

CLINICAL STUDIES

CANADA

PST Center, Vancouver, Canada
April 1998

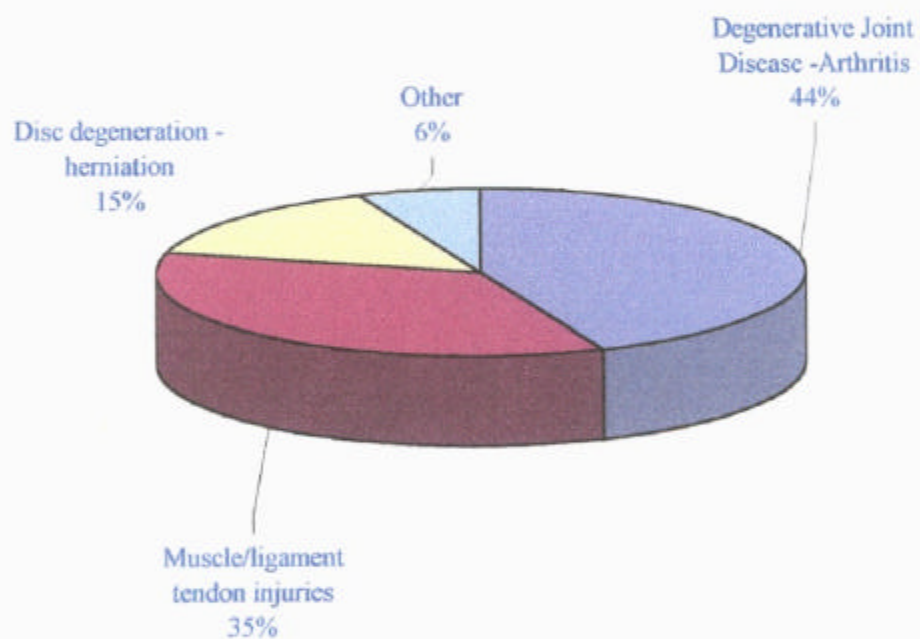
Dr. Dr. Cecil Hershler

Diagnostic Profile

DIAGNOSTIC PROFILE OF PULSED SIGNAL THERAPY PATIENT POPULATION Patients treated before April 1, 1998

<u>Condition</u>	<u>N</u>
Degenerative Joint Disease - Arthritis	36
Muscle/ligament/tendon injuries	29
Disc degeneration - herniation	12
Other	5

Patient population - diagnostic profile
N=82

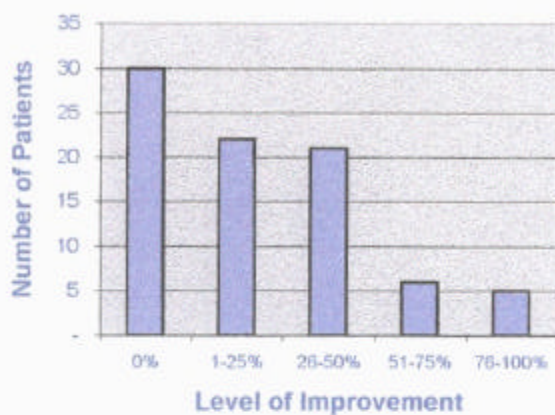


PST Effect

CHRONIC PAIN - LEVEL OF IMPROVEMENT FOLLOWING PST

Updated: April 1, 1998

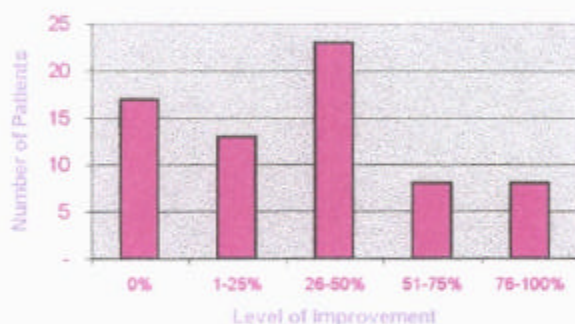
Effect of PST (9 sessions Post PST)
(N=84)



