



Program Guide For

NeuroMed **Electroanalgesic Delivery System** **(MATRIX software version 1/1.0)**

International version 3 / 1.1



Electroanalgesic Delivery System



"Caution: Federal law restricts this device to sale by or on the order of a practitioner licensed by the law of the State in which he/she practices to use or order the use of the device."

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NeuroMed

Electroanalgesic Delivery System

(MATRIX software version 1/1.0)

International Pain Management Treatment Programs

No.	Classification	Frequency	Time	Sweep	Dosage	Pads
1.	Analgesia				sS to T	2 or 4
	Mf / EMf	8,300 pps	10 minutes	pure		
2.	Acute Pain (T)				S	2
	Mf	5000 pps	5 minutes			
	Es	10 pps	5 minutes			
	Es	50-150 pps	5 minutes	Sweep 30 sec		
3.	Acute Pain (E)				S	4
	EMf	5000 pps	3 minutes			
	If	1-10 pps	3 minutes	Sweep 30 sec		
	Es	1-10 pps	3 minutes	Sweep 30 sec		
	If	50-250 pps	3 minutes	Sweep 30 sec		
	Es	50-250 pps	3 minutes	Sweep 30 sec		
4.	Chronic Pain (T)				S to M	2
	Mf	5000 pps	5 minutes			
	Es	50-150 pps	5 minutes	Sweep 30 sec		
	Es	.5-250 pps	5 minutes	Sweep 60 sec		
5.	Chronic Pain (E)				S to M	4
	EMf	5000 pps	5 minutes			
	Es	50-150 pps	2 minutes	Sweep 30 sec		
	If	50-150 pps	3 minutes	Sweep 30 sec		
	Es	.5-250 pps	5 minutes	Sweep 60 sec		
6.	Management and Symptomatic Relief Chronic (long-term) Pain				S to T	2 or 3
	Es	30-40 pps	4 minutes	Sweep 30 sec		
	Mf	5000 pps	4 minutes			
	Es	50-150 pps	4 minutes	Sweep 30 sec		
	Mf	5000 pps	3 minutes			
7.	Cervical Pain				S	4
	EMf	5000 pps	5 minutes			
	If	50-150 pps	10 minutes	Sweep 30 sec		
8.	Chronic Muti-Range Treatment (Less Aggressive)				S to M	4
	If	2-200 pps	4 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
	If	2-200 pps	5 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			

No.	Classification	Frequency	Time	Sweep	Dosage	Pads
9.	Chronic Multi-Range Treatment (More Aggressive)				S to aM	4
	Es	2-200 pps	5 minutes	Sweep 60 sec		
	EMf	5000 pps	2 minutes			
	IF	2-200 pps	6 minutes	Sweep 60 sec		
	EMf	5000 pps	2 minutes			
10.	Increasing of Local Blood Circulation				Ss – M	4
	EMf	5000 pps	1 minute			
	IF	.1 pps	2 minutes			
	EMf	5000 pps	1 minute			
	Es	.2 pps	2 minutes			
	EMf	5000 pps	1 minute			
	IF	.3 pps	2 minutes			
	EMf	5000 pps	1 minute			
	Es	.4 pps	2 minutes			
	EMf	5000 pps	1 minute			
	IF	.5 pps	2 minutes			
11.	Adjunctive Treatment of Post-Traumatic Pain Syndrome (T)				Ss to S	2
	Mf	5000 pps	3 minutes			
	Es	.3 pps	5 minutes			
	Mf	5000 pps	3 minutes			
	Es	100 pps	4 minutes			
12.	Adjunctive Treatment of Post-Traumatic Pain Syndrome (E)				S – M	4
	EMf	5000 pps	3 minutes			
	If	.3 pps	6 minutes			
	EMf	5000 pps	3 minutes			
	If	100 pps	3 minutes			
13.	Joint Pain (T)				S	2
	Mf	5000 pps	5 minutes			
	Es	50-150 pps	10 minutes	Sweep 30 sec		
14.	Joint Pain (E)				S	4
	EMf	5000 pps	5 minutes			
	If	50-150 pps	5 minutes	Sweep 30 sec		
	Es	50-150 pps	5 minutes	Sweep 30 sec		
15.	Pain Associated with Smooth Muscle Spasms				S	4
	EMf	5000 pps	5 minutes			
	If	10 pps	5 minutes			
	If	50-150 pps	5 minutes	Sweep 30 sec		

