







96 Publications

compiled 08.03.2018










SwayStar™ Section A (# articles 25)

Clinical Scientific:

-  The effect of prosthetic feedback on the strategies and synergies used by vestibular loss subjects to control stance
Honegger F, Hillebrandt IM, van den Elzen NG, Tang KS, Allum JH
[J Neuroeng Rehabil. 2013 Dec 19;10:115](#)
-  Movement strategies and sensory reweighting in tandem stance: Differences between trained tightrope walkers and untrained subjects
Honegger F, Tielkens RJ, Allum JH
[Neuroscience. 2013 Dec 19;254:285-300](#)
-  The effect of gait approach velocity on the broken escalator phenomenon
Tang KS, Kaski D, Allum JH, Bronstein AM
[Exp.Brain Res. 2013 May;226\(3\):335-46](#)
-  Coordination of the head with respect to the trunk, pelvis, and lower leg during quiet stance after vestibular loss
Honegger F, Hubertus JW, Allum JH
[Neuroscience. 2013 Mar 1;232:204-15](#)
-  Coordination of the head with respect to the trunk and pelvis in the roll and pitch planes during quiet stance
Honegger F, Van Spiker GJ, Allum JH
[Neuroscience. 2012 Jun 28;213:62-71](#)
-  Effects of age and pathology on stance modifications in response to increased postural threat
Shaw JA, Stefanyk LE, Frank JS, Jog MS, Adkin AL
[Gait Posture. 2012 Apr;35\(4\):658-61](#)








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-  Improving impaired balance function: real-time versus carry-over effects of prosthetic feedback
Allum JHJ, Carpenter MG, Horslen BC, Davis JR, Honegger F, Tang K-S, Kessler P
[Conf Proc IEEE Eng Med Biol Soc. 2011;2011:1314-8](#)
-  Comparative study of computerized dynamic posturography and the SwayStar system in healthy subjects
Faraldo-García A, Santos-Pérez S, Crujeiras R, Labella-Caballero T, Soto-Varela A
[Acta Otolaryngol. 2012 Mar;132\(3\):271-6](#)
-  The Occupational JP8 Exposure Neuroepidemiology Study (OJENES): repeated workday exposure and central nervous system functioning among US Air Force personnel
Proctor SP, Heaton KJ, Smith KW, Rodrigues ER, Widing DE, Herrick R, Vasterling JJ, McClean MD
[Neurotoxicology. 2011 Dec;32\(6\):799-808](#)
-  Influence of age and gender in the sensory analysis of balance control
Faraldo-García A, Santos-Pérez S, Crujeiras-Casais R, Labella-Caballero T, Soto-Varela A
[Eur Arch Otorhinolaryngol. 2012 Feb;269\(2\):673-7](#)
-  Can balance efficacy be manipulated using verbal feedback?
Lamarche L, Gammage KL, Adkin AL
[Can J Exp Psychol. 2011 Dec;65\(4\):277-84](#)
-  The influence of walking speed and gender on trunk sway for the healthy elderly and young
Goutier KTM, Janssen SI, Horlings CGC, Kung UM, Allum JHJ
[Age Ageing. 2010 Sep;39\(5\):647-50](#)
-  Directional effects of biofeedback on trunk sway during stance tasks in healthy young adults
Huffman J, Norton LE, Adkin AL, Allum JHJ
[Gait Posture. 2010 May;32\(1\):62-6](#)

