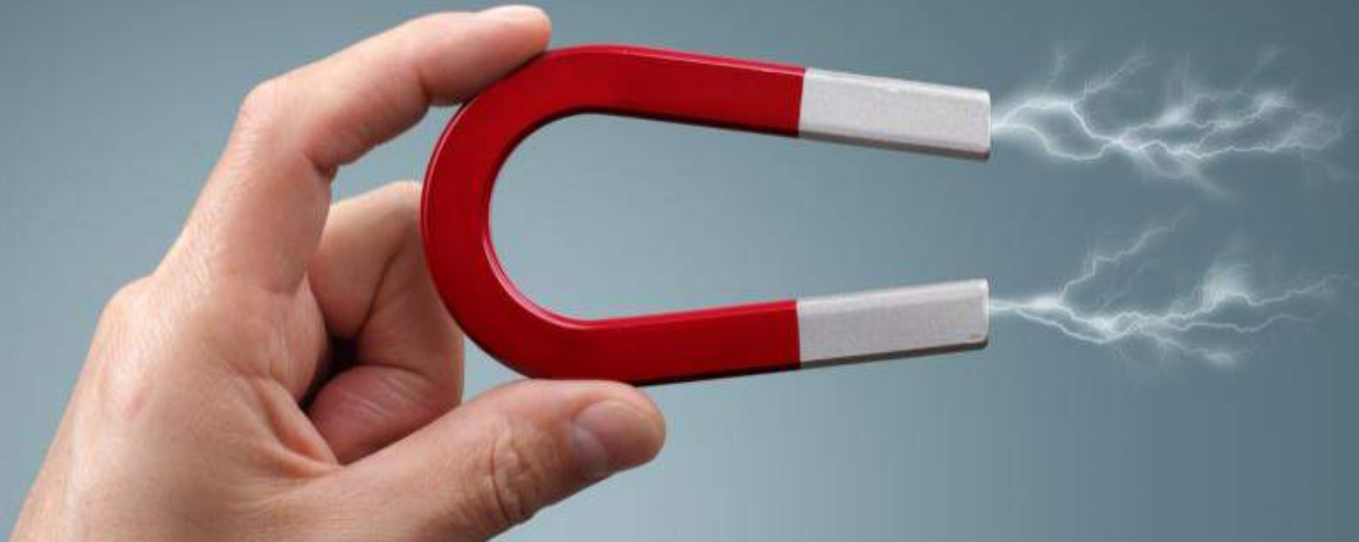
History in medicine

Since that time it has been suggested that magnetic therapy can be useful in treatment of:

- Broken bones (rogachefsky, 1998; sharrard, 1990),
- Wounds (lee, canady, & doong, 1993; man, man, plosker, markov, 1997; szor, 1998),
- Chronic pain (campbell, 1997; valbona, hazelwood & gabor, 1997),
- Psychiatric disorders (baker-price & persinger, 1996; george et al., 1997; kirkcaldie, pridmore, & pascual-leone, 1997)
- Sports rehabilitation (case studies and testimonials, 1999)

Functional magnetic nerve stimulation is a method of stimulating nerves that does not rely on the passage of electric current through electrodes and the skin.

1. Rapid changes of magnetic field intensity induce an electrical current in the neuron.
2. This phenomenon is called electromagnetic induction. Once the current reaches a certain value, a so- called neuron action potential is achieved.
3. This causes the neuron cell to depolarize, which eventually leads to a complete muscle contraction.

