

Wissenschaftliche Publikationen Neurologie

Effects of Whole-Body Vibration on Upper Extremity Function and Grip Strength in Patients with Subacute Stroke: A Randomised Single-Blind Controlled Trial.

Background: Whole-body vibration has been used to improve motor function in chronic stroke patients, but its effect on patients with subacute strokes remains unclear. Objectives: We explored the effect of whole [weiter...](#)

Verfasser: Ahn JY, Kim H, Park CB

Quelle: Occup Ther Int, **2019**; 2019(): 5820952, PMID: [31065236](#)

GID: 4902; Last update: 16.05.2019

Wissenschaftliche Publikationen (2019)

Use of whole body vibration therapy in individuals with moderate severity of cerebral palsy- a feasibility study.

BACKGROUND: This pilot study was to examine the feasibility and tolerance of whole body vibration therapy (WBVT) for children and adults with moderate severity of cerebral palsy (CP) being graded as levels III [weiter...](#)

Verfasser: Pin TW, Butler PB, Purves S

Quelle: BMC Neurol, **2019**; 19(1): 80, PMID: [31043157](#)

GID: 4900; Last update: 06.05.2019

Wissenschaftliche Publikationen (2019)

Individually tailored whole-body vibration training to reduce symptoms of chemotherapy-induced peripheral neuropathy: study protocol of a randomised controlled trial-VANISH.

INTRODUCTION: Chemotherapy-induced peripheral neuropathy (CIPN) is a prevalent and clinically meaningful side effect of cancer treatment. CIPN is induced by neurotoxic agents, causing severe sensory and/or moto [weiter...](#)

Verfasser: Streckmann F, Hess V, Bloch W, Decard BF, Ritzmann R, Lehmann HC, Balke M, Koliamitra C, Oschwald V, Elter T, Zahner L, Donath L, Roth R, Faude O

Quelle: BMJ Open, **2019**; 9(4): e024467, PMID: [31023750](#)

GID: 4896; Last update: 29.04.2019

Wissenschaftliche Studien (2017)

The Immediate Effect of Inspiratory Muscle Training with Whole Body Vibration on Pulmonary Function of Stroke Patients

PURPOSE: This study investigated the immediate effect of inspiratory muscle training with whole-body vibration on the pulmonary function of subacute stroke patients. METHODS: All participants (n=30) were al [weiter...](#)

Verfasser: Si-Hyun Park, Dong-Kwon Seo

Quelle: J Korean Soc Phys Med., **2017**; 12(4): 9-37

Schlagworte: Stroke, Pulmonary Function

GID: 4765; Last update: 12.10.2018

Wissenschaftliche Studien (2018)

Whole body vibration and treadmill training in Parkinson's disease rehabilitation: effects on energy cost and recovery phases.

BACKGROUND: Although physical treatment is recognized as being beneficial for patients with Parkinson's disease (PD), there is scant literature on the type of rehabilitation program most useful for patients wi [weiter...](#)

Verfasser: Corbianco S, Cavallini G, Baldereschi G, Carboncini MC, Fiamingo FL, Bongioanni P, Dini M

Quelle: Neurol Sci, **2018**; 39(12): 2159-2168, PMID: [30229379](#) 

GID: 4757; Last update: 24.09.2018

Wissenschaftliche Studien (2018)

Reference centiles for the gross motor function measure and identification of therapeutic effects in children with cerebral palsy.

RATIONALE, AIMS, AND OBJECTIVES: Children with cerebral palsy (CP) can show an increase in gross motor function until the age of 9 to 10 years under the standard of care. Additionally, the motor development can [weiter...](#)

Verfasser: Duran I, Stark C, Martakis K, Hamacher S, Semler O, Schoenau E

Quelle: J Eval Clin Pract, **2018**; (): , PMID: [30028064](#) 

GID: 4733; Last update: 24.07.2018

Wissenschaftliche Studien (2018)

Vibration-Assisted Home Training Program for Children With Spinal Muscular Atrophy.

The aim of this study was to determine the effect of a new method of vibration-assisted neuromuscular rehabilitation in patients with spinal muscular atrophy types II and III. In this retrospective observation [weiter...](#)

Verfasser: Stark C, Duran I, Cirak S, Hamacher S, Hoyer-Kuhn HK, Semler O, Schoenau E

Quelle: Child Neurol Open, **2018**; 5: 1-9, PMID: [29977975](#) 

Schlagworte: children, developmental disability, efficacy, pediatric, rehabilitation


GID: 4719; Last update: 09.07.2018

Wissenschaftliche Studien (2018)

Effects of a 6-week, whole-body vibration strength-training on depression symptoms, endocrinological and neurobiological parameters in adolescent inpatients experiencing a major depressive episode (the "Balancing Vibrations Study"): study protocol for a r

BACKGROUND: Moderate to vigorous endurance and strength-training exercise was suggested as a treatment option for major depression. However, there is little evidence to support this suggestion in adolescent pat [weiter...](#)

Verfasser: Oberste M, Grossheinrich N, Wunram HL, Graf JL, Ziemendorff A, Meinhardt A, Fricke O, Mahabir E, Bender S

Quelle: Trials, **2018**; 19(1): 347, PMID: [29970142](#) 

Schlagworte: Depression

GID: 4721; Last update: 09.07.2018

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Publikationen (2018)

Acute whole-body vibration increases reciprocal inhibition.