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-  Vestibular and proprioceptive influences on trunk movement strategies during quiet standing
Horlings CGC, Küng UM, Bloem BR, Honegger F, Van Engelen BGM, Allum JHJ
[Neuroscience. 2009 Jul 7;161\(3\):904-14](#)
-  Effects of biofeedback on trunk sway during dual tasking in healthy young and elderly
Verhoeff LL, Janssen LJF, Horlings CGC, Allum JHJ
[Gait Posture. 2009 Jul;30\(1\):76-81](#)
-  Directional effects of biofeedback on trunk sway during gait tasks in healthy young subjects
Janssen LJF, Verhoeff LL, Horlings CGC, Allum JH
[Gait Posture. 2009 Jun;29\(4\):575-81](#)
-  Influence of virtual reality on postural stability during movements of quiet stance
Horlings CG, Carpenter MG, Kueng UM, Honegger F, Wiederhold B, Allum JH
[Neurosci Lett. 2009 Feb 27;451\(3\):227-31](#)
-  Manipulating balance perceptions in healthy young adults
Lamarche L, Shaw JA, Gammage KL, Adkin AL
[Gait Posture. 2009 Apr;29\(3\):383-6](#)
-  Multi-modales Biofeedback System zur Vorbeugung von Stürzen [Multi-modal Biofeedback System for the Prevention of Falls]
Burger J, Meyes S, Tschanz R, Davis JR, Carpenter MG, Debrunner D, Allum JHJ
[at-automatisierungstechnik 56: 467-475](#)
-  Neue Ansätze zur Sturzprävention mittels einer multi-modalen Gleichgewichtsprothese. In Neues aus Forschung und Klinik
Allum JHJ, Davis JR, Carpenter MG, Tschanz R, Meyes S, Debrunner D, Burger J
[6. Hennig Symposium: Der Gleichgewichtssinn. \(ed H Scherer\) Springer Verlag 2008 p 211-221](#)

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- ★ Evaluation of the effects of ethanol on static and dynamic gait
Mallinson AI, Longridge NS, Morley RE
[J Otolaryngol Head Neck Surg. 2008 Dec;37\(6\):856-9](#)
- ★ Identifying deficits in balance control following vestibular or proprioceptive loss using posturographic analysis of stance tasks
Horlings CG, Küng UM, Bloem BR, Honegger F, Van Alfen N, Van Engelen BG, Allum JH
[Clinical Neurophysiology, 2008; 119:2338-2346](#)
- ★ Effect of age and height on trunk sway during stance and gait
Hegeman J, Shapkova EY, Honegger F, Allum JH
[J Vestib Res. 2007; 17:75-87](#)
- ★ A speedy solution for balance and gait analysis angular velocity measured at the centre of body mass
Allum JH, Carpenter MG
[Curr Opin Neurol. 2005; 18:15-21](#)
- ★ Differences between trunk sway characteristics on a foam support surface and on the Equitest® ankle-sway-referenced support
Allum JH, Zamani F, Adkin AL, Ernst A
[Gait Posture. 2002; 16:264-70](#)










SwayStar™ Section B (# articles 29)

ORL:

- ★ Effects of a program of cognitive-behavioural group therapy, vestibular rehabilitation, and psychoeducational explanations on patients with dizziness and no quantified balance deficit, compared to patients with dizziness and a quantified balance deficit
Schmid DA, Allum JHJ, Sleptsova M, Gross S, Gaab J, Welge-Lüssen A, Schaefert R3, Langewitz W
[J Psychosom Res. 2018 Feb;105:21-30](#)








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-  The Effect of Peripheral Vestibular Recovery on Improvements in Vestibulo-ocular Reflexes and Balance Control After Acute Unilateral Peripheral Vestibular Loss
Allum JHJ, Scheltinga A, Honegger F
[Otol Neurotol. 2017 Dec; 38\(10\):e531-e538](#)
-  Mental body transformation deficits in patients with chronic balance disorders
Allum JHJ, Langewitz W, Sleptsova M, Welge-Luessen A, Honegger F, Schatz TH, Biner CL, Maguire C, Schmid DA
[J Vestib Res. 2017; 27\(2-3\):113-125](#)
-  Balance implants or external prostheses: Which is the wave of the future?
Allum JH
[J Vestib Res. 2017;27\(1\):49](#)
-  Vibro-tactile and auditory balance biofeedback changes muscle activity patterns: Possible implications for vestibular implants
Allum JH, Honegger F
[J Vestib Res. 2017;27\(1\):77-87](#)
-  Recovery times of stance and gait balance control after an acute unilateral peripheral vestibular deficit
Allum JH, Honegger F
[J Vestib Res. 2016;25\(5-6\):219-31](#)
-  Relation between head impulse tests, rotating chair tests, and stance and gait posturography after an acute unilateral peripheral vestibular deficit
Allum JH1, Honegger F
[Otol Neurotol. 2013 Aug;34\(6\):980-9](#)
-  Allum JHJ. Recovery of vestibular-ocular reflex function and balance control after unilateral peripheral vestibular deficit. In: New Understandings of Plasticity in the Vestibular System: From Bench to Bedside ed P-P Vidal
Allum JHJ
[Front Neurol. 2012;3:83](#)