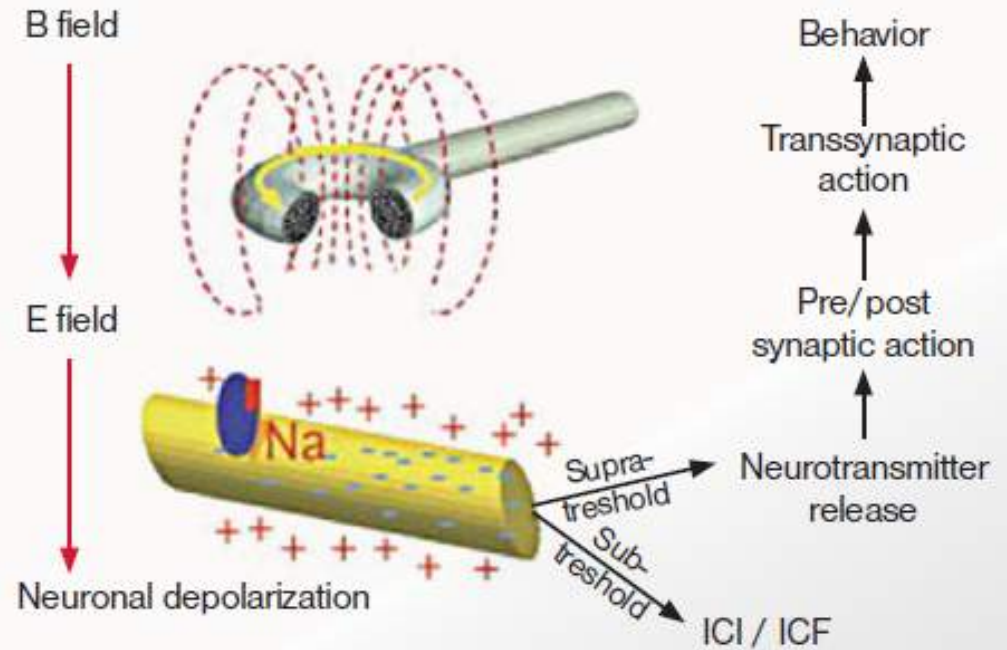


What is a functional magnetic stimulation (FMS)?

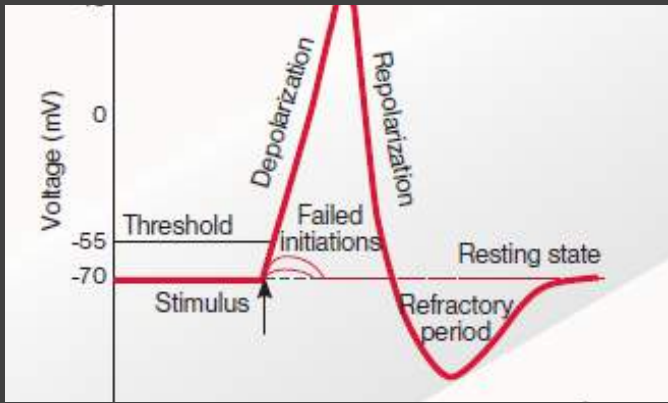
These magnetic pulses produce electrical fields, and if the induced current is of sufficient amplitude and duration such that depolarisation occurs, neural tissue will be stimulated in a similar manner to conventional electrical stimulation.

Importantly, the magnetic fields preferentially activate larger fibres, so avoiding the smaller fibres that mediate pain.

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.



