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Effect of adding ozone sauna to local injections in low back pain treatment.

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ABSTRACT

PURPOSE

To evaluate the effect of adding ozone sauna with local O3 injection in low back treatment and comparing it to local O3 injection alone.

PATIENTS & METHODS

This study was conducted on 70 patients suffering from chronic low back pain (< 6 month), (Age: 35-65 years.), (L1/L2 to L5/S1), and Pain Assessment depends on Pain Scale before treatment and after 2, 4, 6, 8, 10, 12 sessions.

Patients are divided randomly into 2 groups; group (A) is 20 patients 12 males and 8 females and group (B) is 50 patients 33 males and 17 females.

Group (A): received local O3 injection (7-12 mcg./ml.) for 12 sessions twice weekly.

Group (B): received local O3 injection as group (A) followed by OZONE SAUNA for 12 sessions twice weekly.

RESULTS

Group A	Pain Scale							No. of PT.their pain scale become less than		
	No.of sessions	10-9	8-7	6-5	4-3	2-1	0	(A) <60%	(B) <40%	(C) <20%
	0	4	16			٠				•
	2	4	8	5	3	٠		8 = (40%)	3 = (15%)	
	4	4	6	4	4			8 = (40%)	4 = (20%)	
	6	3	4	4	4	1		9 = (45%)	5 = (25%)	1=(5%)
	8	2	3	3	6	6		15=(75%)	12=(60%)	6 = (30%)
	10	2	2	1	7	6	2	16 =(80%)	15=(75%)	8 = (40%)
	12	2	1	2	4	8	3	17 =(85%)	15=(75%)	11=(55%)

Group B	Pain Scale	<u>10–9</u>	<u>8-7</u>	6–5	<u>4–3</u>	2-1	2=1 0	No. of PT. their pain scale become less than		
	No. of sessions		_					(<u>A</u>)< 60 %	(<u>B)<40</u> %	(C)<20 %
	_0	<u>18</u>	32	==	==	=	=			
	2	10	11	<u>8</u>	12	6	3	29 = 58%	21 = 42%	9 = 18%
	4	_10	3	_3	9	_19	_6	37 = 74%	<u>34 =</u> <u>68%</u>	<u>25 =</u> <u>50%</u>
	6	I	3	_4	I	_21	_8	40 =80%	36 =72%	<u>29 =</u> <u>58%</u>
	8	<u>.5</u>	3	_6	3	_24	9	42 =84%	<u>36 =72%</u>	33 =66%
	10	3	3	2	2	27	13	44 =88%	42 =84%	<u>40 =</u> <u>80%</u>
	12	_2	_2	1	1	28	<u>16</u>	46 =92%	45 =90%	44 =88%

DISCUSSION

- (A) Previous studies were done proving that treating chronic low back pain by antibiotics for long periods gives good results.
- (B) Systemic effect of Ozone Sauna (its bactericidal effect) could be the reason standing behind the fast and sustained improvement of patients receiving it and local ozone injections (its anti-inflammatory effect) at the same time.

CONCLUSION

Adding Ozone Sauna to local O3 injections in treating chronic low back pain resulted in fast improvement and better outcome (more patients) than using local O3 injections alone.