

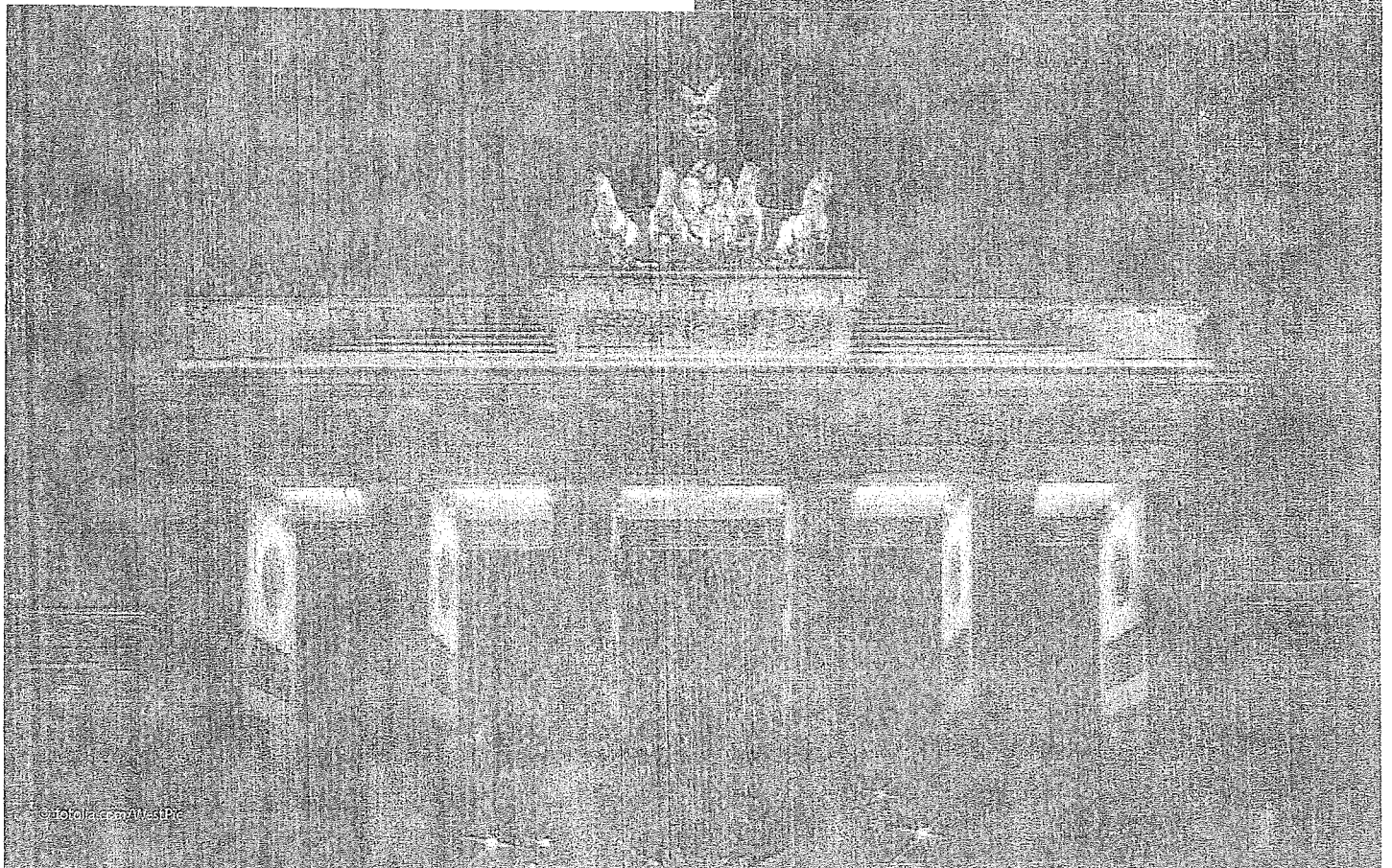
PROGRAMME



9th World Congress of the International Society of Physical and Rehabilitation Medicine