Based on previous evidence that whole-body vibration (WBV) affects pathways involved in disynaptic reciprocal inhibition (DRI), the present hypothesis-driven experiment aimed to assess the acute effects of WBV [weiter...](#)

Verfasser: Ritzmann R, Krause A, Freyler K, Gollhofer A

Quelle: Hum Mov Sci, **2018**; 60(): 191-201, PMID: [29957423](#) 

GID: 4703; Last update: 02.07.2018

Wissenschaftliche Studien (2018)

Vibration therapy in patients with cerebral palsy: a systematic review.

The neurological disorder cerebral palsy (CP) is caused by unprogressive lesions of the immature brain and affects movement, posture, and the musculoskeletal system. Vibration therapy (VT) is increasingly used [weiter...](#)

Verfasser: Ritzmann R, Stark C, Krause A

Quelle: Neuropsychiatr Dis Treat, **2018**; 14(): 1607-1625, PMID: [29950843](#) 

GID: 4710; Last update: 02.07.2018

Wissenschaftliche Studien (2018)

The preventive effect of sensorimotor- and vibration exercises on the onset of Oxaliplatin- or vinca-alkaloid induced peripheral neuropathies - STOP.

BACKGROUND: Chemotherapy-induced peripheral neuropathy (CIPN) is a common and clinically relevant side effect of chemotherapy. Approximately 50% of all leukemia, lymphoma, colorectal- and breast cancer patients [weiter...](#)

Verfasser: Streckmann F, Balke M, Lehmann HC, Rustler V, Koliamitra C, Elter T, Hallek M, Leitzmann M, Steinmetz T, Heinen P, Baumann FT, Bloch W

Quelle: BMC Cancer, **2018**; 18(1): 62, PMID: [29316888](#) 

Schlagworte: Chemotherapy, Neuropathy

GID: 4580; Last update: 14.01.2018

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Publikationen (2017)

Correction: Immediate Effect of a Single Session of Whole Body Vibration on Spasticity in Children With Cerebral Palsy.

[This corrects the article on p. 273 in vol. 41, PMID: 28503461., GID: 4447]. [weiter...](#)

Verfasser: Park C, Park ES, Choi JY, Cho Y, Rha DW

Quelle: Ann Rehabil Med, **2017**; 41(4): 722-723, PMID: [28971060](#) 

Schlagworte: Corrections for GID:4447

GID: 4590; Last update: 14.01.2018

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2017)

WHOLE-BODY VIBRATION EXERCISE IS WELL TOLERATED IN PATIENTS WITH DUCHENNE MUSCULAR DYSTROPHY: A SYSTEMATIC REVIEW.

BACKGROUND: Duchenne muscular dystrophy (DMD) is caused by a defective gene located on the X-chromosome, responsible for the production of the dystrophin protein. Complications in the musculoskeletal system hav [weiter...](#)

Verfasser: Moreira-Marconi E, Sa-Caputo DC, Dionello CF, Guedes-Aguiar EO, Sousa-Goncalves CR, Morel DS, Paineiras-Domingos LL, Souza PL, Kutter CR, Costa-Cavalcanti RG, Costa G, Paiva PC, Figueiredo C, Brandao-Sobrinho-Neto S, Stark C, Unger M, Bernardo-Filho M

Quelle: Afr J Tradit Complement Altern Med, **2017**; 14(4 Suppl): 2-10, PMID: [28740938](#)

Schlagworte: Metaanalysis, Duchenne Msucel Dystrophy (DMD)

GID: 4601; Last update: 14.01.2018

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Effect of whole-body vibration exercise in preventing falls and fractures: a systematic review and meta-analysis.

OBJECTIVE: To investigate the effect of whole-body vibration exercise (WBV) on fracture risk in adults ≥ 50 years of age. **DESIGN:** A systematic review and meta-analysis calculating relative risk ratios, fall [weiter...](#)

Verfasser: Jepsen DB, Thomsen K, Hansen S, Jorgensen NR, Masud T, Ryg J

Quelle: BMJ Open, **2017**; 7(12): e018342, PMID: [29289937](#)

Schlagworte: Metaanalysis

GID: 4570; Last update: 08.01.2018

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Home-based vibration assisted exercise as a new treatment option for scoliosis - A randomised controlled trial.

OBJECTIVES: The aim of this study was to evaluate the effect of scoliosis specific exercises (SSE) on a side-alternating whole body vibration platform (sWBV) as a home-training program in girls with adolescent [weiter...](#)

Verfasser: Langensiepen S, Stark C, Sobottke R, Semler O, Franklin J, Schraeder M, Siewe J, Eysel P, Schoenau E

Quelle: J Musculoskelet Neuronal Interact, **2017**; 17(4): 259-267, PMID: [29199184](#)

Schlagworte: Scoliosis. Cobb Angle

#GRFS138

GID: 4574; Last update: 08.01.2018

Wissenschaftliche Studien (2018)

Whole body vibration added to treatment as usual is effective in adolescents with depression: a partly randomized, three-armed clinical trial in inpatients.

There is growing evidence for the effectiveness of exercise in the treatment of adult major depression. With regard to adolescents, clinical trials are scarce. Due to the inherent symptoms of depression (lack o [weiter...](#)

Verfasser: Wunram HL, Hamacher S, Hellmich M, Volk M, Janicke F, Reinhard F, Bloch W, Zimmer P, Graf C, Schonau E, Lehmkuhl G, Bender S, Fricke O

Quelle: Eur Child Adolesc Psychiatry, **2018**; 27(5): 645-662, PMID: [29119301](#)

Schlagworte: UniReha, Cologne Concept, Depression

GID: 4552; Last update: 14.11.2017

Wissenschaftliche Studien (2017)

Effects of whole body vibration training and mental training on mobility, neuromuscular performance, and muscle strength in older men.