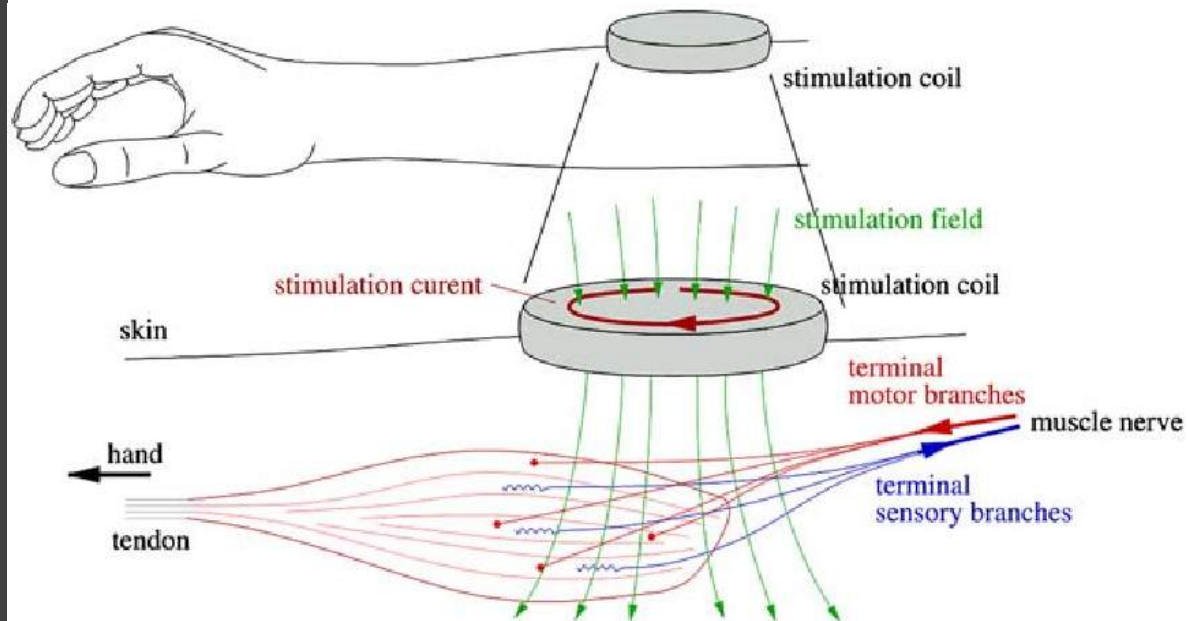
The aim of magnetic stimulation is to cause current to flow in nervous tissue, resulting in depolarisation of the nerve cell membrane and the initiation of an action potential.

A pulse of the magnetic field penetrates into the body. This induces an electric field, which in turn causes ions to flow and result in stimulation.

This stimulates the nerve cells, muscles and blood vessels.

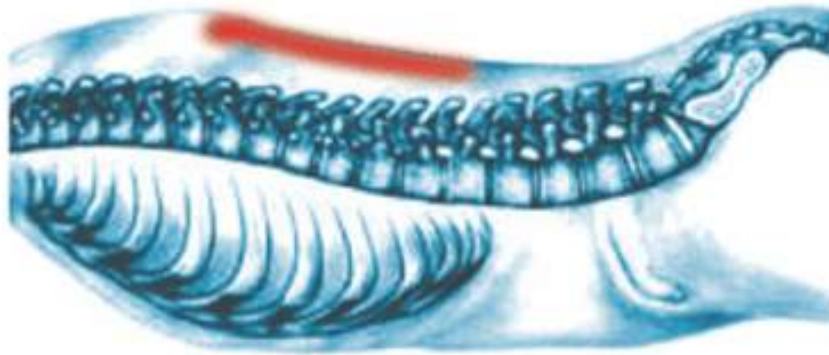
The magnetic field functions as the vehicle that causes ion flow in the body and does not itself stimulate the nerve.

- Magnetic stimulation creates intense, rapidly changing magnetic fields that are able to penetrate clothing, soft tissue and bone, to reach deep nervous structures.
- The human body is a good conductor for the magnetic field.

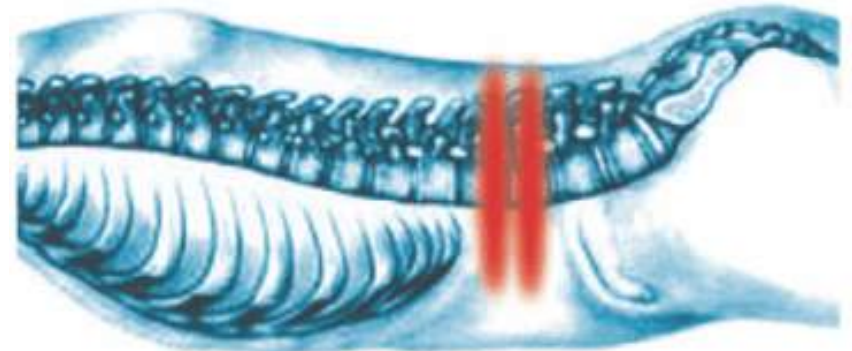


ELECTRO THERAPY VS. FUNCTIONAL MAGNETIC THERAPY

Electro therapy



Functional Magnetic therapy



Comparing it to electric stimulation magnetic fields are less painful, allow deep penetration into heterogeneous biological tissue and do not require skin contact. FMS does not stimulate pain nerves on the skin surface and is therefore more pleasant than classic electrical stimulation.

