EMISSIONS - ALL EQUIPMENT AND SYSTEMS

The ActiPatch device is intended for use in the electromagnetic environment specified below. The user of ActiPatch should ensure that it is operated in such an environment.

Table 2. Guidance for all medical ele	and m	anufacturer's equipment a	s declaration– el nd medical elect	ectromagnetic emissions – rical systems.	Table 4. Guidance for all medical ele	e and manufacturer ctrical equipment a	's declaration – elec nd medical electrica	stromagnetic immunity – al systems.
EMISSION TEST		COMPLIANCE		ELECTROMAGNET ENVIRON- MENT - GUIDELINE	IMMUNITY TEST	IEC/EN 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNET ENVIRONMENT- GUIDANCE
RF Emissions CISPR 11		Group 2, Class B Frequencies (f): 305 f : 580 8 MHz Limits (quasi-peak): 30 dB (µV/m) Distance: 10m		ActiPatch emits electromagnetic energy to provide therapeutic treatment for tissue, At 33.8 MHz, reading is 23.7 dB (µV/m), with a margin on -6.3 dB (µV/m). ActiPatch is suitable for use in all establishments, including domes- tic, and those directly connected to the public low-voltage power supply network that supplies buildings for domestic purposes	Conducted RF IEC 61000-4-6	3 V _{ms} 150 kHz to 80 MHz	(V1) N/A as Acti- Patch is internally powered	Portable and mobile commu- nications equipment should be separated from ActiPatch by no less than the distances calculated/listed below:
					Radiated RF IEC 61000-4-3	80 MHz – 2700 MHz, 80% Amp. Mod. (1kHz)	(E1) 10 V/m	Recommended Separation Distance (m) d=(3.5/V₁) √P (150 kHz– 80 MHz)
Harmonics EN 61000-3-2		N/A		The ActiPatch is internally pow- ered, so not applicable.				d=(3.5/E ₁) √P (80 – 800 MHz)
Flicker EN 61000-3-3		N/A		The ActiPatch is internally pow- ered, so not applicable.				d=(7/E ₁) √P (800 MHz – 2.5 GHz)
Table 3. Guidance and manufacturer's declaration – electromagnetic immunity – for all medical electrical equipment and medical electrical systems.							Where P is the maximum output power rating of the transmitter in watts (W) ac-	
IMMUNITY TEST	IEC TE	/EN 60601 ST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNET ENVIRONMENT- GUIDANCE				manufacturer and d is the recommended separation distance in meters (m).
ESD – Electrostatic discharge IEC/EN 61000-4-2	± 15k charge ± 8kV discha	V air dis- e, contact irge	No conductive surfaces ± 8kV air	Floors should be wood, con- crete, or ceramic tile. If floors are covered with synthetic material, relative humidity should be at least 30%				Field strengths from fixed transmitters, as determined by an electromagnetic site survey, should be less than the compliance levels (VI and E1) in each frequency
EFT – Electrical fast transient/burst EN 61000-4-4	± 2kV ± 1kV	Mains I/Os	N/A as ActiPatch is internally powered	N/A as ActiPatch is internally powered				range. Interference may occur in the vicinity of agripment con
Surge EN 61000-4-5	± 1kV ± 2kV	Differential Common	N/A as ActiPatch is internally powered	N/A as ActiPatch is internally powered				taining a transmitter, marked with the following symbol (
Voltage Dips/ Dropouts EN 61000-4-11 70% Dip in for 0.5 cycles, 70% Dip in for 25 cycles		N/A as ActiPatch is internally powered	N/A as ActiPatch is internally powered	Table 5. Recommended separation distances between portable and mobile RF communications equipment and the medical electrical equipment and medical electrical systems – for medical electrical equipment and medical electrical systems that are not life-supporting.				
PFMF - Power fre- quency (50/60 Hz) magnetic field IEC/EN 61000-4-8	30 A/1	m	N/A as ActiPatch is internally powered	Power frequency magnetic fields should be that of a typical commercial or hospital environment	MAX OUTPUT POWER (WATTS)	SEPARATION (m) 150 KHZ TO 80 MHz d=(3.5/V₁) √P	SEPARATION (m) 80 TO 800 MHz d=(3.5/E ₁) \sqrt{P}	SEPARATION (m) 800 MHZ TO 2.5 GHz $d=(7/E_1)\sqrt{P}$
NOTE: U_7 is the A.C. mains voltage prior to application of test level				0.01	0.11	0.11	0.23	
					0.1	0.26	0.26	0.72

