

BRISBANE CONVENTION & EXHIBITION CENTRE AUSTRALIA 15 - 17 AUGUST 2019



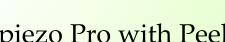
## Pilot study for evaluation of reduction of mucositis with the support of ozonated-water oral irrigator

L. Parisi <sup>1</sup>, G. Luraghi <sup>2</sup>, A. Genovesi <sup>2</sup>, A. Chiesa <sup>2</sup>, C. Maiorani <sup>2</sup>, A. Scribante <sup>2</sup>, M. Segù <sup>2</sup>, A. Butera <sup>2</sup>, R. Rodriguez y Baena <sup>2</sup> <sup>1</sup> Free Lancer in Milan <sup>2</sup> Department of Diagnostic and Pediatric Surgical Clinical Sciences University of Pavia, Italy

**OBJECTIVES**: To determinate if there is difference of efficacy between standard therapy and therapy with support of ozonated water for the treatment of peri-implant mucositis



26 subjects with peri-implant disease



**Image 1. Mucosit** 



Image 2. Utilitation of Peek's tip

- G<sub>1</sub> was treated with ultrasonic scaler (Mectron Multipiezo Pro with Peek's tip) and ozonated water therapy (Aquolab)
- $G_2$  was treated with standard therapy and placebo application (water) Biorepair Plus Parodontgel has been given as home-made toothpaste in G<sub>1</sub> and G<sub>2</sub> (Coswell)

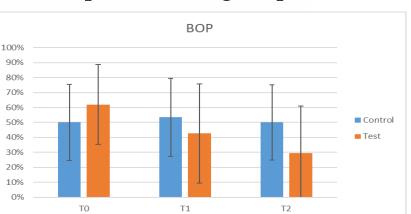
Professional supra-gingival scaling, glycine air-flow application and polishing was performed in every session in both groups (from T0).

At the end of every session in each group oral irrigation was applied (ozonated water for  $G_1$  and only water for  $G_2$ ).

RESULTS: Eventually of follow-up, BOP has decreased from 61,96% to 29,55% and from 50,14% to 50,00% from T0 respectively of G1 and G2. BS has decreased of -62,6% and -1,6%. PPD has diminished of -0,81 mm and -0,01 mm from T0 in G1 and G2. PI has improved in all groups, but the best results were found in experimental group.

PPD	T TO	T T1	T T2	C T0	C T1	C T2
Mean	4,65	4,14	3,84	4,67	4,55	4,66
St Dev	0,57	0,87	0,67	0,75	0,66	0,96
Min	4,00	3,00	3,00	4,00	3,33	3,25
Mdn	4,60	4,00	3,63	4,50	4,75	4,34
Max	5,71	5,82	5,24	6,33	5,54	6,91

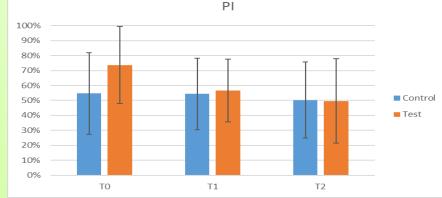
Table 1. Descriptive statistics of probing pocket depth (PPD) of both groups.



Graphic 1. Comparison decrease of bleeding on probing (BOP) of group Test and group Control.

TEST			CONTROL			TEST VS CONTROL		
T0	T1	T2	T0	T1	T2	T0	T1	T2
0,0164	0,0082	0,0001	0,4747	0,3628	0,9812	0,3009	0,3992	0,0982
*	*	*	NS	NS	NS	NS	NS	NS
	TEST		C	ONTRO	L	TEST	VS CON	TROL
Т0	TEST T1	T2	T0	ONTRO	<b>L</b> T2	TEST TO	VS CON	TROL T2
T0 0,0089		T2 0,0150			<u> </u>			

Table 2 and 3. Inferential statistics of BOP and PI



Graphic 2. Comparison decrease of plaque index (PI) of group Test and group Control

CONCLUSIONS: From the present study, it can be concluded that therapy with support of ozonated water showed statistically higher effetiveness compared to standard therapy (p<0.05)

## **ESSENTIAL BIBLIOGRAPHY:**