Magnetic fields pass through clothes, tissue and bone on the way to otherwise inaccessible areas. FMS creates magnetic fields deep inside the body and thus stimulates muscles that cannot be reached using electrical stimulation.

TESLA TREATMENT



Tesla FORMER
device

MAGNETIC FIELD STRENGTH	max 3 Tesla
THERAPY FREQUENCY	1 to 160 Hz, adjustable
NUMBER OF CHANNEL	4
THERAPY DURATION	1 min - 60 min, adjustable

Handheld applicators

Chair

Chair and handheld applicators

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Incontinence

Group Name

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Urge incontinence

Stress incontinence

Mix incontinence

Multi mix incontinence

Multi urge incontinence

Multi stress incontinence

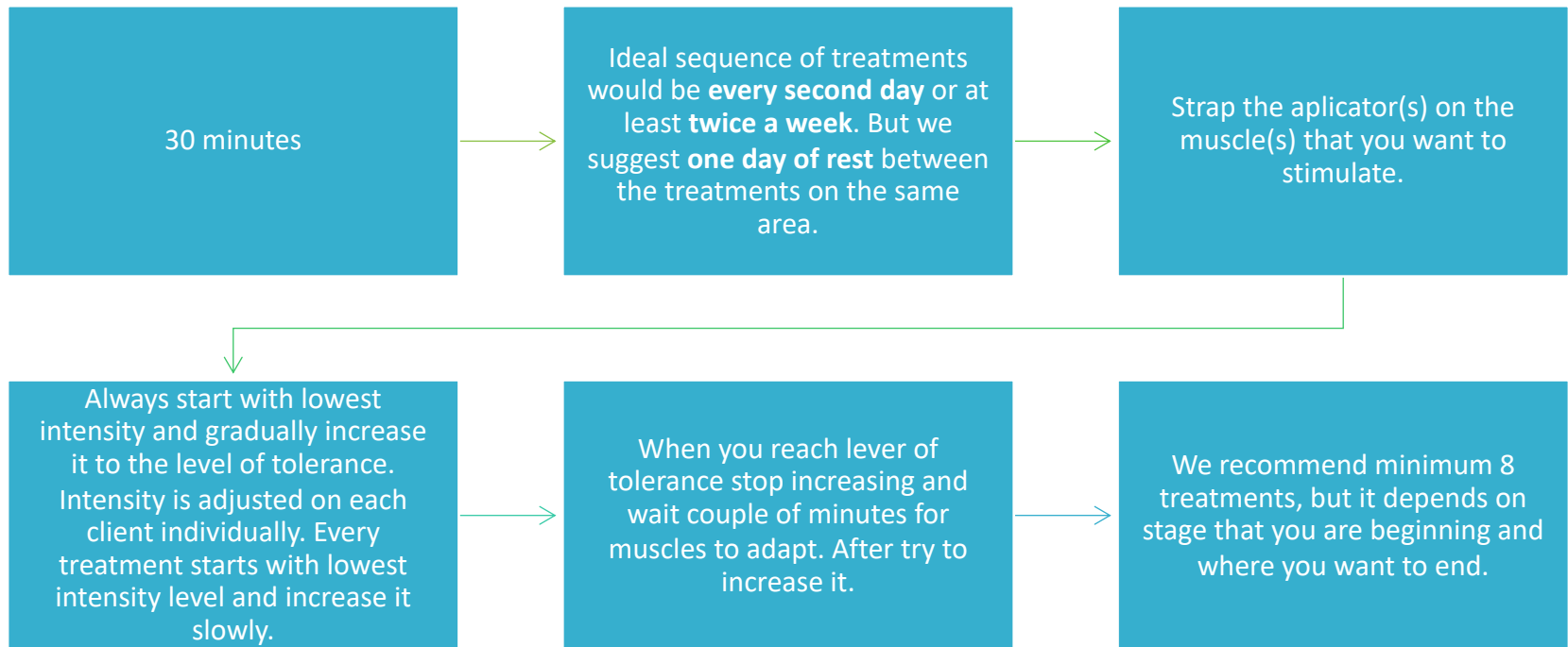
Multi muscle strengthening

Prolapse (Mild)

Erectile dysfunction

Erectile dysfunction (muscle etiology)

Back



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Have realistic expectations.