DEVICE SPECIFICATIONS

Table 1. ActiPatch Device Specifications	(Model 077)			
Carrier Frequency	27.12MHz			
Peak Spatial Power Density	73 microwatts/ cm ²			
Pulse Rate	1,000 pulses per second			
Pulsed on Duration	100 micro seconds			
Power Source	Lithium Battery - CR1620			
Antenna Size	12cm			
Treatment Area	110cm ²			
Weight	9.5 grams			
Operation Time	077: Up to 168 hours (continuous)			
Expected Service Life	077: Up to 168 hours (continuous)			

The following are the APPLIED parts: 1) Loop antenna; and 2) Module.

CLINICAL TESTING SUMMARY

Note: Treatment effects of device use were clinically assessed for up to 4 weeks.

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7.37

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 A randomized, controlled trial on chronic cervical osteoarthritis (neck pain): This was a randomized, active-treatment controlled study to evaluate the safety and effectiveness of the ActiPatch medical device to reduce the pain level of patients diagnosed with cervical osteoarthritis. The active-treatment control was an NSAID of the Cox-2inhibitor family. There were 200 intent-totreat patients, out of which 197 completed the four-week study. The primary endpoint for efficacy was reduction in pain (VAS score) while at rest and being active, over four weeks, when compared to the beginning of the study. The primary safety endpoint was all treatment-related adverse events during the study. 94% of the medical device treatment group reported a clinically significant decrease (30% reduction) in VAS pain (at rest) compared to 89% in the NSAID-treatment group, 94% of the medical device treatment group reported a clinically significant decrease (30% reduction) in VAS pain (active) compared to 87% in the NSAID-treatment group. For the secondary outcome of functionality (Neck Disability Index, or NDI), the medical device treatment group reported a 64% improvement compared to 52% in the NSAID-treatment control group. No adverse events were recorded with use of the medical device. In the NSAIDtreatment group 2 subjects reported an adverse event, these being peripheral edema and hypertension, following which NSAID-treatment was ceased. Two other minor adverse events were recorded dysuria and increased blood pressure that didn't

result in the subjects ceasing NSAID treatment. •A randomized controlled trial on osteoarthritis of the knee: The osteoarthritis of the knee study was a double-blinded. randomized, placebo-controlled study to evaluate the safety and effectiveness of the ActiPatch medical device to reduce the pain level of patients diagnosed with knee osteoarthritis. The placebo treatment was a device that was identical to ActiPatch but did not produce an electromagnetic field when turned on. There were 66 intent-to-treat patients, out of which effectiveness endpoints were improvements in pain level over score and WOMAC scores, and the primary safety endpoint is a PSWT device used to adjunctively treat musculoskeletal pain. was all treatment-related adverse events during the study. 36% of the treatment group reported a clinically significant decrease in VAS pain compared to 9% for the placebo group, and 18% of the treatment group reported a clinically significant relief at the source. The device can be used 24/7. decrease in total WOMAC pain compared to 3% for the placebo group. In the medical device treatment group, 26% stopped pharmacological therapy whereas in the placebo group 33% started a new pharmacological therapy during the study. No adverse events were recorded.

•A randomized controlled trial on plantar fasciitis (heel pain): This was a randomized, double-blinded, placebo-controlled study to evaluate the safety and effectiveness of the ActiPatch medical plantar fasciitis. The placebo treatment was a device that was testimonials from consumers. identical to ActiPatch but did not produce an electromagnetic field when turned on. A total of 70 patients were recruited ONLY BETTER! You will not feel heat nor will you feel the low level into the study, and all 70 completed the study. The primary energy that is gently pulsed into the nerves. effectiveness endpoint was the daily morning (AM) VAS score, and the primary safety endpoint was all treatment-related group was 40% compared to 7% for the control group.

