

Table1: Characteristics of Subjects

	Hemiplegic subjects (n=11)	
	Mean	SD
Age(years)	68.8	11.6
Gender(%male)	36.4	
Height(cm)	148.5	13.3
Weight(kg)	53.0	7.6
BMI	24.3	3.9
Severity of paralysis	Br. stage Hand 2—4	

Br stage : Brunstrom stage

Table 2 : Friedman test results for maximum extension angle of the wrist joint and pain during electrical stimulation (n=11)

	Frequency	Median	Mean Rank	Chi-square	p-value
Maximum extension angle of the wrist joint (°)	35Hz	25.83	1.75	1.500	0.472
	70Hz	28.31	2.13		
	120Hz	27.90	2.13		
Pain	35Hz	3.50	1.69	3.652	0.161
	70Hz	5.00	2.06		
	120Hz	5.00	2.25		

*P value statistically significant at the $P < 0.05$

Table 3 : The outcome of whether participants answered that they might be able to move their paralyzed hand, in relation to the frequency during electrical stimulation and other frequencies (Chi-square test results)

Frequency	Movement (Yes)	Movement (No)	Chi-Square	p-value
35Hz	3	8	11.727	0.003
70Hz	9	2		
120Hz	10	1		

Movement (Yes)” indicates the number of respondents who answered ‘can move’ and ‘cannot move’. Movement (No) is the number of respondents who answered “cannot move.

Table 4 : The association between the binary conditions for whether or not the participants answered that they might be able to move their paralyzed hand, with the variables dichotomized using the median, and the outcome presented using Chi-square test results and Bayesian factor

Factor(Median)	Chi-Square (χ^2) Value	Chi-Square p-value	Bayesian BF ₁₀	Posterior Mean (95% CI)
BMI(23.5)	0.020	0.887	0.733	0.196 (-2.34, 2.74)
Skeletal Muscle Mass(22.1)	0.020	0.887	0.733	0.205 (-2.37, 2.77)
Body Fat Percentage (33.0)	2.037	0.154	1.467	-1.698 (-4.766, 1.37)
Months Since Onset(69.0)	0.020	0.887	0.733	0.013 (0.00, 0.02)
Age(67.0)	0.020	0.887	0.733	0.187 (-2.36, 2.73)
Severity of hand paralysis (4)	0.196	0.658	0.786	0.621 (-1.93, 3.18)
Maximum Frequency(3.0)	2.037	0.154	1.467	-1.708 (-4.79, 1.38)
Maximum extension angle of the wrist joint (38.8)	2.933	0.087	2.200	2.142 (-0.99, 5.27)

*P value statistically significant at the P<0.05

The values in parentheses represent the 95% Confidence Interval (95% CI).

Table5 : Intersection of Stable Movement and Tolerable Pain by Frequency in Each Case

ID	Severi ty of hand paraly sis	35H z Pain	70H z Pain	120H z Pain	35Hz Moveme nt	70Hz Moveme nt	120Hz Moveme nt	Intersectio n (Pain + Movement)
1	4		X	X		X	X	70Hz,120Hz
2	4	X	X				X	
3	3	X						
4	4	X				X	X	70Hz
5	4	X	X			X		
6	3	X				X	X	
7	4						X	70Hz
8	3	X	X			X		
9	2	X	X	X		X		
10	4	X	X	X		X	X	70Hz,120Hz
11	4	X	X	X			X	120Hz

X for pain means the mean value is less than NRS 7.

X for Movement means the variance of the extension angle is less than 1 Standard Diviation.

The intersection is represented by " X" frequencies for both pain and movement.

Severity of hand paralysis means Br.stage of hand

