

The Effect of P6 Acupressure of Nausea, Vomiting and Retching of the Patients with Liver Cancer undergoing TACE

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PURPOSE and DESIGN

- **Background**

- TACE : widely used as an anti-cancer procedure for liver cancer
- Doxorubicin and cisplatin : common drugs for TACE at least moderate risk of vomiting
- limited nursing intervention for emesis after the TACE
- Pericardium 6 (P6) acupoint acupressure : anti-vomiting effect



Sea-Band®

- **Purpose**

Investigate the clinical effects of P6 acupressure using wristband (Sea-Band®) on nausea, vomiting and retching after TACE.

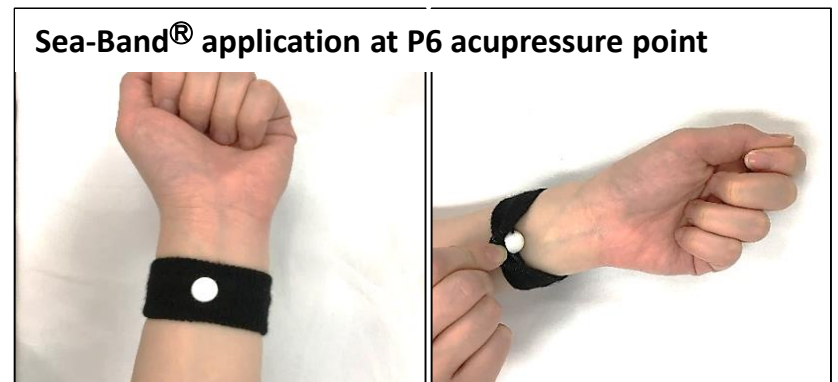
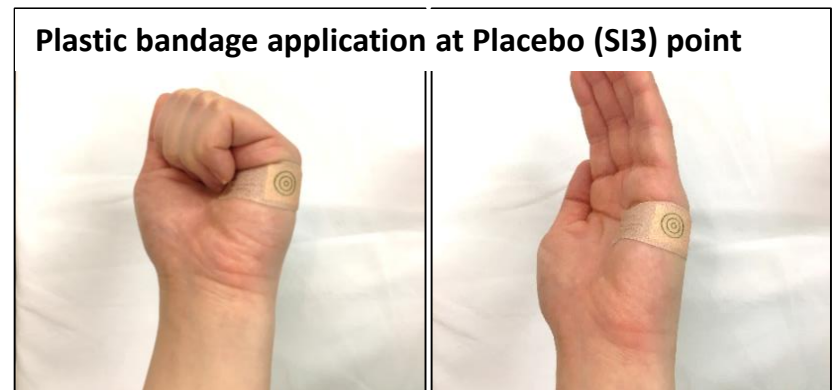
- **Design**

Group (N=90)	Treatment day	Day0	Day1	Day2	Day3	Day4		
	Data collection time point	Pre	Post1 (9pm)	Post2 (9am)	Post3 (9pm)	Post4 (9am)	Post5 (9pm)	Post6 (9am)
Control (n=30)		●						
		○	○	○	○	○	○	○
Placebo(SI3) group (n=30)		●						
		○	○	○	○	○	○	○
P6 acupressure group (n=30)		●						
		○	○	○	○	○	○	○

● = General characteristics, ○ = INVR– Index of Nausea, Vomiting and Retching

1. P6 acupressure, placebo(SI3) application from Day1 to Day4

2. INVR measurements for total 7 times



RESULT (1)