MUSCULOSKELETAL PAIN RELIEF



V (S)^^ Non-Sterile ((())) Non-Lanizing E EC REP Read instructions before usinc DFU-MULTI7D-ENG-301 MDSS GMBH 08-18-2023 SCHIFFGRABEN 41 30175 HANNOVER GERMANY

FAQ'S

What is ActiPatch Pulsed Shortwave Therapy (PSWT)?

PSWT pulses radio-frequency electromagnetic energy into the body. There is no sensation from these pulses. The ActiPatch device is 60 patients completed the four-week study. The primary placed on or very close to the skin over the site of pain, such that the site of pain is centered within the loop. To experience pain relief, the four weeks as measured by the before and after VAS the device may need to be used for 3-4 days. The device is safe to use during regular physical activity and during sweating. ActiPatch

How does the device work?

The device safely interrupts abnormal pain signaling in the nerves. This advanced therapy reaches into the painful area to provide real

Is the device safe?

The device is drug free and has no harmful side effects. The device can be worn by diabetics, arthritics, the elderly and bedridden. Note: The device is nonsterile and should not be applied directly over open wounds, it can be applied over bandaged wounds.

Is the device technology clinically proven?

Yes. The device has been clinically proven through a series of clinical studies, of which more are ongoing, at leading medical institutions. The technology has been used for decades in hospitals device to reduce the pain level of patients diagnosed with and clinics and has received an overwhelming amount of positive

What will I feel?

How long until I feel pain relief?

Depending on the severity of the injury, patient pain levels can adverse events during the 7-day study. The results showed that begin to subside after only 2-3 hours of wearing the device and the average reported pain reduction between the first day's AM will continue to decrease as long as the device is being used pain score and the 7th day's AM pain score for the treatment continuously or atleast 12 hours per day. However, in some instances it could take up to 3-4 days for the therapy to take effect.

166-175. doi: 10.21203/rs.3.rs-34236/v1. Visit www.ActiPatch.com for more information!

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El Mohammad AR, Koneru S, Staelin R, McLeod K, Tabbouche

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RECOMMENDATIONS

Indications for Use:

For the adjunctive treatment of musculoskeletal pain

Note: Treatment effects of device use were clinically assessed for up to 4 weeks. Pain relief results may vary for each user. Always read the directions.Use only as directed. If symptoms persist see your healthcare professional

Any serious incident that has occured in relation to the device should be reported to the manufacturer

Recommended Treatment Duration (Use Time): Use the device for a minimum of 12 hours per day, up to 24 hours per day.

HOW TO TURN DEVICE ON

How to turn the Device On:

Step 1: To activate the device, remove the white tab from the back of the device and push the silver on/off button for 1-2 seconds. Release the button.

Step 2: Once the device is activated, the green LED light on the front of the device will turn on. If the green LED light does not turn on, please repeat Step 1.

Note: The 7-Day Trial provides 7 days of continuous treatment & does not have the canability to be turned off once the device has been activated.



For Best Results:

The device loop area should be placed directly over the source of the pain. For maximum pain relief, wear continuously in one area until pain diminishes. The device should be placed as close to the skin as possible. The therapy will also be effective through light clothing.

You can use any type of wraps, adhesives, bandages or clothing to help hold the device in place.

MAINTENANCE AND STORAGE

- Use a damp cloth and mild soap to gently wipe clean after each use, when the device is soiled, or to remove any buildup of residue from medical adhesives.
- Device Operation: a temperature range of +5°C to +40°C;a relative humidity range of 15% to 90%, non-condensing, but not requiring a water vapor partial pressure greater than 50hPa
- Device Transport/Storage: a temperature range of -25°C to + 5°C, and +5°C to +35°C at a relative humidity up to 90%, non-condensing; >35°C to 70°C at a water vapor pressure up to 50hPa
- The device should be operated, stored and transported at an atmospheric pressure between 50 kPa and 106 kPa (0.5 atm and 1.04 atm), up to an altitude of 5,575 m above sea level

Note: Consult your local electronics store or waste management company for guidance on proper disposal of the device.

