

Table 6: The association between stroke characteristics and the post-stroke cognitive impairment among Lebanese stroke survivors.

	3 months post stroke			6 months post stroke			12 months post stroke		
	No cognitive impairment	Cognitive impairment	p-value	No cognitive impairment	Cognitive impairment	p-value	No cognitive impairment	Cognitive impairment	p-value
Aphasia at time of stroke occurrence									
No	19 (61.3)	19 (20.7)	<0.001	27 (42.2)	10 (17.9)	0.005	30 (41.1)	7 (15.9)	0.003
Yes	12 (38.7)	73 (79.3)		37 (57.8)	46 (82.1)		43 (58.9)	37 (84.1)	
Duration between symptoms onset and admission to hospital									
≤ 3 hours	19 (61.3)	79 (85.9)	0.010*	51 (79.7)	44 (78.6)	NS	56 (76.7)	36 (81.8)	NS
3 to 6 hours	5 (16.1)	5 (5.4)		5 (7.8)	5 (8.9)		6 (8.2)	4 (9.1)	
≥ 6 hours	7 (22.6)	8 (8.7)		8 (12.5)	7 (12.5)		11 (15.1)	4 (9.1)	
Length of hospital stay									
1 to 3 days	11 (35.5)	6 (6.5)	0.001	16 (25.0)	1 (1.8)	<0.001	15 (20.5)	1 (2.3)	0.029
4 to 7 days	12 (38.7)	43 (46.7)		28 (43.8)	25 (44.6)		33 (45.2)	20 (45.5)	
8 to 15 days	7 (22.6)	34 (35.9)		18 (28.1)	21 (37.5)		20 (27.4)	18 (40.9)	
> 15 days	1 (3.2)	11 (10.9)		2 (3.1)	9 (16.1)		5 (6.8)	5 (11.4)	
Stroke types									
Ischemic stroke	31 (100.0)	87 (94.6)	NS	61 (95.3)	54 (96.4)	NS	70 (95.9)	42 (95.5)	NS
Hemorrhagic stroke	0 (0.0)	5 (5.4)		3 (4.7)	2 (3.6)		3 (4.1)	2 (4.5)	
Stroke location									
Right hemisphere	13 (41.9)	34 (37.0)	NS	25 (39.1)	22 (39.3)	NS	28 (38.4)	17 (38.6)	0.006*
Left hemisphere	16 (51.6)	42 (45.7)		34 (53.1)	22 (39.3)		40 (54.8)	15 (34.1)	
Bilateral hemisphere	1 (3.2)	8 (8.7)		1 (1.6)	7 (12.5)		1 (1.4)	7 (15.9)	
Brainstem	0 (0.0)	1 (1.1)		1 (1.6)	0 (0.0)		0 (0.0)	1 (2.3)	
Cerebellum	1 (3.2)	7 (7.6)		3 (4.7)	5 (8.9)		4 (5.5)	4 (9.1)	
Stroke severity at 3 months post stroke									
Minor stroke	15 (48.4)	20 (21.7)	0.004	29 (45.3)	6 (10.7)	<0.001	30 (41.1)	4 (9.3)	<0.001
Mild stroke	12 (38.7)	37 (40.2)		30 (46.9)	18 (32.1)		31 (42.5)	16 (36.4)	
Moderate stroke	4 (12.9)	14 (15.2)		5 (7.8)	12 (21.4)		9 (12.3)	8 (18.2)	
Severe stroke	0 (0.0)	21 (22.8)		0 (0.0)	20 (35.7)		3 (4.1)	16 (36.4)	
Stroke severity at 6 months post stroke									
Minor stroke				52 (81.3)	16 (28.6)	<0.001	53 (72.6)	13 (29.5)	<0.001*
Mild stroke				12 (18.8)	19 (33.9)		15 (20.5)	16 (36.4)	
Moderate stroke				0 (0.0)	10 (17.9)		3 (4.1)	7 (15.9)	
Severe stroke				0 (0.0)	11 (19.6)		2 (2.7)	8 (18.2)	
Stroke severity at 12 months post stroke									
Minor stroke							63 (87.5)	17 (38.6)	<0.001*
Mild stroke							8 (11.1)	16 (36.4)	
Moderate stroke							1 (1.4)	4 (9.1)	
Severe stroke							0 (0.0)	7 (15.9)	
Degree of disability at 3 months post stroke									
Mild disability (mRS=0-2)	25 (80.6)	21 (22.8)	<0.001	41 (64.1)	5 (8.9)	<0.001	39 (53.4)	6 (13.6)	<0.001
Moderate to severe disability (mRS ≥3)	6 (19.4)	71 (77.2)		23 (35.9)	51 (91.1)		34 (46.6)	38 (86.4)	
Degree of disability at 6 months post stroke									
Mild disability (mRS=0-2)				53 (82.8)	12 (21.4)	<0.001	52 (71.2)	12 (27.3)	<0.001
Moderate to severe disability (mRS ≥3)				11 (17.2)	44 (78.6)		21 (28.8)	32 (72.7)	

Degree of disability at 12 months post stroke									
<i>Mild disability (mRS=0-2)</i>							60 (82.2)	16 (36.4)	<0.001
<i>Moderate to severe disability (mRS ≥3)</i>							13 (17.8)	28 (63.6)	
Quality of life 3 months post stroke	Mean (±SD)	Mean (±SD)		Mean (±SD)	Mean (±SD)		Mean (±SD)	Mean (±SD)	
<i>PCS</i>	12.68 (± 1.25)	13.00 (± 1.46)	NS	12.56 (± 1.32)	13.27 (± 1.44)	0.006	12.64 (± 1.32)	13.25 (± 1.54)	0.033
<i>MCS</i>	16.71 (± 1.46)	16.30 (± 1.88)	NS	16.56 (± 1.77)	16.25 (± 1.85)	NS	16.51 (± 1.78)	16.25 (± 1.91)	NS
Quality of life 6 months post stroke	Mean (±SD)	Mean (±SD)		Mean (±SD)	Mean (±SD)		Mean (±SD)	Mean (±SD)	
<i>PCS</i>				12.38 (± 1.52)	12.52 (± 1.53)	NS	12.31 (± 1.47)	12.57 (± 1.61)	NS
<i>MCS</i>				16.44 (± 1.57)	16.03 (± 1.75)	NS	16.31 (± 1.70)	16.14 (± 1.66)	NS
Quality of life 12 months post stroke	Mean (±SD)	Mean (±SD)		Mean (±SD)	Mean (±SD)		Mean (±SD)	Mean (±SD)	
<i>PCS</i>							12.32 (± 1.57)	12.36 (± 1.69)	NS
<i>MCS</i>							16.90 (± 2.56)	16.23 (± 2.09)	NS