19-23 June 2015

Maritim Hotel Berlin

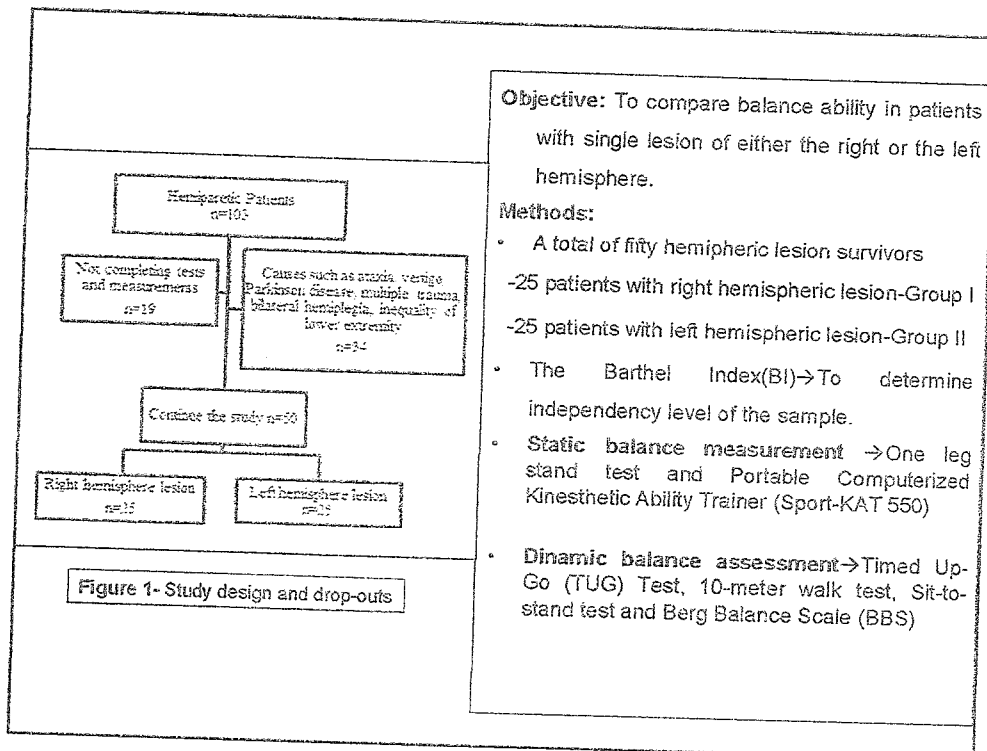


COMPARISON OF BALANCE IN HEMIPARETIC PATIENTS WITH RIGHT AND LEFT HEMISPHERIC LESION

Ayşe ÜNAL, PT. MSc.,
Filiz ALTUĞ, Assoc. Prof.,
Erdoğan KAVLAK, Asist. Prof.,
Uğur CAVLAK, Prof.

Pamukkale University,
School of Physical Therapy and Rehabilitation,
Denizli/Turkey

aunzl@pau.edu.tr



Results: The independency level of two groups was similar. The results showed that the patients with left hemispheric lesion had better scores for balance measurements ($p \leq 0.05$).

Table 1- Comparison of Demographic and Clinical Characteristics

Variable	Group I (n=25)		Group II (n=25)		P-value
	Min-Max	X ± SD	Min-Max	X ± SD	
Age (years)	23-82	50.54±19.20	21-61	55.38±11.19	0.392
Height (cm)	1.54-1.80	1.67±0.20	1.49-1.74	1.65±0.50	0.340
Weight (kg)	48-89	72.28±10.17	51-87	71.40±9.21	0.627
Sex (gender)	18:08 31:24	25.53±3.21	21:61 30:02	26.11±2.47	0.581
Duration of Rehabilitation (months)	3-28	10.55±7.59	3-33	9.36±7.73	0.397
Affected limb sides	75:100 100	67.40±19.00	75:100 100	67.40±19.00	0.932

*Mann-Whitney U test

Table 2- Comparison of Static Balance Results

Variable	Group I (n=25)		Group II (n=25)		P-value
	Min-Max	X ± SD	Min-Max	X ± SD	
Shank-hug Abdom test	7-21	7.02±2.20	1-15	9.02±0.60	0.160
Eye open test (sec)	0-27	4.32±2.11	1-10	6.30±0.51	0.146
Eye closed test (sec)	12-56	17.56	1-75	1	0.146