Clients BMI should not be higher than 25.

Clients that are in better shape will have better and quicker results.

Clients with high BMI will have muscles developed behind the layer of fat tissue so there will be results but hidden to the eye of the observer.

TREATMENT APPLICATION



TESLAChair™

Consultation





EFFECTIVE & 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

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WHAT IS THE TESLA CHAIR?

TESLAChair uses Functional Magnetic Stimulation (FMS) to stimulate muscle contraction which is much higher than what typically the body can achieve through exercise.

WHAT IS IT USED FOR?

TESLAChair excels in muscle development and training also offers basic therapies, physical rehabilitation therapies. TESLAChair form is the only system that can work with 24 different sequences within the same program / session according to the treated area.

WHY TESLA?

TESLAChair form offers a fundamental therapy with 2 Applicators - a unique system with fixed programs for different parts of the body. In A 30-minute session, using different frequencies and sequences, it stimulates muscle nerves, contract muscles, increases the circulatory system and stimulates the fascia. While working on the muscles, the body begins to consume fat tissue in the targeted area. In this way, you build in muscle tone and burn fat.

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WHAT IS THE TECHNOLOGY?

A special magnetic field is generated by a pulse of current inside the Tesla Electro-Magnetic Mechanism, and this induces a current that triggers the motor nerve system of the body, stimulating the targeted muscles to contract, and helping to boost circulation and nutrition.

WHAT DOES THE TREATMENT INVOLVE?

You will be seated, fully clothed, in the comfortable TESLAChair. The therapy is non-invasive, painless and without any known side effects. You will be encouraged to concentrate on muscle contraction during the stimulation. This facilitates the implementation of active learning exercises.

WHO IS IT SUITABLE FOR?

The treatment is suitable for all types of urinary and fecal incontinence. It is used for faster rehabilitation after surgeries in the urogenital area, after childbirth and for some sexual dysfunction and chronic pelvic and lower back pain. You will complete a questionnaire and receive a physical examination as part of your assessment for treatment.

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WHAT IS THE TREATMENT COURSE?

For effective treatment, we recommend 6 – 10 treatments. Therapy is performed two or three times per week for thirty minutes. TESLAChair is a highly tolerable treatment. Results are accumulative with enhanced result after every single session, even from the 1st session.

DOES IT HURT?

The sensation is new to most patients, contracting muscles at a fast and effective rate without causing discomfort. No pain management is involved in the treatment.

IS THERE ANY DOWNTIME?

TESLAChair is an in and out procedure, non-invasive and no downtime. Treatments take from 30 minutes and patients can return to their normal routine after their treatment. TESLAChair is suitable for anyone who wants to tone and strengthen pelvic floor muscle.

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WHAT ARE THE ADVANTAGES OF FMS TECHNOLOGY?

- Allows deep penetration into tissue
- FMS allows stimulation of deep muscle structures that cannot be reached by other modalities
- FMS is painless, noninvasive and thus suitable for patients where other technologies cannot be used
- FMS effectively stimulates muscle tissue without direct skin contact
- No negative side effects are known in the literature as long as contraindications are taken into account

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WHAT DOES THE TESLAChair TREAT

The treatment is suitable for all types of urinary and faecal incontinence. It is used for faster rehabilitation after surgeries in the urogenital area, after childbirth and for some sexual dysfunction, as well as chronic pelvic and lower back pain. Therapy also has a positive effect on improving sexual intercourse, erection and ability to reach orgasm. It provides intense contraction of thigh and buttock muscles.