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-  Strategies and synergies underlying replacement of vestibular function with prosthetic feedback
Honegger F, Hillebrandt IM, van der Elzen NG, Tang KS, Allum JH
[Conf Proc IEEE Eng Med Biol Soc. 2012;2012:6132-6](#)
-  Differentiating malingering balance disorder patients from healthy controls, compensated unilateral vestibular loss and whiplash patients using stance and gait posturography
Vonk J, Horlings CGC, Allum JHJ
[Audiol Neurootol. 2010;15\(4\):261-72](#)
-  Multimodales Feedback bei vestibulären Gleichgewichtsstörungen - erste Ergebnisse
Kessler P, Horlings CGC, Küng UM, Tang K-S, Allum JHJ
[Schweiz Med Forum 2010;10;\(Suppl. 54\) 28-30](#)
-  Movement strategies after vestibular loss: aiding these with prosthetic feedback. In Hören und Gleichgewicht im Blick des gesellschaftlichen Wandels ed PK Plinkert
Allum JHJ, Horlings CGC, Honegger F, Tang KS and Kessler P
[Springer Verlag 2009, p174-182](#)
-  Vestibular and proprioceptive contributions to human balance corrections: aiding those with prosthetic feedback. In Volume 1164 Basic and Clinical Aspects of Vertigo and Dizziness
Horlings CGC, Honegger F, Allum JHJ, Carpenter MG
[Ann N Y Acad Sci. 2009 May; 1164:1-12](#)
-  Moderne Rehabilitation von Gleichgewichtsstörungen mit Hilfe von Neurofeedback-Trainingsverfahren[Modern rehabilitation for vestibular disorders using neurofeedback training procedures]
Basta D, Ernst A
[HNO. 2008 Oct;56\(10\):990-5](#)
-  Vestibular rehabilitation by auditory feedback in otolith disorders
Basta D, Singbartl F, Todt I, Clarke A, Ernst A
[Gait Posture. 2008; 28:397-404](#)

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- ★ Increasing the usefulness of tandem walking evaluation
Mallinson AI, Longridge NS
[J Otolaryngol Head Neck Surg. 2008 Dec;37\(6\):860-4](#)
- 📡 Short-term rehabilitation of patients with posttraumatic otolith disorders by auditory feedback training: a pilot study
Ernst A, Singbartl F, Basta D, Seidl RO, Todt I, Eisenschenk A
[J Vestib Res. 2007; 17:137-44](#)
- ★ Short-term rehabilitation of patients with posttraumatic otolith disorders by auditory feedback training: A pilot study
Ernst A, Singbartl F, Basta D, Seidl RO, Todt I, Eisenschenk A
[J Vestib Res. 2007;17\(2-3\):137-44](#)

- ★ Stance performance under different sensorimotor conditions in patients with post-traumatic otolith disorders
Basta D, Clarke A, Ernst A, Todt I
[J Vestib Res. 2007; 17:25-31](#)
- ★ Otolith Function Assessed with the Subjective Postural Horizontal and Standardised Stance and Gait Tasks
Beule AG, Allum JH
[Audiol Neurootol. 2006; 11:172-82](#)

- ★ Incapacitating hypersensitivity to one's own body sounds due to a dehiscence of bone overlying the superior semicircular canal. A case report
Schmuziger N, Allum J, Buitrago-Télléz C, Probst R
[Eur Arch Otorhinolaryngol. 2006; 263:69-74](#)

- ★ Erkennung und Rehabilitation von Sturztendenzen und Gleichgewichts-Funktionsstörungen mittels Posturographie
J. H. J. ALLUM und M. G. CARPENTER