*Mann-Whitney U test

Table 3- Comparison of SportSAY 300 Balance Scores

Dynamic Balance Tests	Group I (n=25)		Group II (n=25)		P-value	Statistical Test	Variables						P-value	
	Min-Max	X ± SD	Min-Max	X ± SD			Min-Max	X ± SD	Min-Max	X ± SD	Min-Max	X ± SD		
														Min-Max
Static Balance	3-10	10.23±0.20	0-10	10.16	0-10	0.001	Right	41.00	460.00-7	303.00	180.00	453.20±27	453.00	0.002
Dynamic Balance	2-10	10.23±0.20	0-10	10.16	0-10	0.001	Left	70.00	620.00-5	596.00	180.00	303.00±25	250.00	0.003
Dynamic Balance	2-10	10.23±0.20	0-10	10.16	0-10	0.001	Front	37.00	440.20±19	300.00	270.00	270.20±37	270.00	0.003
Dynamic Balance	2-10	10.23±0.20	0-10	10.16	0-10	0.001	Back	120.00	620.00-4	524.00	104.00	501.00±24	450.00	0.290

*Mann-Whitney U test, **Independent's Test

CONCLUSION

The patients with lesion of either the right or the left hemisphere perform balance ability poorly.

Hemispheric lesion location is related to balance disturbances in brain lesion survivors.

There is effect of lesion location on severity of balance impairments.

This study is important to create data bank for health professionals dealing with this issue.

Rehabilitation programs should be revised in the light of the data obtained.

- PA231 The Effect of Lumbar Support on the Ultrasound Measurements of Trunk Muscles – a Single-Blinded Randomized Controlled Trial
Pardis Noormohammadpour (Tehran/IR)
- PA232 The Connection between the Inflammatory Syndrome and Clinical Symptoms in Patients with Low Back Pain
Sarah Adriana Nica (Bucharest/RO)
- PA233 Effect of Stabilization Exercise on Cross-Sectional Area of Lumbar Multifidus Muscle in Patients with Chronic Low Back Pain
Ashiyat Akodu (Lagos/NG)
- PA234 Work-Related Fear Avoidance during Back Pain Rehabilitation
Gerda Reichel-Vacariu (Vienna/DE)
- PA235 Conventional Rehabilitation Program Versus Isokinetic Program in Chronic Low Back Pain
Ali Mrabet (Tunis/TN)
- PA236 Comparison of Clinical Efficacy between Interlaminar and Transforaminal Epidural Injection in Patients with Axial Pain Due to Cervical Disc Herniation
Jung Hw̄an Lee (Seoul/KR)
- PA237 Effects of Infra Red Radiation and Short Wave Diathermy on Chronic Low Back Pain
Md. Abdus Shakoor (Dhaka/BD)
- PA238 Effect of a Preoperative Cognitive-Behavioural Intervention on in-Hospital Pain, Mobility, Analgesic Intake and Discharge in Lumbar Spinal Fusion Patients
Nanna Rolving (Aarhus/DK)
- PA240 Abnormal Flexor Carpi Radialis H-Reflex as a Specific Indicator
Yu Zhu (Syracuse, NY/US)
- PA242 Treatment of the Idiopathic Scoliosis with Brace and Physiotherapy
Hajrie Hundozi (Pristina/AL)
- PA1407 Chronic Unspecific Back Pain Revealed as Specific One by Enlarged Orthopedic Assessments Combined with Manual Therapy. Clinical Observations
Anselm Model (Freiburg/DE)

20 June

EPS06 • A.3. Neurological and Mental Health Conditions (I)

- Terminal Chair 8 (Industrial Exhibition, Gallery)
Maher Al Jadid (Riyadh/SA)
- PA265 Aphasia and Neglect Due to Acute Thalamic Hemorrhage
Aiko Osawa (Obu City/JP)
- PA266 Addition of Botulinum Toxin Type A to a Repetitive Facilitative Exercise Program for Upper Paretic Limb in Chronic Stroke – a randomized Controlled Trial
Akihiko Hokazono (Kirishima/JP)
- PA267 Barthel Index as a Physical Activity Measure
Alice De Almeida (Bordeaux/FR)
- PA268 Construction of a Practical Motion Analysis System to Study Reaching in Patients with Hemiparetic Stroke
Atsuko Nishimura (Tokyo/JP)
- PA269 Comparison of Balance in Hemiparetic Patients with Right and Left Hemispheric Lesion
Ayşe Unal (Denizli/TR)

Master Journal List JOURNAL LIST

Search terms: *JOURNAL OF REHABILITATION MEDICINE

Total journals found: 1

1. JOURNAL OF REHABILITATION MEDICINE

Monthly ISSN: 1650-1977

FOUNDATION REHABILITATION INFORMATION, TRADGARDSGATAN 14, UPPSALA,
SWEDEN, SE-753 09

1. Science Citation Index Expanded
2. Current Contents - Clinical Medicine
3. BIOSIS Previews