- Urge urinary incontinence
- Stress urinary incontinence
- Mixed urinary incontinence
- Incontinence after radical prostatectomy
- Fecal incontinence
- Regeneration after childbirth
- Milder forms of drooping uterus and bladder (cistokela, descensus uterusa)
- Rehabilitation after pelvic floor surgery
- Chronic prostate inflammation
- Erectile dysfunction

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PRESCRIPTIONS

Incontinence: Chair treatments ‘pelvic floor gym’

- 2-3 sessions a week usually 4 weeks, up to 8 weeks (always having 1 day rest in-between)
- **Improvement is seen after 5-6 sessions (week 2-3)**
- Strong existing muscles will build faster - less sessions required.
- Kegel exercises recommended home care or more frequent maintenance may be required
- Strong existing muscles will build faster - less sessions required
- If more subcutaneous fat in area and muscles are weak - more sessions will be required

Most of the studies were based around 16 total sessions (2 treatments for 8 weeks)

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WHO CANNOT BE TREATED?

- Pregnancy
- Cancer
- Epilepsy
- Medication pumps
- Complete muscle tear at or near the site of stimulation
- Cardiac pacemakers, Cardiac arrhythmia
- Severe active pulmonary conditions
- Implants made of ferromagnetic metal at or near the site of stimulation
- Endometriosis at time of menstruation
- Open wounds at or near the site of stimulation
- Recent surgery
- Hearing aid
- You are under the age of 18

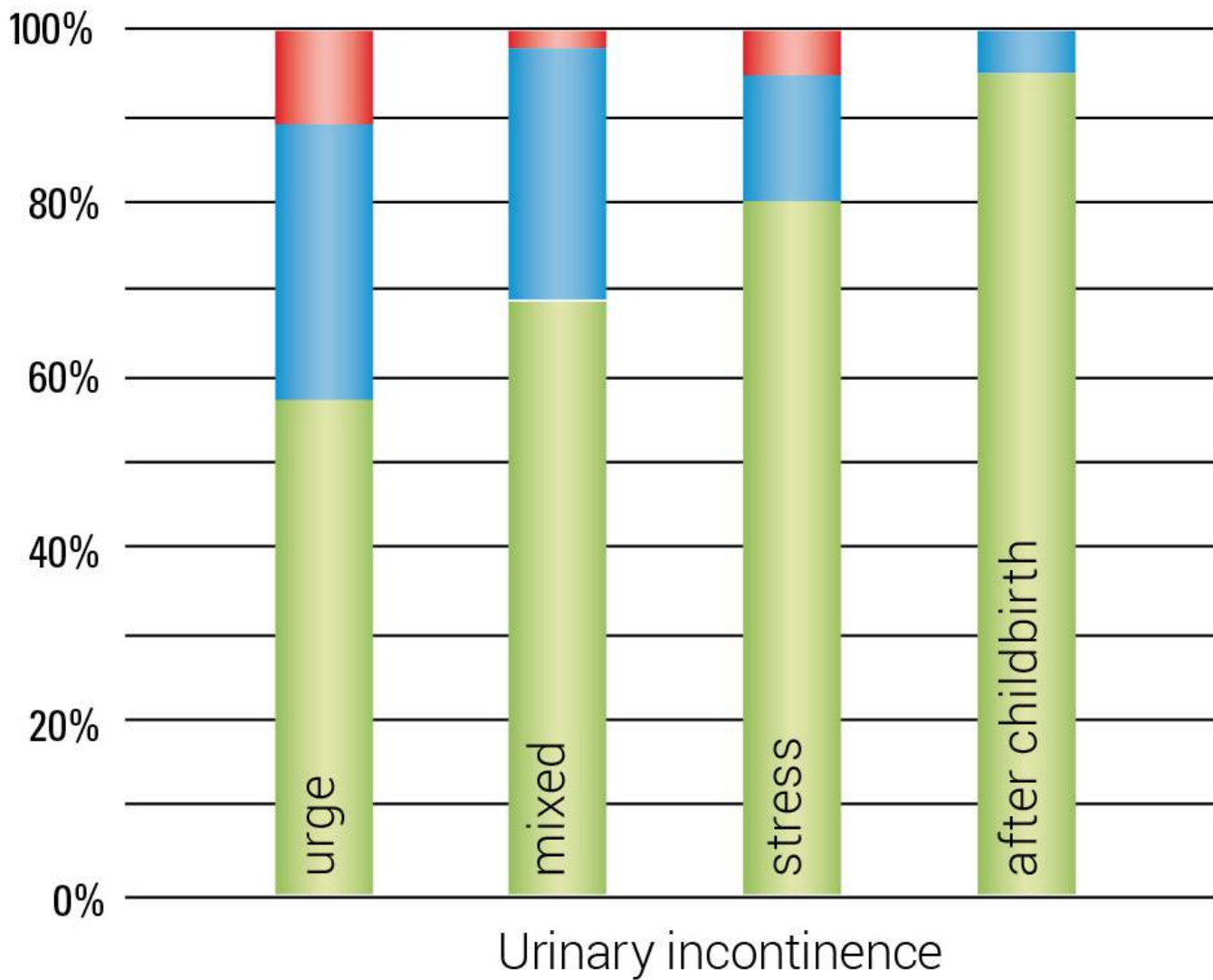
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PRE TREATMENT:

- No special preparation is required before this treatment. You will be asked to complete a questionnaire with information about your incontinence problems, and you will receive a physical examination, which will determine the exact nature of your problem, and the treatment required.
- You will sit, fully clothed, in a comfortable chair for the treatment. You will be encouraged to concentrate on muscle contraction during stimulation, which occurs in bursts of 6 seconds, followed by 6 seconds of rest. The treatment will last for about 30 minutes.
- Ideal sequence of treatments would be every second day or at least twice a week. But we suggest one day of rest between the treatments on the same area.
- It is important that you don't have any metal in the treatment area such as metal studs in jeans. Active wear or gym wear are most suitable options to wear on day of treatment.

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- Treatment is always started on lowest intensity and gradually increased to the level of tolerance – pain threshold. Intensity is adjusted on each client individually. Every treatment starts with lowest intensity level and increased slowly. When you reach level of tolerance intensity will plateau and then increase again in a couple of minutes for muscles to adapt.
- We recommend minimum 8 treatments, but it depends on stage that you are beginning and where you want to end.
- Mild cases could consist of 4-8 treatments 2-3 times per week with 1 day+ rest in between
- Average cases could consist of 6-12 treatments 2-3 times per week with 1 day+ rest in between
- Severe cases could consist of 10-16 treatments 2-3 times per week least 1+ rest day in between.
- It is recommended to drink plenty of water after treatment.



- Fully dry
- Significant improvement
- No improvement or insignificant improvement

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TESLAChair Pre-Treatment Checklist

- Please remove any metal objects, belts watch, mobile phone wallet, body suit press studs, piercings, keys...
- You are not pregnant?
- Do you have an IUD?
- Cannot treat if contains any metal, if all plastic no problem but may become dislodged
- You do not have a Cardiac Pacemaker or any electronic in-plants, drug pumps etc.
- You do not have any metal implants
- You do not have a heart disorder
- Have you recently been to the toilet?

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If All OK you can select program or advanced program and begin by saying:

- Please sit in the center of the chair with your legs at 45 degrees apart
- Your knees need to be at 90 degrees to the floor – use footrest
- Select Protocol - Begin treatment. Slowly increase the energy levels while talking to the patient not discussing energy levels with them
- The deep contractions you will experience will feel very strange. The muscle contractions experienced are Supramaximal contraction – which are not possible naturally
- After 5 mins slowly increase the energy levels again.

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Post Treatment Reminders to patients:

- TESLA Chair is building new muscle fibers which is important to continue supporting new muscle growth by continuing Kegal exercises at home
- A typical treatment plan would consist of 6-10+ treatments 2-3 times per week with at least 1 rest day in between.
- You should now endeavor to start a Kegel exercise regime or come back for maintenance treatments every 6-12 months as you feel the need
- Slowly increase the energy levels during each session
- Ideal sequence of treatments would be every second day or at least twice a week. But we suggest one day of rest between the treatments on the same area.
- After treatment you may continue with all normal activities

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On completion of session:

- Very carefully remove Velcro and applicators and position pack on pole (ie core therapy)**
- Inform patient they will feel a little tender of a few days (ie core therapy)**
- All normal activities can be continued**