

Title: Effect of CT-guided repeated pulsed radiofrequency in acute/subacute Zoster-associated pain: A retrospective cohort study

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Supplementary table 1. Univariable and multivariate analysis by GEE on clinically meaningful ZAP during follow-up time

Variables	Univariate analysis		Multivariate analysis	
	Odds Ratio(95%CI)	<i>p</i>	Odds Ratio(95%CI)	<i>p</i>
Treatment	0.48(0.25 - 0.93)	0.03	0.35(0.178 - 0.70)	0.003
Age	1.03(1.00 - 1.06)	0.05	1.03(1.00 - 1.06)	0.06
Gender	0.94(0.49 - 1.81)	0.85	-	-
Hypertension	1.33(0.69 - 2.55)	0.39	-	-
Diabetes mellitus	1.96(0.85 - 4.52)	0.11	2.55(1.02 - 6.38)	0.05
BMI	0.91(0.82 - 1.01)	0.09	-	-
Weight	0.96(0.93 - 1.00)	0.03	0.97(0.93 - 1.01)	0.11
Height	0.96(0.91 - 1.00)	0.07	-	-
Course of disease	1.03(1.00 - 1.05)	0.02	1.01(0.98 - 1.03)	0.56
Affected side	0.69(0.36 - 1.31)	0.26	-	-
Affected position	1.83(0.94 - 3.57)	0.08	-	-
Early medication	0.81(0.36 - 1.79)	0.60	-	-
Lymphocyte count	0.88(0.68 - 1.14)	0.34	-	-
Immunosuppression	1.26(0.47 - 3.37)	0.65	-	-
Lesion space	1.30(0.86 - 1.96)	0.21	-	-
Pre-NRS	1.51(1.16 - 1.98)	0.002	1.25(0.88 - 1.78)	0.21
Pre-PSQI	1.42(1.15 - 1.75)	0.001	1.37(1.04 - 1.81)	0.03

CI, confidence interval; Treatment: R-PRF by reference to PRF+PVB; Gender: women by reference to men; Affected side: right by reference to left; Affected position: extremities by reference to trunk.

Age, weight, course of disease, pre-NRSs and pre-PSQI at the $p < 0.05$ level by univariable analysis, diabetes mellitus plays a important role in ZAP by literature review. These variables above were taken into the multivariable GEE analysis.

Supplementary table 2. NRSs and PSQI in PRF+PVB and R-PRF treatment at time point of each follow-up visit

Secondary outcome	PRF+PVB (N=66)	R-PRF (N=84)	Group × Time interaction	
	Median (IQR)	Median (IQR)	β (95%CI)	<i>p</i>
NRSs				
Baseline	7(6,8)	7(6,8)	-0.04(-0.43 to 0.35)	0.86
1 month	4(3,4) ***	3(2,4) ***	-0.46(-0.81 to 0.11)	0.01 [†]
3 months	3(1,4) ***	2(1,3) ***	-0.42(-0.89 to 0.05)	0.08
6 months	2(0,3) ***	2(0,3) ***	-0.39(-0.88 to 0.10)	0.12
9 months	1(0,3) ***	1(0,3) ***	-0.06(-0.51 to 0.39)	0.79
12months	1(0,2) ***	1(0,3) ***	0.02(-0.43 to 0.47)	0.94
PSQI				
Baseline	18(17,19)	18(17,19)	-0.01(-0.50 to 0.48)	0.97
1 month	11(10,13) ***	10(8,12) ***	-1.03(-1.77 to 0.29)	0.01 ^{††}
3 months	11(9,12) ***	9(7,11) ***	-1.03(-1.83 to -0.23)	0.01 [†]
6 months	10(8,11) ***	8(7,10) ***	-0.95(-1.68 to 0.22)	0.01 [†]
9 months	9(8,11) ***	8(6.5,10) ***	-0.85(-1.59 to -0.11)	0.03 [†]
12months	9(8,10) ***	8(6.5,10) ***	-0.74(-1.48 to 0.00)	0.05 [†]

IQR: Interquartile Range; Group × Time interaction: the difference between the two groups at each time point, analyzed by generalized estimating equations (GEE);

Abbreviations: *** $p < 0.001$ indicates significant change within both groups without significant intergroup differences compared with baseline; Daggers denote the significance level of the difference between groups at a particular timepoint:

[†] $p \leq 0.05$. ^{††} $p < 0.01$