This study was designed to evaluate the effects of whole body vibration (WBV) exercise, mental training (MT), and the concurrent effect of WBV and MT on lower body balance, neuromuscular performance, and leg m [weiter...](#)

Verfasser: Goudarzian M, Ghavi S, Shariat A, Shirvani H, Rahimi M

Quelle: J Exerc Rehabil, 2017; 13(5): 573-580, PMID: [29114533](#)

GID: 4553; Last update: 14.11.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Whole-Body Vibration Combined with Treadmill Training Improves Walking Performance in Post-Stroke Patients: A Randomized Controlled Trial.

BACKGROUND Stroke is characterized by an asymmetrical gait pattern that causes poor stability and reduces overall activity levels. The aim of this study was to investigate the effect of whole-body vibration co [weiter...](#)

Verfasser: Choi W, Han D, Kim J, Lee S

Quelle: Med Sci Monit, 2017; 23(): 4918-4925, PMID: [29031023](#)

Schlagworte: Stroke, Gait Parameters, Msucel Function, Endurance

#GRFS128

GID: 4551; Last update: 06.11.2017

Weitere Informationen: [Original Article](#)

Fachartikel (2017)

Effects of whole-body vibration therapy on perception thresholds of type 2 diabetic patients with peripheral neuropathy: a randomized controlled trial.

[Purpose] The aim of this study was to investigate the effect of whole-body vibration training on perception thresholds in type 2 diabetic patients with peripheral neuropathy. [Subjects and Methods] Fifty-nine [weiter...](#)

Verfasser: Lee K

Quelle: J Phys Ther Sci, 2017; 29(9): 1684-1688, PMID: [28932013](#)

Schlagworte: Diabetes, Whole-body vibration Therapy, Perception threshold

#GRFS114

GID: 4523; Last update: 25.09.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Alleviation of Motor Impairments in Patients with Cerebral Palsy: Acute Effects of Whole-body Vibration on Stretch Reflex Response, Voluntary Muscle Activation and Mobility.

INTRODUCTION: Individuals suffering from cerebral palsy (CP) often have involuntary, reflex-evoked muscle activity resulting in spastic hyperreflexia. Whole-body vibration (WBV) has been demonstrated to reduce [weiter...](#)

Verfasser: Krause A, Schonau E, Gollhofer A, Duran I, Ferrari-Malik A, Freyler K, Ritzmann R

Quelle: Front Neurol, 2017; 8(): 416, PMID: [28861038](#)

Schlagworte: CP, Cerebral Palsy

GID: 4502; Last update: 04.09.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Effects of whole-body vibration on postural control in elderly: An update of a systematic review and meta-analysis.

The aim of this systematic review and meta-analysis was to offer an updated overview of the current studies on all types of whole-body vibration (WBV), to determine the effects of WBV on balance in Go-Go (aktiv [weiter...](#)

Verfasser: Rogan S, Taeymans J, Radlinger L, Naepflin S, Ruppen S, Bruehlhart Y, Hilfiker R

Quelle: Arch Gerontol Geriatr, **2017**; 73: 95-112, PMID: [28800481](#)

Schlagworte: Metaanalysis

GID: 4476; Last update: 14.08.2017

Wissenschaftliche Studien (2017)

WHOLE-BODY VIBRATION EXERCISE IS WELL TOLERATED IN PATIENTS WITH DUCHENNE MUSCULAR DYSTROPHY: A SYSTEMATIC REVIEW

Background: Duchenne muscular dystrophy (DMD) is caused by a defective gene located on the X-chromosome, responsible for the production of the dystrophin protein. Complications in the musculoskeletal system ha [weiter...](#)

Verfasser: Eloá Moreira-Marconi, Danubia C Sá-Caputo, Carla F Dionello, Eliane O Guedes-Aguiar, Cintia R Sousa-Gonçalves, Danielle S Morel, Laisa L Paineiras-Domingos, Patricia L Souza, Cristiane R Kütter, Rebeca G Costa-Cavalcanti, Glenda Costa, Patricia C Paiva, C

Quelle: Afr J Tradit Complement Altern Med, **2017**; 14(S): 2-10

Schlagworte: Metastudie

GID: 4475; Last update: 26.07.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Immediate Effect of a Single Session of Whole Body Vibration on Spasticity in Children With Cerebral Palsy.

OBJECTIVE: To investigate the immediate effect of a single session of whole body vibration (WBV) on lower extremity spasticity in children with cerebral palsy (CP). METHODS: Seventeen children with spastic CP [weiter...](#)

Verfasser: Park C, Park ES, Choi JY, Cho Y, Rha DW

Quelle: Ann Rehabil Med, **2017**; 41(2): 273-278, PMID: [28503461](#)

Schlagworte: Vibration, Muscle spasticity, Cerebral palsy, CP, MAS, MTS, GMFCS
#GRFS64

GID: 4447; Last update: 22.05.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

WHOLE-BODY VIBRATION EXERCISE IMPROVES FUNCTIONAL PARAMETERS IN PATIENTS WITH OSTEOGENESIS IMPERFECTA: A SYSTEMATIC REVIEW WITH A SUITABLE APPROACH.