No.	Classification	Frequency	Time	Sweep	Dosage	Pads
16.	Prevention or Retardation of Disuse Atrophy (Onset)				S	4-Field
	If	10-150 pps	5 minutes	Sweep 60 sec		
	EMf	5000 pps	2 minutes			
	Es	10-150 pps	5 minutes	Sweep 60 sec		
	EMf	5000 pps	3 minutes			
17.	Prevention or Retardation of Disuse Atrophy & Range of Motion				M to aM	4-Field
	Es	1-4 pps	5 minutes	Sweep 30 sec		
	Mf	5000 pps	2 minutes			
	Es	2 pps	5 minutes			
	Mf	5000 pps	3 minutes			
18.	Pain Associated with Neck and/or Arm Pain				S to M	4
	If	50-150 pps	4 minutes	Sweep 30 sec		
	EMf	5000 pps	7 minutes			
	Es	50-150 pps	4 minutes	Sweep 30 sec		
19.	Wrist / Ankle Pain				S	4
	If	10 pps	3 minutes			
	EMf	5000 pps	3 minutes			
	If	50-150 pps	4 minutes	Sweep 30 sec		
	Es	100-250 pps	5 minutes	Sweep 30 sec		
20.	Muscle Stimulation Activation / Training				S to M	4
	Es	1-4 pps	6 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
	If	1-4 pps	6 minutes	Sweep 30 sec		
21.	Relaxation of Muscle Spasms				S to M	4
	Es	100-250 pps	2 minutes	Sweep 30 sec		
	EMf	5000 pps	2 minutes			
	Es	2 pps	2 minutes			
	If	2 pps	2 minutes			
	If	50-250 pps	3 minutes	Sweep 30 sec		
	Es	50-250 pps	2 minutes	Sweep 30 sec		
	Es	3 pps	2 minutes			
22.	Muscle Reeducation Onset				S	4
	If	2-10 pps	4 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
	Es	2-10 pps	5 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
23.	Cervical Pain				S	6-Field
	Es	8,300 pps / 8-15 pps	15 minutes	Sweep 30 sec		

No.	Classification	Frequency	Time	Sweep	Dosage	Pads
24.	Prevention or Retardation of Disuse Atrophy				M to aM	2
	Es	2 pps	3 minutes			
	Mf	5000 pps	2 minutes			
	Es	3 pps	3 minutes			
	Mf	5000 pps	2 minutes			
	Es	1-4 pps	4 minutes	Sweep 30 sec		
	Mf	5000 pps	1 minute			
25.	Pain Associated with the Hip / Pelvic Region				S	4
	EMf	5000 pps	10 minutes			
	If	2-100 pps	5 minutes	Sweep 60 sec		
26.	Stimulation of Pelvic Floor Musculature				M to aM	2
	Es	1-4 pps	4 minutes	Sweep 30 sec		
	Mf	5000 pps	3 minutes			
	Es	2-10 pps	5 minutes	Sweep 30 sec		
	Mf	5000 pps	3 minutes			
27.	Post Trauma Pain				M	2
	Mf	5000 pps	2 minutes			
	Es	.5 pps	5 minutes			
	Mf	5000 pps	3 minutes			
	Es	1.5 pps	5 minutes			
28.	Muscle Reeducation				M to aM	2
	Es	2 pps	4 minutes			
	Mf	5000 pps	3 minute			
	Es	1-4 pps	5 minutes	Sweep 30 sec		
	Mf	5000 pps	3 minutes			
29.	Prevention or Retardation of Disuse Atrophy				aM	2
	Es	20 pps	15 minutes			
30.	Relaxation of Muscle Spasms				S to aM	4
	Es	2 pps	3 minutes			
	EMf	5000 pps	3 minutes			
	If	50-150 pps	6 minutes	Sweep 30 sec		
	EMf	5000	3 minutes			
31.	Pain Associated with Muscle Spasm				S	4
	Es	35-250 pps	3 minutes	Sweep 30 sec		
	EMf	5000 pps	2 minutes			
	If	2 pps	2 minutes			
	Es	5000 / 2 pps	2 minutes			
	If	35-150 pps	3 minutes	Sweep 30 sec		
	Es	5000 / 150	2 minutes			
	Es	1-3 pps	1 minute	Sweep 30 sec		

