Table 1: Characteristics of studies indicating advantages of treadmill training in comparison to conventional gait training.

References	RCS	Subjects: N/Mean Age/Sex(females-F/ males-M)	Interventions and training modalities	Main outcomes measures
Yen et al, 2008 ²⁹	Yes	N = 14 (Exp = 7; Con = 7) Age = Exp 57.30; Con 56.05 Sex = M9/F5 Time since stroke (years) = 1.96	Exp =BWSTT + general physical therapy (stretching, strengthening, balance, and overground walking training) Frequency general physical therapy =50 min x 2-5/wk x 4/wk Frequency BWSTT =30 min x 3/wk x 4/wk Con = general physical therapy (stretching, strengthening, balance, and overground walking training)	Corticomotor activity =focal transcranial magnetic stimultion, motor threshold, map size, the motor map for the tibialis anterior and abductor halluces muscles; Balance =BB Spatial parameters of gait =GAITRite system (walking speed, cadence, step length) Follow-up =0, 4 wk
Yang et al, 2010 ²⁸	Yes	N = 18 (Exp =9; Con =9) Age = Exp 57.15; Con 54.95 Sex = M10/F8 Time since stroke (years) = 1.4	Frequency =50 min x 2-5/wk x 4/wk Exp = BWSTT + general exercise program (stretching, strengthening, endurance, and overground walking training) Frequency BWSTT =30 min x 3/wk x 4/wk Frequency general exercise program =20 min x 3/wk x 4/wk Con = general exercise program ((stretching, strengthening, endurance, and overground walking training)	Corticomotor activity =motor threshold and map size of the abductor hallucis muscle in the ipsilesional hemisphere Lower extremity motor function =FMA Follow-up =0, 4 wk
Dean et al, 2010 ⁴⁰	Yes	N = 126 Age = Exp 70; Con 71 Sex = M71/F55 Time since stroke (week) = 2.4	Frequency =50 min x 3/wk x 4/wk Exp = BWSTT + assisted overground walking Frequency =30 min x 5/wk until discharge Con =assisted overground walking Frequency =30 min x 5/wk until discharge	Ability to walk independently =15 m, no aid Speed =10-m Walk Test (comfortable, no aids) Capacity =6-min Walk Test Follow-up =1/wk until discharge, 26 wk
Kuys et al, 2011 ³⁹	Yes	N = 30 (Exp = 15; Con = 15) Age = Exp 63; Con 72 Sex = M12/F18 Time since stroke (months) = 1.7	Exp =high-intensity treadmill training + usual physiotherapy Frequency =30 min x 3/wk × 6 wk Con =usual physiotherapy	Speed =10-m walk test Distance =6-min walk test Follow-up =0, 6, 18 wk
MacKay-Lyons et al, 2013 ⁴³	Yes	N =50 (Exp =24; Con =26) Age =Exp 62; Con =59 Sex =M29/F21 Time since stroke (days) =23	Frequency (both) =60 min x 3/wk × 6 wk Exp=BWSTT + usual care (active/ passive stretching exercises, upper/lower extremity training, overground gait training) Frequency (inpatients) =60 min x 5/wk x 6/wk Frequency (outpatients) =60 min x 3/wk x 6/wk Con=usual care (active/ passive stretching exercises, upper/lower extremity training, overground gait training) Frequency (inpatients) =60 min x 5/wk x 6/wk Frequency (outpatients) =60 min x 3/wk x 6/wk	Peak oxygen consumption =VO2peak Speed =10-m walk test Capacity =6-min Walk Test Balance =BBS Motor impairment = Chedoke-McMaster Stages of Recovery, Leg and Foot Follow-up =0, 6, 24, 48 wk
Ochi et al, 2015 ⁴⁴	Yes	N =26 (Exp =13; Con =13) Age =Exp 61.8; Con =55.5 Sex =M20/F6 Time since stroke (days) =24.5	Exp =gait training with a gait-assistance robot + standard physical therapy Frequency =20 min x 5/wk x 4/wk Con =overground gait training + standard physical therapy Frequency =20 min x 5/wk x 4/wk Frequency standard physical therapy (both) =60 min	Walking ability =FAC; Muscle torque =servo-dynamically controlled ergometer; Speed =10-m walk test; Lower extremity motor function =FMA Functional Independence = FIM Follow-up =0, 4 wk
Mao et al, 2015 ⁴²	Yes	N =24 (Exp =12; Con =12) Age =Exp 59.55; Con 60.82 Sex =M5/F19 Time since stroke (days) =48.46	x 5/wk x 4/wk Exp = BWSTT Frequency = 30 min x 5/wk x 3/wk Con = assisted overground walking Frequency = 30 min x 5/wk x 3/wk	Balance =Brunel balance assessment Lower extremity motor function =FMA Kinematic data =gait capture system; Follow-up =0, 3 wk
Han et al, 2016 ⁴⁵	Yes	N =56 (Exp =30; Con =26) Age =Exp 67.89; Con =63.2 Sex =M32/24 Time since stroke (days) =19.83	Exp =robot-assisted gait therapy + rehabilitation therapy Frequency robot-assisted gait therapy =30 min x 5/ wk x 4/wk Frequency rehabilitation therapy =30 min x 5/ wk x 4/wk Con =rehabilitation therapy Frequency =60 min x 5/wk x 4/wk	Brachial-ankle pulse wave velocity, cardiopulmonary fitn =oscillometric method Functional Independence =Modified Barthel Index; Walk ing ability =FAC; Lower extremity motor function =FMA Balance =BBS; Follow-up =0, 4 wk