BACKGROUND: Patients with osteogenesis imperfecta (OI) have abnormal bone modelling and resorption. The bone tissue adaptation and responsivity to dynamic and mechanical loading may be of therapeutic use under [weiter...](#)

Verfasser: Sa-Caputo DC, Dionello CDF, Frederico EHFF, Paineiras-Domingos LL, Sousa-Goncalves CR, Morel DS, Moreira-Marconi E, Unger M, Bernardo-Filho M

Quelle: Afr J Tradit Complement Altern Med, **2017**; 14(3): 199-208, PMID: [28480432](#)

Schlagworte: OI

GID: 4443; Last update: 16.05.2017

Wissenschaftliche Studien (2017)

Static postural control in youth with osteogenesis imperfecta type I

Objective: To assess static postural control in eyes-open and eyes-closed conditions in 4 individuals with osteogenesis imperfecta (OI) type I as compared to typically developing (TD) 5 individuals. The secon [weiter...](#)

Verfasser: Pouliot-Laforte A, LemayM , Rauch F, Veilleux LN

Quelle: ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION, **2017**;

Schlagworte: Posturography

GID: 4424; Last update: 24.04.2017

Wissenschaftliche Studien (2016)

Controlled whole-body vibration training reduces risk of falls in people with Multiple Sclerosis

Despite the prevalence of falls among people with multiple sclerosis (MS), there are very limited evidence-based treatment approaches for fall prevention among this population. Controlled whole-body vibration ([weiter...](#)

Verfasser: Sanchez MC, Estrada E, King GA, Yang F

Quelle: IJESAB, **2016**; 2: Iss. 8

GID: 4396; Last update: 01.04.2017

Wissenschaftliche Studien (2017)

Does Whole Body Vibration Exercise Stimulate Cortical Activity in Chronic Stroke Patients? A Functional Near Infrared Spectroscopy Study

Verfasser: Jung W, Yeo SM, Choi DS, Lee A, Park W, Chang WH, Kim YH

Quelle: Korean Society for NeuroRehabilitation, **2017**;

Schlagworte: Stroke, Cortical Activity

#GRFS67

GID: 4387; Last update: 21.03.2017

Pressestimmen (2017)

Mit COPD auf die Rüttelplatte! Längere Gehstrecke wohl durch bessere Balance

WIESBADEN - In der kneumologischen Rehabilitation bringt das als Add-on eingesetzte (Galileo) Vibrationstraining einen signifikanten Gehstreckenzuwachs. Die Frage ist nur wodurch? [weiter...](#)

Quelle: Med. Tribune, **2017**; 52/10:


GID: 4378; Last update: 10.03.2017

Wissenschaftliche Studien (2017)

EMG activity of upper limb on spinal cord injury individuals during whole-body vibration.

Whole-body vibration (WBV) has shown positive results increasing electromyographic (EMG) activity and strength in a healthy population when applied to upper and lower limbs. The aim of this study was to verify [weiter...](#)

Verfasser: Da Silva U, Villagra HA, Oliva LL, Marconi NF

Quelle: *Physiol Int*, **2017**; 103(3): 361-367, PMID: [28229644](#) 

Schlagworte: SCI

GID: 4371; Last update: 24.02.2017

Wissenschaftliche Studien (2017)

A randomized exploratory phase 2 study in patients with chemotherapy-related peripheral neuropathy evaluating whole-body vibration training as adjunct to an integrated program including massage, passive mobilization and physical exercises.

BACKGROUND: Chemotherapy-induced polyneuropathy (CIPN) is a common toxicity after chemotherapy, immunomodulatory drugs or proteasome inhibitors, which is difficult to treat and may also have impact on quality of [weiter...](#)

Verfasser: Schonsteiner SS, Bauder Missbach H, Benner A, Mack S, Hamel T, Orth M, Landwehrmeyer B, Sussmuth SD, Geitner C, Mayer-Steinacker R, Riestler A, Prokein A, Erhardt E, Kunecki J, Eisenschink AM, Rawer R, Dohner H, Kirchner E, Schlenk RF

Quelle: *Exp Hematol Oncol*, **2017**; 6: 5, PMID: [28194306](#) 

Schlagworte: Neuropathy

#GRFS36

GID: 4363; Last update: 08.02.2017

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2016)

Short Duration Small Sided Football and to a Lesser Extent Whole Body Vibration Exercise Induce Acute Changes in Markers of Bone Turnover.

We aimed to study whether short-duration vibration exercise or football sessions of two different durations acutely changed plasma markers of bone turnover and muscle strain. Inactive premenopausal women (n = [weiter...](#)

Verfasser: Bowtell JL, Jackman SR, Scott S, Connolly LJ, Mohr M, Ermidis G, Julian R, Yousefian F, Helge EW, Jorgensen NR, Fulford J, Knapp KM, Krstrup P

Quelle: *Biomed Res Int*, **2016**; 2016(): 3574258, PMID: [28025642](#) 

GID: 4320; Last update: 11.01.2017

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2016)

Effects of controlled whole-body vibration training in improving fall risk factors among individuals with multiple sclerosis: A pilot study.

PURPOSE: The purpose of this study was to systematically examine the effect of an 8-week controlled whole-body vibration training on improving fall risk factors and the bone mineral density among people with mu [weiter...](#)

Verfasser: Yang F, Finlayson M, Bethoux F, Su X, Dillon L, Maldonado HM

Quelle: Disabil Rehabil, **2016**; 15: 1-8, PMID: [27976932](#)

Schlagworte: MS, Multiple Sclerosis, Balance, Fall-Risk, Power

#GRFS132

GID: 4324; Last update: 11.01.2017

Wissenschaftliche Studien (2016)

The effects of visual control whole body vibration exercise on balance and gait function of stroke patients.