No.	Classification	Frequency	Time	Sweep	Dosage	Pads
32.	Increasing of local blood circulation (E)				S	4
	If	1-4 pps	3 minutes	Sweep 30 sec		
	Es	1-4 pps	3 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
	Es	2-10 pps	3 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
33.	Chronic Back Pain				S	4
	EMf	5000 pps	5 minutes			
	If	50-150 pps	10 minutes	Sweep 30 sec		
34.	Post Traumatic Pain				S	4
	Es	10 pps	3 minutes			
	If	1-3 pps	3 minutes	Sweep 30 sec		
	EMf	5000 pps	4 minutes			
	Es	1-10 pps	2 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
35.	Increasing of Local Blood Circulation (Lower extremities)				S	4
	If	50-150 pps	3 minutes	Sweep 30 sec		
	EMf	5000 pps	5 minutes			
	Es	.3 pps	4 minutes			
	EMf	5000 pps	3 minutes			
36.	Increasing of Local Blood Circulation (T)				S	2
	Es	80-120 pps	10 minutes	Sweep 30 sec		
	EMf	5000 pps	5 minutes			
37.	Pain on Extremities Associated with Edema				sS to S	4
	EMf	5000 pps	2 minutes			
	Es	50-150 pps	5 minutes	Sweep 30 sec		
	EMf	5000 pps	3 minutes			
	If	50-250 pps	5 minutes	Sweep 30 sec		
38.	Immediate Post Stimulation of Calf Muscle to Prevent Venous Thrombosis				M to aM	2
	Es	1.5 pps	10 minutes			
	Mf	5000 pps	5 minutes			
39.	Increasing of Local Blood Circulation (upper extremities)				S	4
	EMf	5000 pps	4 minutes			
	If	10 pps	3 minutes			
	Es	10 pps	3 minutes			
	If	50-150 pps	5 minutes	Sweep 30 sec		
40.	Management and Symptomatic Relief Chronic (long-term) Pain				S to T	2 or 3
	EMf	10,000 pps	5 minutes	pure	*1	
	Es	10,000/85-150 pps	5 minutes	Sweep 30 sec	*1	
	Es	10,000/50-250 pps	5 minutes	Sweep 30 sec	*1	
	EMf	10,000 pps	5 minutes	pure	*1	

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Es:	Action Potential Class – Depth	(Stimulation)	2 or 4-pad application
If:	Interferential Class	(Endogenous Stimulation)	4-pad application
Mf:	Non-Action Potential Class	(Topical Middle Frequency)	2-pad application
EMf:	Non-Action Potential Class - Depth	(Endogenous Middle Frequency)	4-pad application

LEGEND

S	Sensory Threshold
aS	above Sensory Threshold
aM	above Motor Threshold
cT	comfortable Tolerance Threshold
T	Tolerance Threshold
*1	With the advice and management of a licensed medical physician, the dosage could and/or should be increased to Comfortable Tolerance Threshold throughout patients treatment

*1: WARNING AND PRECAUTIONS: Some patients may experience skin irritation or hypersensitivity due to the electrical stimulation or electrical conductive medium. The irritation can usually be reduced by use of an alternate conductive medium or alternate electrode placement. Skin irritation and electrode burns are potential adverse reactions. High dosage may cause dermal burns.

At present, two different electromedical classifications are known and described:

<u>Action Potential Class:</u> (T.E.N.S. / IF)	Biophysiological effects induced by repeated synchronous action Potentials in excitable cells, (membrane depolarization and re-polarization activity). (1-250pps)
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<u>No-Action Potential Class:</u> (Middle Frequency)	Biophysiological effects induced without repeated action potential propagation, (no membrane depolarization and repolarization activity). Physiological effects are achieved via multiple mechanisms of action. (faster then 2000pps) to inhibit pain, as know as Electroanalgesia.
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