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- [Vestibularfunktion \(ed M Westhofen\) Springer Verlag, Vienna 2006; 141-156](#)
- ★ Postural control in otolith disorders
Basta D, Todt I, Scherer H, Clarke A, Ernst A
[Hum Mov Sci. 2005; 24:268-79](#)
 - 📡 The balance control of bilateral peripheral vestibular loss subjects and its improvement with auditory prosthetic feedback
Hegeman J, Honegger F, Kupper M, Allum JH
[J Vestib Res. 2005; 15:109-17](#)
 - ★ Management of posttraumatic vertigo
Ernst A, Basta D, Seidl RO, Todt I, Scherer H, Clarke A
[Otolaryngol Head Neck Surg. 2005; 132:554-8](#)
 - ★ Using Swaystar to measure sway amplitude in an office setting
Mallinson A, Longridge N, Wong K
[J Otolaryngol. 2004 Feb;33\(1\):17-21](#)
 - ★ Improvements in Trunk Sway Observed for Stance and Gait Tasks during Recovery from an Acute Unilateral Peripheral Vestibular Deficit
Allum JH, Adkin AL
[Audiol Neurotol. 2003; 8:286-302](#)
 - ★ Trunk Sway Measures of Postural Stability During Clinical Balance Tests in Patients With Chronic Whiplash Injury Symptoms
Sjöström H, Allum JH, Carpenter MG, Adkin AL, Honegger F, Ettlin T
[Spine. 2003; 28:1725-34](#)
 - ★ Trunk sway measures of postural stability during clinical balance tests: effects of a unilateral vestibular deficit
Allum JH, Adkin AL, Carpenter MG, Held-Ziolkowska M, Honegger F, Pierchala K
[Gait Posture. 2001; 14:227-37](#)

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SwayStar™ Section C (# articles 23)

Neurology:

- ★ A comparison of balance control during stance and gait in patients with inflammatory and non-inflammatory polyneuropathy
Findling O, van der Logt R, Nedeltchev K, Achtnichts L, Allum JHJ
[PLoS One. 2018 Feb 23;13\(2\):e0191957](#)

- ★ Impact of Spasticity on Balance Control during Quiet Standing in Persons after Stroke
Rahimzadeh Khiabani R, Mochizuki G, Ismail F, Boulias C, Phadke CP, Gage WH
[Stroke Res Treat. 2017;2017:6153714](#)

- 📡 The effect of vibrotactile biofeedback of trunk sway on balance control in multiple sclerosis.
van der Logt RP, Findling O, Rust H, Yaldizli O, Allum JH.
[Mult Scler Relat Disord. 2016 Jul;8:58-63](#)

- ★ Combining physical training with transcranial direct current stimulation to improve gait in Parkinson's disease: a pilot randomized controlled study
Kaski D, Dominguez RO, Allum JH, Islam AF, Bronstein AM
[Clin Rehabil. 2014 Nov;28\(11\):1115-24](#)

- ★ Applying anodal tDCS during tango dancing in a patient with Parkinson's disease
Kaski D1, Allum JH, Bronstein AM, Dominguez RO
[Neurosci Lett. 2014 May 7;568:39-43](#)

- ★ Improving gait and balance in patients with leukoaraiosis using transcranial direct current stimulation and physical training: an exploratory study

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- Kaski D, Dominguez RO, Allum JH, Bronstein AM
[Neurorehabil Neural Repair. 2013 Nov-Dec;27\(9\):864-71](#)
- ★ Effects of age and pathology on stance modifications in response to increased postural threat
Shaw JA, Stefanyk LE, Frank JS, Jog MS, Adkin AL
[Gait Posture. 2012 Apr;35\(4\):658-61](#)
- 📡 The effects of vibrotactile biofeedback training on trunk sway in Parkinson's disease patients
Nanhoe-Mahabier W, Allum JH, Pasman EP, Overeem S, Bloem BR
[Parkinsonism Relat Disord. 2012 Nov;18\(9\):1017-21](#)
- ★ Balance control multiplesclerosis: correlations of trunk sway during stance and gait tests with disease severity
Corporaal SHA, Yaldizli Ö, Gensicke H, Kappos L, Allum JHJ
[Gait Posture. 2012 Aug 5. \[Epub ahead of print\]](#)
- ★ Screening balance disorders in mildly affected multiple sclerosis patients
Fanchamps M, Gensicke H, De Jong BA, Kappos L, Allum JHJ, Yaldizli Ö
[J Neurol. 2012 Jul;259\(7\):1413-9](#)
- ★ The effects of skill focused instructions on walking performance depend on movement constraints in Parkinson's disease
Shaw JA, Huffman JL, Frank JS, Jog MS, Adkin AL
[Gait Posture. 2011 Jan;33\(1\):119-23](#)
- ★ Differences in trunk sway in patients with and without mild traumatic brain injury after whiplash injury
Findling O, Schuster C, Sellner J, Ettlin T, Allum JHJ
[Gait Posture. 2011 Oct;34\(4\):473-8](#)
- ★ Trunk sway in mildly disabled multiple sclerosis patients with and without balance impairment
Findling O, Sellner J, Meier N, Allum JHJ, Vibert D, Lienert C, Mattle H