[Purpose] This study aims to verify the effects of visual control whole body vibration exercise on balance and gait function of stroke patients. [Subjects and Methods] A total of 22 stroke patients were randomly selected. [weiter...](#)

Verfasser: Choi ET, Kim YN, Cho WS, Lee DK

Quelle: J Phys Ther Sci, **2016**; 28(11): 3149-3152, PMID: [27942138](#)

Schlagworte: Visual control whole body vibration exercise, Balance, Gait, Stroke

#GRFS66

GID: 4326; Last update: 11.01.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2016)

Effects of Three Weeks of Whole-Body Vibration Training on Joint-Position Sense, Balance, and Gait in Children with Cerebral Palsy: A Randomized Controlled Study.

Purpose : To observe the effects of whole-body vibration (WBV) training in conjunction with conventional physical therapy (PT) on joint-position sense (JPS), balance, and gait in children with cerebral palsy (C [weiter...](#)

Verfasser: Ko MS, Sim YJ, Kim DH, Jeon HS

Quelle: Physiother Can, **2016**; 68(2): 99-105, PMID: [27909356](#)

Schlagworte: cerebral palsy; CP; gait; postural balance; proprioception; whole-body vibration.

#GRFS51

GID: 4332; Last update: 11.01.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2017)

Whole-body vibration to prevent intensive care unit-acquired weakness: safety, feasibility, and metabolic response

Background: Intensive care unit (ICU)-acquired weakness in critically ill patients is a common and significant complication affecting the course of critical illness. Whole-body vibration is known to be effective. [weiter...](#)

Verfasser: Wollersheim T, Haas K, Wolf S, Mai K, Spies C, Steinhagen-Thiessen E, Wernecke KD, Spranger J, Weber-Carstens S

Quelle: Critical Care, DOI 10.1186, **2017**; 21/9: 1-10, PMID: [28065165](#)

Schlagworte: Intensive Care, ICU, Intensivpflege

GID: 4316; Last update: 09.01.2017

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2016)

Acute corticospinal and spinal modulation after whole body vibration.

OBJECTIVES: The objective of this study was to investigate neural effects of acute whole body vibration (WBV) on lower limb muscles regarding corticospinal and spinal excitability. **METHODS:** In 44 healthy subjek [weiter...](#)

Verfasser: Krause A, Gollhofer A, Freyler K, Jablonka L, Ritzmann R

Quelle: J Musculoskelet Neuronal Interact, **2016**; 16(4): 327-338, PMID: [27973385](#)

Schlagworte: Supraspinal, Motor Evoked Potential, H-reflex, Neurophysiological Adaptation, Central Nervous System #GRFS74

GID: 4312; Last update: 21.12.2016

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2016)

Vibration training improves disability status in multiple sclerosis: A pretest-posttest pilot study.

The purpose of this study was to examine the effects of an 8-week vibration training program on changing the disability level in people with multiple sclerosis (MS). Twenty-five adults with clinically-confirmed [weiter...](#)

Verfasser: Yang F, Estrada EF, Sanchez MC

Quelle: J Neurol Sci, **2016**; 369(): 96-101, PMID: [27653872](#)

Schlagworte: Side-alternating vibration Mobility Patient Determined Disability Status Multiple Sclerosis Functional Composite

#GRFS82, #GRFS94

GID: 4248; Last update: 20.10.2016

Wissenschaftliche Studien (2016)

Early vibration assisted physiotherapy in toddlers with cerebral palsy - a randomized controlled pilot trial.

OBJECTIVES: to investigate feasibility, safety and efficacy of home-based side-alternating whole body vibration (sWBV) to improve motor function in toddlers with cerebral palsy (CP). **METHODS:** Randomized control [weiter...](#)

Verfasser: Stark C, Herkenrath P, Hollmann H, Waltz S, Becker I, Hoebing L, Semler O, Hoyer-Kuhn H, Duran I, Hero B, Hadders-Algra M, Schoenau E

Quelle: J Musculoskelet Neuronal Interact, **2016**; 16(3): 183-92, PMID: [27609033](#)

Schlagworte: CP, Kleinkinder, Toddlers, Tilt Table, Safety, Cologne Concept, Auf die Beine, Kölner Konzept

#GRFS14

GID: 4232; Last update: 14.09.2016

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2016)

Effects of whole-body vibration after eccentric exercise on muscle soreness and muscle strength recovery.

[Purpose] The aim of this study was to investigate whether or not a single whole-body vibration treatment after eccentric exercise can reduce muscle soreness and enhance muscle recovery. [Subjects and Methods] [weiter...](#)

Verfasser: Timon R, Tejero J, Brazo-Sayavera J, Crespo C, Olcina G

Quelle: J Phys Ther Sci, **2016**; 28(6): 1781-5, PMID: [27390415](#)

Schlagworte: Kreatinkinase, Creatinekinasis, delayed muscle soreness, DMS, Muskelkater
#GRFS1, #GRFS5

GID: 4212; Last update: 13.09.2016

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2016)

Effectiveness of Rehabilitation Interventions to Improve Gait Speed in Children With Cerebral Palsy: Systematic Review and Meta-analysis.

BACKGROUND: Children with cerebral palsy (CP) have decreased gait speeds, which can negatively impact participation and quality of life. However, evidence for effective rehabilitation interventions to improve g [weiter...](#)

Verfasser: Moreau NG, Bodkin AW, Bjornson K, Hobbs A, Soileau M, Lahasky K

Quelle: Phys Ther, **2016**; 96(12): 1938-1954, PMID: [27313240](#)

Schlagworte: Metaanalysis

GID: 4182; Last update: 27.06.2016

Wissenschaftliche Studien (2016)

Acute effects of unilateral whole body vibration training on single leg vertical jump height and symmetry in healthy men.

