

**Table 2:** Characteristics of studies indicating similar effects of treadmill gait training and conventional gait training.

References	RCS	Subjects: N/Mean Age/ Sex(females-F/males-M)	Interventions and training modalities	Main outcomes measures
Franceschini et al, 2009 <sup>53</sup>	Yes	N=97 (Exp =52; Con =45) Age =Exp 71; Con =66 Sex =M50/F47 Time since stroke (days) =15.5	Exp =BWSTT + conventional rehabilitative treatment Frequency =60 min x 5/wk x 4/wk Con =conventional treatment with overground gait training Frequency =60 min x 5/wk x 4/wk	Walking ability =FAC; Functional Independence =Barthel Index; Speed =10-m walk test; Capacity =6-min Walk Test Motor impairment =Motricity Index, Trunk Control test Gait =Walking Handicap Scale Assessments Follow-up =0, 4, 6, 24 wk
Duncan et al, 2011 <sup>26</sup>	Yes	N =408 (Exp =282; Con =126) Age =Exp 62; Con 63 Sex =M224/F184 Time since stroke (days) =63.5	Exp =BWSTT Frequency =90 min x 3/wk x 12-16/wk Con =home exercise program (managed by a physical therapist, task-specific walking program enhancing flexibility, range of motion in joints, strength of arms and legs, co-ordination, and static and dynamic balance) Frequency =90 min x 3/wk x 12-16/wk	Proportion of participants in each group who had an improvement in functional walking ability one year after stroke; Speed =10-m walk test; Capacity =6-min Walk Test Activity monitor =number of steps walked per day Self-reported perceived recovery =SIS; Lower extremity motor function =FMA; Balance =BBS; Self-reported balance confidence =ABC; Follow-up =0, 24, 48 wk
Olawale et al, 2011 <sup>47</sup>	Yes	N =60 (Exp =20; Con1 =20; Con2 =20) Age =Exp 56.8; Con1 =56.8; Con2 =57.2 Sex =M34/F26 Time since stroke (months) =10.4	Exp =treadmill walking exercise training + conventional physiotherapy (stretching, strength, balance) Frequency treadmill =25 min x 3/wk x 12/wk Conventional physiotherapy =35 min x 3/wk x 12/wk Con1 = overground walking exercise training + conventional physiotherapy (stretching, strength, balance); Frequency =60 min x 3/wk x 12/wk; Con2 =conventional physiotherapy (stretching, strength, balance); Frequency =60 min x 3/wk x 12/wk	Speed =10-m walk test Capacity =6-min Walk Test Follow-up =0, 4, 8, 12 wk
Globas et al, 2012 <sup>48</sup>	Yes	N =36 (Exp =18; Con =18) Age =Exp 69; Con =69 Sex =M29/F7 Time since stroke (months) =65	Exp =high-intensity aerobic treadmill exercise Frequency =30 to 50 min x 3/wk x 12/wk Con =conventional physiotherapy (passive, muscle tone-regulating exercises for the upper and lower extremities with elements of balance training) Frequency =60 min x 3/wk x 12/wk	Peak VO <sub>2</sub> =during maximum effort treadmill walking Capacity =6-min Walk Test; Self-selected and maximum walking speeds =10-m walk test; Functional leg strength =5CR; Balance =BBS; Self-rated mobility and activities for daily living function =RMI; Physical and mental health measured =SF-12; Follow-up =0, 12 wk
Hoyer et al, 2012 <sup>52</sup>	Yes	N =60 (Exp =30; Con =30) Age =Exp 52; Con =52 Sex =M38/F22 Time since stroke (days) =97.5	Exp =treadmill therapy (harness combined with a suspension system releasing body weight) + traditional gait training Frequency1 =30 min x 5/wk x 4/wk; Frequency2 =30 min x 1-2/wk x 6/wk; Con =traditional gait training + functional training (selective training of the trunk and extremities, balance and transfer, customised to individual deficits and needs); Frequency =60 min x 5/wk x 10/wk Exp1 =treadmill training with optic flow; Frequency =30 min x 3/wk x 4/wk; Exp2 =treadmill training; Frequency =30 min x 3/wk x 4/wk	Walking ability =FAC, EU-walking scale Functional Independence =FIM Speed =10-m walk test Capacity =6-min Walk Test Follow-up =0, 4, 6, 10, 12 wk
Kang et al, 2012 <sup>49</sup>	Yes	N =30 (Exp1 =10; Exp2 =10; Con =10) Age =Exp 56; Con =56 Sex =M16/F14 Time since stroke (months) =14.5	Con =conventional physiotherapy (general stretching added range of motion exercises in the less and more affected sides of the trunk, arms and legs for the same time); Frequency = 30 min x 3/wk x 4/wk	Speed during upright mobility =TUG Balance =FRT Speed =10-m walk test Capacity =6-min Walk Test Follow-up =0, 4 wk
Bonnyaud et al, 2013 <sup>51</sup>	Yes	N =26 (Exp =13; Con =13) Age =Exp 50.1; Con =50.3 Sex =M19/F7 Time since stroke (years) =5	Exp =single treadmill training session Frequency =20 min x 1 session Con =single overground training session Frequency =20 min x 1 session	Spatiotemporal, kinematic, kinetic gait parameters =three-dimensional gait analysis (Motion Analysis System) Follow-up =0, immediately after the training and after a 20-minute rest
Bonnyaud et al, 2014 <sup>50</sup>	Yes	N = 56 (Exp = 28; Con = 28) Age = Exp 52.5; Con = 49.7 Sex = M42/F14 Time since stroke (years) = 6	Exp =single treadmill training session Frequency =20 min x 1 session Con =single overground training session Frequency =20 min x 1 session	Speed during upright mobility =TUG Follow-up =0, immediately after the completion of each session
Middleton et al, 2014 <sup>54</sup>	Yes	N =43(Exp =23; Con =20) Age =Exp 61.39; Con 60.70 Sex =M30/F14 Time since stroke (years) =3.3	Exp =BWSTT + balance activities + strength, coordination, ROM activities Frequency = 80 min x 5/wk x 2/wk Con =overground walking + balance activities + strength, coordination, ROM activities Frequency =180 min x 5/wk x 2/wk	Spatial parameters of gait =GAITRite system (step length differential); Self-selected and fast walking speed = 3-meter walk test; Capacity =6-min Walk Test; Balance =BBS Self-reported balance confidence =ABC; Balance =single limb stance; Speed during upright mobility =TUG Ability to adapt to changing task demands during gait =DGI Lower extremity motor function =FMA; Self-reported perceived recovery =SIS, percent perceived recovery Follow-up =0, 12 wk
Hollands et al, 2015 <sup>50</sup>	Yes	N =56 (Exp1 =18; Exp2 =19; Con =19) Age =Exp1 =59; Exp2 =56.1; Con =60 Sex =M33/F23 Time since stroke (months) =8.1	Exp1 =treadmill based visual cue training Exp2 =Overground visual cue training Frequency =60 min x 2/wk x 8/wk Con =usual care (task-specific-practice of walking and/or components of gait, exercises for strength balance and coordination; and/or prescription of assistive devices) Frequency =60 min x 2/wk x 8/wk	Walking speed, spatial and temporal symmetry of gait = GaitRite system; Time to turn 180°; Adaptability of gait = success rate in target stepping; Lower extremity motor function =FMA; Falls risk =Falls Efficacy Scale Quality of life =SF-12; Mobility =FAC Speed during upright mobility =TUG Follow-up =0, 8, 12 wk
Srivastava et al, 2016 <sup>46</sup>	Yes	N =45 (Exp1 =15; Exp2 =15; Con =15); Age =Exp 58.7; Con = 57.7 Sex =M36/F9 Time since stroke =16.51 months	Exp1 =treadmill training; Exp2 =BWSTT Frequency = 30 min x 5/wk x 4/wk Con = overground gait training Frequency = 30 min x 5/wk x 4/wk	Speed = 10-m walk test; Capacity = 6-min Walk Test Level of disability = SSS Walking ability = FAC Follow-up = 0, 4, 12 wk