9 Sessions Post - PST

Improvement	Number of Pts
0%	30
1-25%	22
26-50%	21
51-75%	6
76-100%	5
N	84

Effect of PST (6 Week Post-PST) N=69



6 Week Post - PST

Improvement	Number of Pts
0%	17
1-25%	13
26-50%	23
51-75%	8
76-100%	8
N	69

EXPLANATION

Based on the following scale, the following patients were asked to assess the intensity of their symptoms following the PST treatment (after 9 sessions of therapy and at 6 week follow-up):

- 0 none or never
- 1 slight or seldom
- 2 moderate or sometime
- 3 severe or often
- 4 extreme or always

The results were then compared with the assessment obtained before the commencement of the treatment and the level of improvement in % was noted.

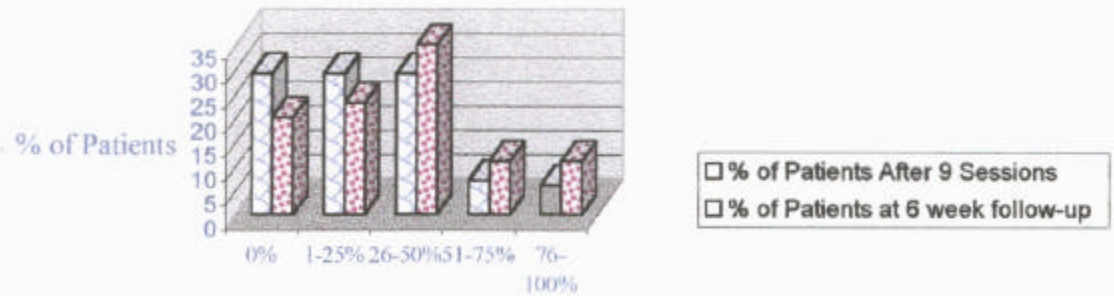
Parallel

LEVEL OF IMPROVEMENT FOLLOWING PST

Parallel presentation of Pulsed Signal Therapy results over time
(after 9 sessions of therapy and at 6 week follow up)

Last Updated April 1, 1998

Post-PST Assessment of Intensity of Pain



Level of Improvement

Level of Improvement	% of Patients After 9 Sessions	% of Patients at 6 week follow-up
0%	29	20
1-25%	29	23
26-50%	29	35
51-75%	7	11
76-100%	6	11
Totals	100	100

EXPLANATION

Based on the following scale the patients were asked to assess the intensity of their symptoms following the PST treatment (after 9 sessions of therapy and at 6 week follow up):

- 0 none or never
- 1 slight or seldom
- 2 moderate or sometime
- 3 severe or often
- 4 extreme or always

The results were then compared with the assessment obtained before the commencement of the treatment and the level of improvement in % was noted.

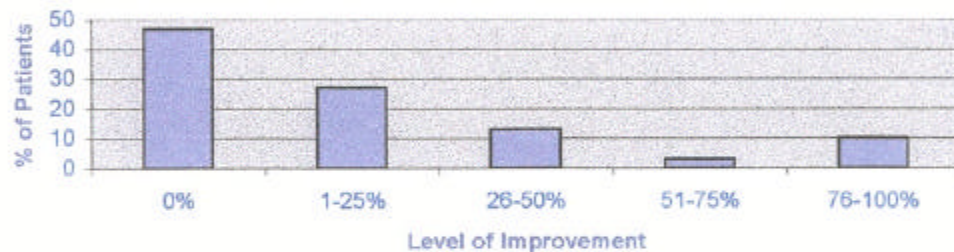
MVA Graph

Patients With History of Motor Vehicle Accidents Level of Improvement (Pain Intensity) after PST April 1, 1998