[Purpose] The aim of the present study was to investigate the acute effects of unilateral whole body vibration training on height and symmetry of the single leg vertical jump in healthy men. [Subjects] Thirty m [weiter...](#)

Verfasser: Shin S, Lee K, Song C

Quelle: J Phys Ther Sci, **2016**; 27(12): 3923-8, PMID: [26834381](#)

Schlagworte: Single leg vertical jump, Symmetry, Whole body vibration
#GRFS77

GID: 4076; Last update: 16.02.2016

Wissenschaftliche Studien (2016)

Short-Term Effects of Whole-Body Vibration Combined with Task-Related Training on Upper Extremity Function, Spasticity, and Grip Strength in Subjects with Poststroke Hemiplegia: A Pilot Randomized Controlled Trial.

OBJECTIVE: The aim of this study was to determine the effect of whole-body vibration training combined with task-related training on arm function, spasticity, and grip strength in subjects with poststroke hemip [weiter...](#)

Verfasser: Lee JS, Kim CY, Kim HD

Quelle: Am J Phys Med Rehabil, **2016**; 95(8): 608-17, PMID: [26829094](#)

Schlagworte: Hemiplegia, Motor Recovery, Task-Related Training, Upper Extremity, Whole-Body Vibration
#GRFS40

GID: 4077; Last update: 16.02.2016

Wissenschaftliche Studien (2016)

Whole-body vibration therapy in intensive care patients: A feasibility and safety study.

BACKGROUND: Admission to the intensive care unit is associated with sustained loss of muscle mass, reduced quality of life and increased mortality. Early rehabilitation measures may counteract this process. New [weiter...](#)

Verfasser: Boeselt T, Nell C, Kehr K, Holland A, Dresel M, Greulich T, Tackenberg B, Kenn K, Boeder J, Klapdor B, Kirschbaum A, Vogelmeier C, Alter P, Koczulla R

Quelle: J Rehabil Med, **2016**; 48(3): 316-21, PMID: [26805786](#) 

Schlagworte: early rehabilitation; exercise; whole-body vibration; intensive care unit; muscle; heart rate; blood pressure; oxygen saturation.

GID: 4078; Last update: 16.02.2016

Wissenschaftliche Studien (2016)

Acute effects of simultaneous electromyostimulation and vibration on leg blood flow in spinal cord injury.

STUDY DESIGN: Randomized crossover. **OBJECTIVES:** To analyze the acute effects of isolated and simultaneous application of whole-body vibration (WBV) and electromyostimulation (ES) on popliteal artery blood veloc [weiter...](#)

Verfasser: Menendez H, Ferrero C, Martin-Hernandez J, Figueroa A, Marin PJ, Herrero AJ

Quelle: Spinal Cord, **2016**; 54(5): 383-9, PMID: [26458973](#) 

Schlagworte: SCI, Spinal Cord Injury, Blood Flow, Electro Stimulation#gr>#GRFS63


GID: 4006; Last update: 16.10.2015

Wissenschaftliche Studien (2015)

Controlled whole-body vibration training reduces risk of falls among community-dwelling older adults.

The primary purpose of this study was to systematically examine the effects of an 8-week controlled whole-body vibration training on reducing the risk of falls among community-dwelling adults. Eighteen healthy [weiter...](#)

Verfasser: Yang F, King GA, Dillon L, Su X

Quelle: J Biomech, **2015**; 48(12): 3206-12, PMID: [26189095](#) 

Schlagworte: Fallprevention Physicalmedicine Cutaneous sensation Range ofmotion Fear offalling Side-alternating vibration Hip fracture

#GRFS79

GID: 3953; Last update: 21.07.2015

Wissenschaftliche Publikationen (2015)

The effects of whole body vibration on mobility and balance in children with cerebral palsy: a systematic review with meta-analysis.

OBJECTIVE: We performed a meta-analysis to evaluate the effects of whole-body vibration on physiologic and functional measurements in children with cerebral palsy. **DESIGN AND METHODS:** We searched MEDLINE, Cochr [weiter...](#)

Verfasser: Saquetto M, Carvalho V, Silva C, Conceicao C, Gomes-Neto M

Quelle: J Musculoskelet Neuronal Interact, **2015**; 15(2): 137-44, PMID: [26032205](#) 

Schlagworte: Cerebral Palsy, Exercise, Whole-body Vibration, Mobility, Metaanalysis

GID: 3884; Last update: 17.06.2015

Wissenschaftliche Studien (2015)

Lower-extremity muscle atrophy and fat infiltration after chronic spinal cord injury.

BACKGROUND: Atrophy and fatty-infiltration of lower-extremity muscle after spinal cord injury (SCI) predisposes individuals to metabolic disease and related mortality. OBJECTIVES: To determine the magnitude of [weiter...](#)

Verfasser: Moore CD, Craven BC, Thabane L, Laing AC, Frank-Wilson AW, Kontulainen SA, Papaioannou A, Adachi JD, Giangregorio LM

Quelle: J Musculoskelet Neuronal Interact, **2015**; 15(1): 32-41, PMID: [25730650](#)

GID: 3859; Last update: 08.04.2015

Weitere Informationen: [Original Article](#)

Grundlagenstudien (2015)

Acute effects of whole-body vibration on trunk and neck muscle activity in consideration of different vibration loads.

The intention of this study was to systematically analyze the impact of biomechanical parameters in terms of different peak-to-peak displacements and knee angles on trunk and neck muscle activity during whole-b [weiter...](#)

Verfasser: Perchthaler D, Hauser S, Heitkamp HC, Hein T, Grau S

Quelle: J Sports Sci Med, **2015**; 14(1): 155-62, PMID: [25729303](#)

Schlagworte: EMG on lower back during vibration training Vibration, electromyography, torso, paraspinal muscles. EMG, Lower Back Muscles, Upper Back Muscles

#GRFS8

GID: 3839; Last update: 08.04.2015

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2015)

Neuromuscular training based on whole body vibration in children with spina bifida: a retrospective analysis of a new physiotherapy treatment program.

