

Author Year Country Research Design Score Total Sample Size	Methods	Outcome
Calabrò et al. 2022 Italy Case control (pre-post for the experimental group and retrospective for the control [matched group]) Level 3 N = 20	Population: - Experimental group (n = 10): Participants with SCI and at least a palpable or visible contraction of ankle plantar and dorsal flexor muscle groups, and without severe ankle instability; 6 males and 4 females; mean ($\pm$ SD) age 39 ($\pm$ 13) years; level of injury C5 (n = 2), C6 (n = 1), C7 (n = 1), T6 (n = 1), T7 (n = 3), and T10 (n = 1); AIS C (n = 5) and AIS D (n = 5); and mean ($\pm$ SD) time since injury 8 ($\pm$ 4) months. - Control group (n = 10): Participants who previously underwent conventional ankle rehabilitation were retrospectively matched: 5 males and 5 females; mean ($\pm$ SD) age 39 ($\pm$ 7) years; level of injury C5 (n = 1), C6 (n = 2), T1 (n = 1), T2 (n = 2), T5 (n = 2), T6 (n = 1), and T9 (n = 1); AIS C (n = 4) and AIS D (n = 6); and mean ($\pm$ SD) time since injury 9 ($\pm$ 3) months. Treatment: All persons underwent an intensive treatment (6 days weekly) consisting of FES of lower limb muscles (a daily 30-min session), conventional physiotherapy (two 1-h sessions daily), and occupational therapy (a 1-h session, three times weekly) for 4 weeks. Additionally: - The experimental group received robot-aided ankle rehabilitation using Hunova® device for a one-hour daily session. - The control group underwent an equal amount of conventional ankle rehabilitation. Outcome Measures: 10MWT; 6MWT; were assessed at baseline and after the trial completion.	- None of the participants reported any side effects during the rehabilitative sessions. - None of the persons achieved a complete recovery of walking function. However, there were more significant improvements in experimental group (vs. the control group) for: 10MWT: experimental group from 0.43 ± 0.11 to 0.51 ± 0.09 m/s, $p = 0.006$; control group from 0.4 ± 0.13 to 0.45 ± 0.12, $p = 0.01$; group-comparison $p = 0.006$. 6MWT: experimental group from 231 ± 13 to 274 ± 15 m, $p < 0.001$; control group from 236 ± 13 to 262 ± 15 m, $p = 0.003$; group-comparison $p = 0.01$.