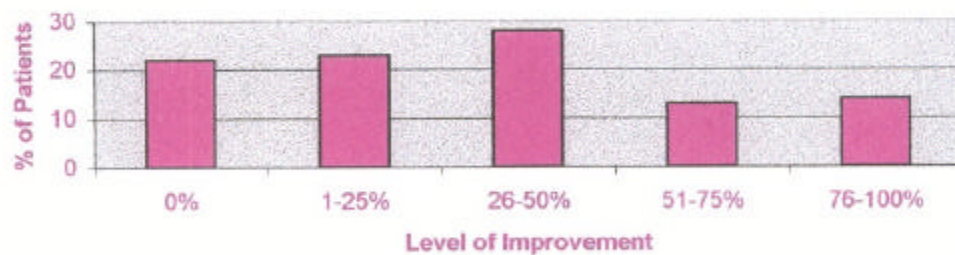
Patients were asked to evaluate their symptoms on a linear scale before starting PST treatments. The same procedure was repeated after the 9 sessions of treatment and at 6 week follow-up. Level of improvement was noted as a % difference between the pre-treatment and post-treatment scores.

Level of Improvement	% of Patients after 9 sessions	% of Patients at 6 weeks	Patients who had scores within the same range (no response, 1-25% improvement, 26-50% improvement, etc.) were then grouped accordingly and number of patients in each group was expressed as a % value with respect to the total number of patients included in the study (30 patients for "After 9 treatments" group and 22 in "6 week follow-up" group)
0%	47	22	
1-25%	27	23	
26-50%	13	28	
51-75%	3	13	
76-100%	10	14	
N=	30	22	

% MVA Patients vs. Level of Improvement (Pain Intensity) Post-PST (9 sessions) (N=30)



% MVA Patients vs. Level of Improvement (Pain Intensity) Post-PST (6 Weeks) (N=22)

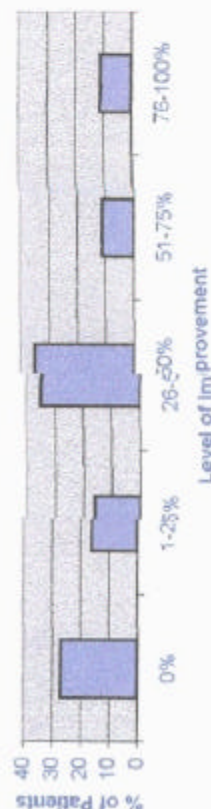


Pulsed Signal Therapy Results (April 1, 1998)

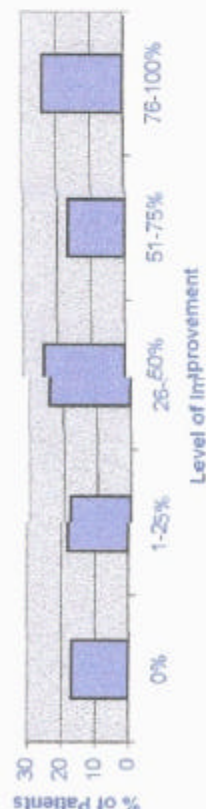
Degenerative Joint Disease - Arthritis

Level of Improvement	% of Patients after 9 sessions	% of Patients at 6 weeks
0%	27	17
1-25%	16	18
26-50%	35	24
51-75%	11	17
76-100%	11	24
N=	37	29

Degenerative Joint Disease - Arthritis
Post-PST (9 sessions)
(N=37)



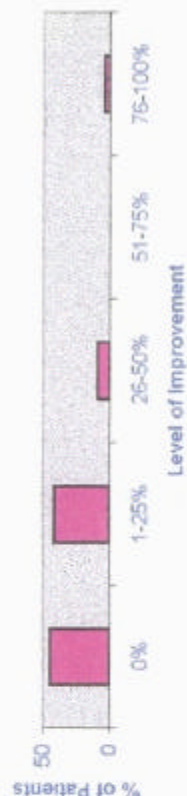
Degenerative Joint Disease - Arthritis
Post-PST (6 weeks)
(N=29)



Muscle/ligament/tendon injuries

Level of Improvement	% of Patients after 9 sessions	% of Patients at 6 weeks
0%	45	28
1-25%	42	29
26-50%	9	39
51-75%	0	0
76-100%	4	4
N=	33	28

Muscle/ligament/tendon injuries Post-PST (9 sessions)
(N=33)



Muscle/ligament/tendon injuries
Post-PST (6 weeks)
(N=28)