INTRODUCTION: Spina bifida is the most common congenital cause of spinal cord lesions resulting in paralysis and secondary conditions like osteoporosis due to immobilization. Physiotherapy is performed for opt [weiter...](#)

Verfasser: Stark C, Hoyer-Kuhn HK, Semler O, Hoebing L, Duran I, Cremer R, Schoenau E

Quelle: Childs Nerv Syst, **2015**; 31(2): 301-9, PMID: [25370032](#)

Schlagworte: Spina Bifida, Cologne Concept, Auf die Beine, Kölner Konzept, Kontrakturen, Contractures

#GRFS15, #GRFS148

GID: 3658; Last update: 24.11.2014

Wissenschaftliche Studien (2014)

Feasibility, compliance, and efficacy of a randomized controlled trial using vibration in pre-pubertal children.

OBJECTIVE: Interventions utilizing vibration may increase bone mass and size which may reduce forearm fractures in children. This randomized controlled pilot trial tested the feasibility, compliance and effica [weiter...](#)

Verfasser: Binkley TL, Parupsky EC, Kleinsasser BA, Weidauer LA, Speckerr BL

Quelle: J Musculoskelet Neuronal Interact, **2014**; 14(3): 294-302, PMID: [25198224](#)

Schlagworte: BMC, BMD, High-intensity Vibration, Low-intensity Vibration, DXA, pQCT

GID: 3632; Last update: 16.09.2014

Wissenschaftliche Studien (2013)

LOADING OF THE KNEE AND HIP JOINT DURING WHOLE BODY VIBRATION

Verfasser: Ines Kutzner, Philipp Damm, Hendrik Schulze, Georg Bergmann

Quelle: European Congress of Biomechanics, Patras, 2013;

Schlagworte: Galileo Training joint forces, Gelenkskräfte

#GRFS7

GID: 3588; Last update: 29.08.2014

Wissenschaftliche Studien (2011)

The effects of whole-body-vibration exercises in Parkinson´s disease: a short review

Parkinson's disease (PD) is a complex, progressive and disabling neurodegenerative disorder marked by progressive loss of nigrostriatal dopaminergic neurons which is related to a continuous impairment of moto [weiter...](#)

Verfasser: Nelson S. Pinto, Milena B. Monteiro, Patricia Froes Meyer, Sebastião D. Santos-Filho, Fabiana Azevedo-Santos, Raquel M. Bernardo, Dulciane Paiva, Daiane Thompson, Sotiris, Missailidis, Pedro J. Marín, Christian T. Haas, Mario Bernardo-Filho

Quelle: Journal of Medicine and Medical Science, 2011; 2(1): 594-600

Schlagworte: Parkinson's disease; Whole body vibration, Metaanalysis

GID: 3522; Last update: 02.04.2014

Wissenschaftliche Studien (2014)

Effect of a combination of whole body vibration exercise and squat training on body balance, muscle power, and walking ability in the elderly.

A randomized controlled trial was conducted to clarify the beneficial effect of whole body vibration (WBV) exercise plus squat training on body balance, muscle power, and walking ability in the elderly with kne [weiter...](#)

Verfasser: Osugi T, Iwamoto J, Yamazaki M, Takakuwa M

Quelle: Ther Clin Risk Manag, 2014; 10(): 131-8, PMID: [24591837](#)

Schlagworte: Fall Risk, deep squat training, body balance, walking velocity, muscle power

#GRFS54

GID: 3505; Last update: 20.03.2014

Wissenschaftliche Studien (2014)

Whole body vibration training - improving balance control and muscle endurance.

Exercise combined with whole body vibration (WBV) is becoming increasingly popular, although additional effects of WBV in comparison to conventional exercises are still discussed controversially in literature. [weiter...](#)

Verfasser: Ritzmann R, Kramer A, Bernhardt S, Gollhofer A

Quelle: PLoS One, 2014; 9(2): e89905, PMID: [24587114](#)

GID: 3507; Last update: 20.03.2014

Wissenschaftliche Studien (2014)

Does progressive resistance and balance exercise reduce falls in residential aged care? Randomized controlled trial protocol for the SUNBEAM program

Introduction: Falls are common among older adults. It is reported that approximately 60% of residents of aged care facilities fall each year. This is a major cause of morbidity and mortality, and a significant [weiter...](#)

Verfasser: Hewitt J, Refshauge KM, Goodall S, Henwood T, Clemson L

Quelle: Clinical Interventions in Aging, **2014**; 9: 369-376

GID: 3480; Last update: 25.02.2014

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2014)

In vivo measurements of the effect of whole body vibration on spinal loads.

PURPOSE: It is assumed that whole body vibration (WBV) improves muscle strength, bone density, blood flow and mobility and is therefore used in wide ranges such as to improve fitness and prevent osteoporosis a [weiter...](#)

Verfasser: Rohlmann A, Schmidt H, Gast U, Kutzner I, Damm P, Bergmann G

Quelle: Eur Spine J, **2014**; 23(3): 666-72, PMID: [24201510](#) 

Schlagworte: Galileo Training joint forces, Gelenkskräfte, Galileo vs. PowerPlate

#GRFS6

GID: 3455; Last update: 05.02.2014

Wissenschaftliche Studien (2011)

Leg muscle activity level and rate of perceived exertion with different whole-body vibration frequencies in multiple sclerosis patients: An exploratory approach

This study aimed to determine the whole-body vibration (WBV) frequencies that cause the highest average electromyogram (EMG) output in four different muscles, in relation to patients suffering from multiple s [weiter...](#)

Verfasser: Karel Hendrik Madou,

Quelle: Hong Kong Physiotherapy Journal, **2011**; 29: 12-19

Schlagworte: electromyography; multiple sclerosis; perceived exertion; whole-body vibration

GID: 3441; Last update: 04.02.2014

Wissenschaftliche Studien (2014)

Effect of whole-body vibration on muscle strength and balance in diplegic cerebral palsy: a randomized controlled trial.