- Demographic and disease-related characteristics of the participants**

Characteristics	Control (n=29)	Placebo (SI3) (n=29)	P6 acupressure (n=25)	Total (N=83*)	<i>p</i> value
Age	60.8 ± 7.3	60.3 ± 6.8	60.8 ± 12.4	60.6 ± 8.9	0.95
Male	24 (82.8)	20 (69.0)	22 (88.0)	66 (79.5)	0.20
Viral cirrhosis	25 (86.2)	24 (82.8)	20 (80.0)	69 (83.1)	0.92
Number of TACE	4.1 ± 4.2	3.1 ± 1.7	2.9 ± 2.3	3.4 ± 3.0	0.51
Diagnosis period of HCC (months)	36.7 ± 32.0	31.9 ± 26.8	33.8 ± 33.3	34.1 ± 30.4	0.80
Past treatment of HCC					0.10
Chemotherapy	2 (6.9)	0 (0.0)	0 (0.0)	2 (2.4)	
Operation	21 (72.4)	20 (69.0)	10 (40.0)	51 (61.4)	
Radiation	1 (3.4)	3 (10.3)	4 (16.0)	8 (9.6)	
None	7 (24.1)	6 (20.7)	11 (44.0)	24 (28.9)	

*Variables were written by Mean ± SD, or N (%)

*Drop-out (n=7) ;Withdrew consent: n=4, ;Protocol violation: n=3

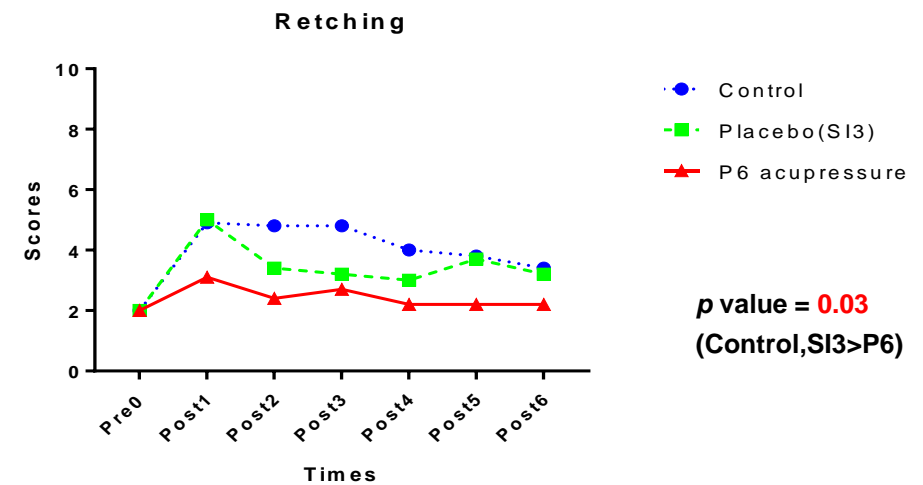
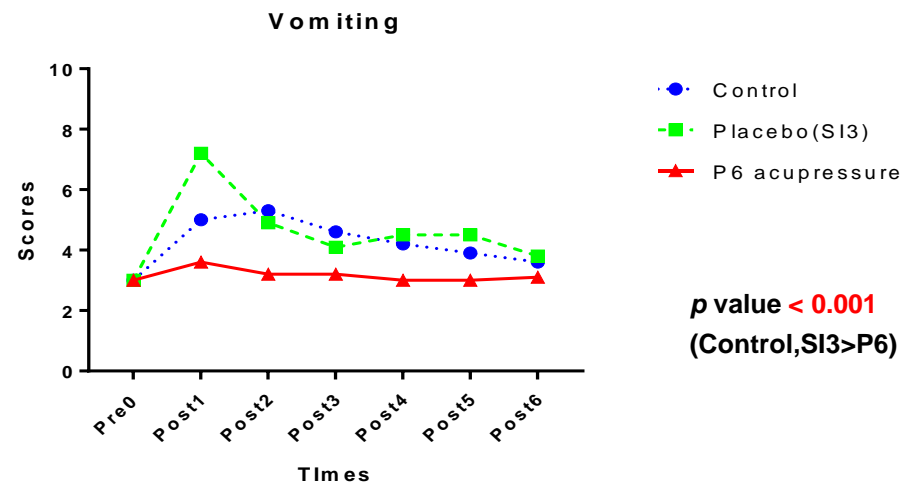
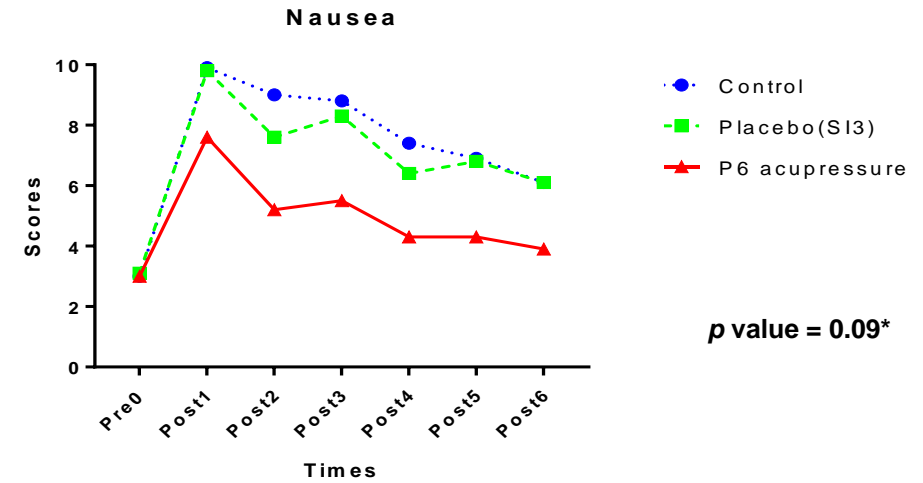
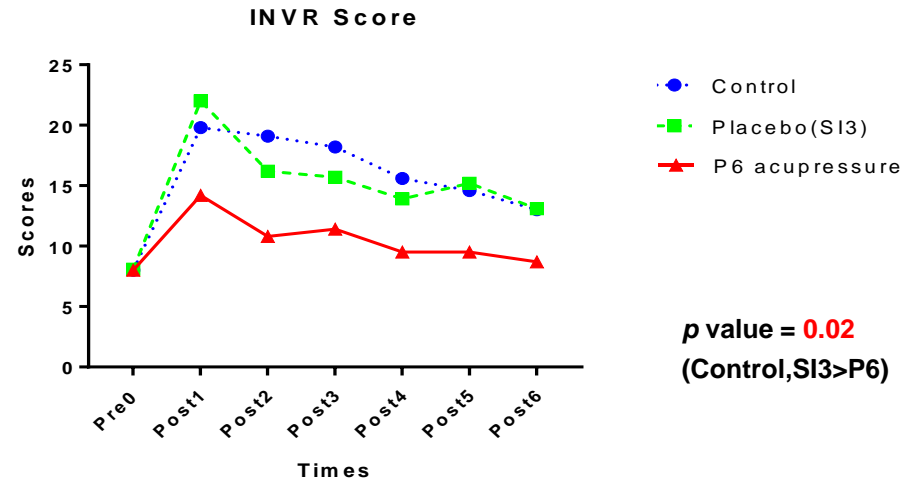
- Homogeneity test of the dependent variables (N=83)**

Dependent variables	Control (n=29)	Placebo(SI3) (n=29)	P6 acupressure (n=25)	<i>p</i> value*
	M±SD	M±SD	M±SD	
INVR score	8.0 ± 0.0	8.1 ± 0.6	8.0 ± 0.0	0.39
Nausea	3.0 ± 0.0	3.1 ± 0.6	3.0 ± 0.0	0.39
Vomiting	3.0 ± 0.0	3.0 ± 0.0	3.0 ± 0.0	1.00
Retching	2.0 ± 0.0	2.0 ± 0.0	2.0 ± 0.0	1.00

**p* values were calculated by Kruskal-Wallis test

*INVR measurements was used for the pretest

RESULT (2)



CONCLUSION and SUGGESTION

- **P6 acupressure demonstrated substantial anti-emetic effects for the patients who underwent TACE for liver cancer.**
- **This study is the only one nursing research that proved the effect of P6 acupressure for liver cancer patients after the TACE procedure.**
- **This study would be a basis for applying P6 acupressure to useful nursing interventions.**
- However, randomized controlled trials should be considered.
- Various acupoint stimulation types should be verified to find the most effective method.
(i.g. wrist band, acupuncture, manual acupressure, etc.)

THANK YOU 😊



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Asan Medical Center