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[Exp Brain Res. 2011 Sep;213\(4\):363-70](#)

- ★ Epidemiology and pathophysiology of falls in facioscapulohumeral disease

Horlings CGC, Munneke M, Bickerstaffe, Laverman L, Allum JHJ, Padberg GW, Bloem BR, Van Engelen BG

[J Neurol Neurosurg Psychiatry. 2009 Dec;80\(12\):1357-63](#)

- ★ Trunk sway analysis to quantify the warm-up phenomenon in myotonia congenita patients

Horlings CGC, Drost G, Bloem BR, Trip J, Pieterse AJ, Van Engelen BGM, Allum JHJ

[J Neurol Neurosurg Psychiatry. 2009 Feb;80\(2\):207-12](#)

- ★ The Role of Deep Brain Stimulation (DBS) in the Treatment of Postural Instability and Gait Disorders of Parkinson's Disease. In: Deep Brain Stimulation in Neurological and Psychiatric Disorders Helen Bronte-Stewart

[Current Clinical Neurology, 2008, 2, 333-358](#)

- ★ Identifying vestibular and proprioceptive loss using posturographic analysis of stance tasks

Horlings CGC, Kueng UM, Honegger F, Bloem BR, Van Alfen N, Van Engelen BGM, Allum JHJ

[Clin Neurophysiol. 2008 Oct;119\(10\):2338-46](#)

- ★ Falls and Gait Disturbances in Huntington's Disease

Grimbergen YA, Knol MJ, Bloem BR, Kremer BP, Roos RA, Munneke M

[Mov Disord. 2008; 23:970-6](#)

- ★ Quantification of trunk rotations during turning and walking in Parkinson's disease

Visser JE, Voermans NC, Oude Nijhuis LB, van der Eijk M, Nijk R, Munneke M, Bloem BR

[Clin Neurophysiol. 2007 Jul;118\(7\):1602-6](#)

- ★ The 'posture second' strategy: a review of wrong priorities in Parkinson's disease

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Bloem BR, Grimbergen YA, van Dijk JG, Munneke M

[J Neurol Sci. 2006; 248:196-204](#)



Effect of bilateral subthalamic nucleus stimulation on balance and finger control in Parkinson's disease

Vrancken AM, Allum JH, Peller M, Visser JE, Esselink RA, Speelman JD, Siebner HR, Bloem BR

[J Neurol. 2005; 252:1487-94](#)



Trunk sway measurements during stance and gait tasks in Parkinson's disease

Adkin AL, Bloem BR, Allum JH

[Gait & Posture, 2005; 22:240-249](#)



Trunk Sway in Patients With Spinocerebellar Ataxia

Van de Warrenburg BP, Bakker M, Kremer BP, Bloem BR, Allum JH

[Mov Disord. 2005 Aug;20\(8\):1006-13](#)



SwayStar™ Section D (#articles 18)

Geriatric:



Effects of tetrahydrocannabinol on balance and gait in patients with dementia: A randomised controlled crossover trial

van den Elsen GA, Tobben L, Ahmed AI, Verkes RJ, Kramers C, Marijnissen RM, Olde Rikkert MG, van der Marck MA

[J Psychopharmacol. 2017 Feb;31\(2\):184-191](#)



Benefits of multi-session balance and gait training with multi-modal biofeedback in healthy older adults

Lim SB, Horslen BC, Davis JR, Allum JH, Carpenter MG

[Gait Posture. 2016 Jun; 47:10-7](#)