Baer et al, 2018 <sup>33</sup>	Yes	<p>N =77 (Exp =39; Con =38)  Age =Exp 71.23; Con =74.5  Sex =M40/F37  Time since stroke (days) =41.19</p>	<p>Exp =treadmill training + normal gait re-education (assisted / independent activities such as weight transfer, stepping with either leg, walking, step ups and stairs, movement control, strengthening)  Frequency =8-16 min x 2/wk x 8/wk; Con =normal gait re-education (assisted/independent activities such as weight transfer, stepping with either leg, walking, step ups and stairs, movement control and strengthening); Frequency = 8-16 min x 2/wk x 8/wk</p>	<p>Motor impairment, level of disability =RMI, MAS  Walking ability =FAC  Speed =10-m walk test  Capacity =6-min Walk Test  Functional Independence =Barthel Index  Self-reported perceived recovery =SIS  Follow-up =0, 8, 24 wk</p>
--------------------------------	-----	---	--	---

RCS: Randomized controlled study, Exp: experimental group, Con: control group, BWSTT: body weight supported treadmill training, FAC: Functional Ambulation Category, FMA: Fugl-Meyer assessment scale, BBS: Berg Balance Scale, DGI: Dynamic Gait Index, ABC: Activities-specific Balance Confidence scale, TUG: Timed Up and Go test, ROM: range of motion, SIS: Stroke Impact Scale, 5CR: 5-Chair-Rise, RMI: Rivermead Mobility Index, SF-12: Medical Outcomes Study Short Form 12, FRT: Functional Reach Test, FIM: Functional Independence Measure, NIH: National Institutes of Health, MAS: Motor Assessment Scale, FAI: Frenchay Activities Index, SSS: Scandinavian Stroke Scale.