One or more of the following ACCESSORY may be provided in Adverse Reactions:

your Therapy Kit: Adhesives

Note: Accessories are only intended to secure the ActiPatch device on the body. Accessory use is optional

Adhesives

For best results and maximum hold, clean and thoroughly dry the skin around the area of application to remove dirt, oils, and lotions.



Peel back the raised backer tabs exposing the middle section of tape without removing 2 the backer from the ends. Do not touch tape adhesive. (Figure 2).



Position the loop of the ActiPatch directly over the area of pain. Using the ends with the backer, pick the tape up and apply it to the skin securing the loop to the skin. (Figure 4).

/ActiPatch

Once the center of the tape is holding on the ActiPatch, remove the backer from the

ends of the tape and finish securing the tape in place using gentle pressure. (Figure 5).

Note: Adhesives should be changed every 3 days or when the stickiness wears off, whichever may occur first.





Find ActiPatch on Social Media

CHECK OUT www.ActiPatch.com FOR ACTIPATCH PRODUCTS, ATTACHMENTS, TUTORIALS, & MORE! ^{Use clearly outweights any possible benefic.} ³ A warning is used to identify a hazard that may lead to death or serious

• If pain persists within 3-4 days of use or worsens with use, discontinue use and seek medical attention.

Precautions¹:

- ٠ There are no user-serviceable parts inside the unit. Do not attempt to modify or break open the device.
- Do not wear the device in the shower or bath: the device is not waterproof
- Keep this unit out of the reach of children
- If the LED light does not come on, it indicates that the device is no longer operational and can be disposed of according to local regulations.
- The device should not be used by/on children under the age of 17.
- The device is not intended for use on multiple patients.
- The IP (Ingress Protection) rating for the device is IP22 and therefore offers protection from touch by fingers and objects greater than 12 millimeters. Additionally, the device is protected from water spray less than 15 degrees from vertical.
- The device is non-sterile. Avoid exposing the device to lint, dust and light (including sunlight) to prevent discoloration and to prevent build up of residue.
- The time required for the ME EQUIPMENT to warm from the minimum storage temperature, or cool from the maximum storage temperature, is 1 hour.

Contradindications²:

- Do not use this device directly over a cardiac pacemaker, implanted defibrillator, deep brain stimulator and nerve stimulators or other active implantable device.
- Do not use this device if you are experiencing sudden, unexplained pain. Sudden, unexplained pain can be an indicator of a serious medical condition and may require immediate medical attention.
- Do not use the device if you do not know the cause of vour musculoskeletal pain. Contact your doctor to know more about the source of your pain.
- ActiPatch is a therapy for the adjunct treatment of musculoskeletal pain. Do not use for pain which is located deeper in the body, for example in the chest or stomach. This device is not intended to treat pain deep in the body.
- Do not use this device if you are pregnant or think you are pregnant.
- Do not use this device to treat cancer related pain. This device is not intended to treat cancer related pain.

Warnings³:

iniury.

- If you are in the care of a doctor, consult your doctor before using this device.
- If your pain does not improve after using the device for 7 days, stop using the device and consult your doctor.
- ActiPatch is not a sterile device, so it should not come in direct contact with open wounds or irritable spots.
- Choking hazard: do not swallow the unit. •
- Keep out of the reach of children.
- . Before using, check for damage to the module and cable insulation and use if there is no problem.

¹A precaution is used to identify a hazard that may result in minor or moderate injury to the user or patient or damage to the equipment or other property.

² Contraindications are known and reasonably foreseeable conditions under which the device should not be used because the risk of



APPLICATION

EXPLANATION OF SYMBOLS

Location

Other

Description

Symbol