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96 Publications

- ★ The Effect of Age on Improvements in Vestibulo-Ocular Reflexes and Balance Control after Acute Unilateral Peripheral Vestibular Loss
Scheltinga A, Honegger F, Timmermans DP, Allum JH
[Front Neurol. 2016 Feb 18](#)
- ★ Walking with a four wheeled walker (rollator) significantly reduces EMG lower-limb muscle activity in healthy subjects
Suica Z, Romkes J, Tal A, Maguire C
[J Bodyw Mov Ther. 2016 Jan;20\(1\):65-73](#)
- ★ Reduction of falls in older people by improving balance with vestibular rehabilitation (ReFOVeRe study): design and methods
Soto-Varela A, Gayoso-Diz P, Rossi-Izquierdo M, Faraldo-García A, Vaamonde-Sánchez-Andrade I, del-Río-Valeiras M, Lirola-Delgado A, Santos-Pérez S
[Aging Clin Exp Res. 2015 Dec;27\(6\):841-8](#)
- ★ Trunk sway during walking among older adults: norms and correlation with gait velocity
Lee SW, Verghese J, Holtzer R, Mahoney JR, Oh-Park M
[Gait Posture. 2014 Sep;40\(4\):676-81](#)
- ★ Is there a relationship between objective and subjective assessment of balance in elderly patients with instability?
Rossi-Izquierdo M, Santos-Pérez S, Del-Río-Valeiras M, Lirola-Delgado A, Faraldo-García A, Vaamonde-Sánchez-Andrade I, Gayoso-Diz P, Soto-Varela A
[Eur Arch Otorhinolaryngol. 2015 Sep;272\(9\):2201-6](#)
- ★ A method to investigate discrepancies between perceived and actual balance in older women
Lamarche L, Zaback M, Gammage KL, Klentrou P, Adkin AL
[Gait Posture. 2013 Sep;38\(4\):888-93](#)
- ★ Effect of music-based multitask training on gait, balance, and fall risk in elderly people: A randomized controlled trial
Trombetti A, Hars M, Herrmann FR, Kressig RW, Ferrari S, Rizzoli R

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- [Arch Intern Med. 2011 Mar 28;171\(6\):525-33](#)
- ★ Analysis of postural control in elderly subjects suffering from Psychomotor Disadaptation Syndrome (PDS)
Matheron E, Dubost V, Mourey F, Pfitzenmeyer P, Manckoundia P
[Arch Gerontol Geriatr. 2010 Jul-Aug; 51\(1\):e19-23](#)

 - ★ Multifactorial fall prevention for pairs of frail community-dwelling older fallers and their informal caregivers: a dead end for complex interventions in the frailest fallers
Faes MC, Reelick MF, Melis RJ, Borm GF, Esselink RA, Rikkert MG
[J Am Med Dir Assoc. 2011 Jul;12\(6\):451-8](#)

 - 📡 Trunk sway reductions in young and older adults using multi-modal biofeedback
Davis JR, Carpenter MG, Tschanz R, Meyes S, Debrunner D, Burger J, Allum JHJ
[Gait Posture. 2010 Apr;31\(4\):465-72](#)

 - ★ The influence of fear of falling on gait and balance in older people
Reelick MF, van Iersel MB, Kessels RP, Rikkert MG
[Age Ageing. 2009 Jul;38\(4\):435-40](#)

 - ★ Executive functions are associated with gait and balance in community-living elderly people
van Iersel MB, Kessels RP, Bloem BR, Verbeek AL, Olde Rikkert MG
[J Gerontol A Biol Sci Med Sci. 2008 Dec;63\(12\):1344-9](#)

 - ★ A method to standardize gait and balance variables for gait velocity
van Iersel MB, Olde Rikkert MG, Borm GF
[Gait Posture. 2007 Jul;26\(2\):226-30](#)

 - ★ The effect of cognitive dual tasks on balance during walking in physically fit elderly people

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van Iersel MB, Ribbers H, Munneke M, Borm GF, Rikkert MG
[Arch Phys Med Rehabil. 2007 Feb;88\(2\):187-91](#)



Is fall prevention by vitamin D mediated by a change in postural or dynamic balance

Bischoff-Ferrari HA, Conzelmann M, Stähelin HB, Dick W, Carpenter MG, Adkin AL, Theiler R, Pfeifer M, Allum JH
[Osteoporos Int. 2006; 17:656-63](#)



Quantitative Assessment of the Stops Walking While Talking Test in the Elderly

de Hoon EW, Allum JH, Carpenter MG, Salis C, Bloem BR, Conzelmann M, Bischoff HA
[Arch Phys Med Rehabil. 2003; 84:838-42](#)



SwayStar™ Section E (# articles 1)

Orthopaedic:



Improvements in balance after total hip replacement

Majewski M, Bischoff-Ferrari HA, Grüneberg C, Dick W, Allum JH
[J Bone Joint Surg Br. 2005; 87:1337-43](#)