

Table 1) Demographic characteristics of the subjects

Subject No.	Age (Year)	Weight (kg)	Height (cm)	Reason of Amputation	Using Prosthesis	Prosthesis Side
1	45	77.8	175	Burning	Pedalini, with a Saddle Pad	Left
2	49	79.8	174	Trauma	Modular with Axis Single Paw, Ottobock Joint, Ottobock Paw	Left
3	48	60.2	170	Trauma	Ottobock Single Paw	Right
4	49	80.5	167	Trauma	Prosthesis with Axis Single Paw	Left
5	47	65.0	170	Trauma	Prosthesis with Sach and Cuff Strap Paw	Left
6	43	69.3	174	Trauma	Modular Sach Paw	Left
7	51	86.3	176	Trauma	Axis single, Ottobock	Right
8	52	88.3	176	Accident	Prosthesis with Sach and Cuff Strap Paw	Right

Table 2) Comparison of the mean of research variables in the healthy and prosthesis legs during walking

Variables	Healthy Leg	Prosthesis Leg
Time-Spatial Parameters		
Step Length (m)	1.21±0.13	1.17±0.14
Step Duration (s)	1.29±0.72	1.33±0.91
Speed (m/s)	9.12±1.36	9.08±1.45
Cadens (steps per minute)	91.00±6.00	93.00±6.00
Percentage of time of Stent	65.69±2.86	62.33±1.86
The percentage of Oscillation Time	33.47±2.92	37.13±2.57
Joint Force (Newton)		
Anterior-Posterior Thigh Joint	791.16±525.77	768.77±451.47
Vertical Thigh Joint	2925.94±1609.34	2143.81±1228.67
Internal-External Thigh Joint	168.72±88.61	141.64±41.14
Anterior-Posterior Knee Joint	3335.47±196.07	184.29±176.07
Vertical Knee Joint	2254.83±1332.27	2157.70±1552.36
Internal-External Knee Joint	102.73±93.27	67.13±30.20
Lower Limb Selective Muscle Force (Newton)		
Gluteus Medius 1	765.40±230.20	666.70±114.50
Gluteus Minimus 1	164.60±95.90	105.10±79.20
Semitendinosus	158.30±69.50	113.30±103.50
Semimembranosus	585.30±286.00	504.10±185.70
Biceps (Long Head)	310.90±95.20	268.50±58.30
Biceps (Short Head)	484.70±233.30	390.50±212.50
Adductor Longus	103.70±31.50	118.80±47.10
Adductor Bervis	50.60±31.50	46.20±24.26
Adductor Magnus 1	103.70±41.80	93.30±26.70
Tensor Fasciae Latae	145.50±78.70	107.60±57.50
Gluteus Maximus 1	186.20±134.90	149.80±111.10
iliacus	569.00±438.30	426.10±225.20
Psoas	442.40±219.10	430.90±157.70
Quadratus Femoris	93.60±51.90	100.90±40.70
Gemellus	32.20±12.20	28.30±12.90
Piriformis	209.10±80.80	169.20±71.30
Vastus Intermedias	245.90±133.40	164.10±80.90
Vastus Medialis	305.70±155.60	246.40±103.60
Vastus Lateralis	508.30±295.30	408.10±181.80
Rectus Femoris	493.00±171.40	486.50±162.60
Total Force Generated on Different Plates (N)		
Knee Extensor	1552.90±655.70	1305.00±465.50
Thigh Extensor	2280.70±741.40	1924.70±446.58
Thigh Abductor	2280.70±741.45	1714.80±446.80
Thigh Adductor	325.30±125.10	326.40±112.30
Flexor Thigh	1282.30±671.90	1045.40±424.10