OBJECTIVE: The purpose of this study was to investigate the effects of whole-body vibration training on muscle strength and balance in children with diplegic cerebral palsy. DESIGN: Fifteen children were assign [weiter...](#)

Verfasser: El-Shamy SM

Quelle: Am J Phys Med Rehabil, **2014**; 93(2): 114-21, PMID: [24434887](#) 

Schlagworte: CP, quariceps torque, balance

#GRFS56

GID: 3431; Last update: 24.01.2014

Wissenschaftliche Studien (2014)

Whole-body vibration training in children with Duchenne muscular dystrophy and spinal muscular atrophy.

INTRODUCTION: Whole-body-vibration training is used to improve muscle strength and function and might therefore constitute a potential supportive therapy for neuromuscular diseases. OBJECTIVE: To evaluate safety [weiter...](#)

Verfasser: Vry J, Schubert IJ, Semler O, Haug V, Schonau E, Kirschner J

Quelle: Eur J Paediatr Neurol, 2014; 18(2): 140-9, PMID: [24157400](#)

Schlagworte: Whole-body vibration training Exercise in neuromuscular diseases Duchenne muscular dystrophy Spinal muscular atrophy Creatine kinase

#GRFS57, #GRFS58

GID: 3429; Last update: 10.01.2014

Grundlagenstudien (2013)

Whole-body vibration training improves balance, muscle strength and glycosylated hemoglobin in elderly patients with diabetic neuropathy.

Elderly patients with diabetes and peripheral neuropathy are more likely to experience falls. However, the information available on how such falls can be prevented is scarce. We investigated the effects of whole [weiter...](#)

Verfasser: Lee K, Lee S, Song C

Quelle: Tohoku J Exp Med, 2013; 231(4): 305-14, PMID: [24334483](#)

Schlagworte: Muscle Power, Balance, HbA1c, Diabetes, Flexibility

#GRFS55

GID: 3411; Last update: 08.01.2014

TV-Beiträge (2011)

Auf die Beine - Ein Reha-Konzept für Kinder

Verfasser: K.Beck, M Strathmann

Quelle: PT Interdisziplinär, 2011; 4: 1-16

GID: 3311; Last update: 19.09.2013

Wissenschaftliche Publikationen (2010)

Osteoporosis in Men Chapter 52: Exercise programs for Patients with osteoporosis

Verfasser: Felsenberg D., Runge M.

Quelle: Osteoporosis in Men, 2010; 635-652

GID: 3308; Last update: 17.09.2013

Wissenschaftliche Studien (2012)

Whole-body vibration training for patients with neurodegenerative disease.

BACKGROUND: Whole-body vibration (WBV) may be a complementary training to standard physical rehabilitation programmes and appears to have potential benefits in the sensorimotor system performance of patients with [weiter...](#)

Verfasser: Sitja Rabert M, Rigau Comas D, Fort Vanmeerhaeghe A, Santoyo Medina C, Roque i Figuls M, Romero-Rodriguez D, Bonfill Cosp X

Quelle: Cochrane Database Syst Rev, 2012; 2(): CD009097, PMID: [22336858](#)

Schlagworte: Metaanalysis

GID: 3228; Last update: 18.06.2013

Wissenschaftliche Studien (2013)

Intervallrehabilitation mit häuslichem Training bei Kindern mit Zerebralparese

Das Erlernen motorischer Fertigkeiten geht im Allgemeinen mit plastischen Veränderungen im Zentralnervensystem (ZNS) einher [18]. Auch nach einer Schädigung des ZNS kommt es nach dem aktuellen Wissensstand [weiter...](#)

Verfasser: C. Stark · O. Semler · I. Duran · A. Stabrey · I. Kaul · P. Herkenrath · H. Hollmann · S. Waltz · E. Schönau

Quelle: Monatsschr Kinderheilkd, **2013**; 161: 625–632

GID: 3227; Last update: 17.06.2013

Wissenschaftliche Studien (2013)

Effects of Whole-Body Vibration on Muscle Architecture, Muscle Strength, and Balance in Stroke Patients: A Randomized Controlled Trial.

OBJECTIVE: The aim of the present study was to analyze the effects of whole-body vibration on lower limb muscle architecture, muscle strength, and balance in stroke patients during a period of 3 mos. **DESIGN:** [weiter...](#)

Verfasser: Marín PJ, Ferrero CM, Menéndez H, Martín J, Herrero AJ.

Quelle: Am J Phys Med Rehabil., **2013**; 92(10): 881-8, PMID: [23636085](#)

Schlagworte: Stroke

GID: 3181; Last update: 06.06.2013

Wissenschaftliche Studien (2013)

Vibration or Balance Training on Neuromuscular Performance in Osteopenic Women.

Maintaining neuromuscular function in older age is an important topic for aging societies, especially for older women with low bone density who may be at risk of falls and bone fracture. This randomized control [weiter...](#)

Verfasser: Stolzenberg N, Belavý DL, Rawer R, Felsenberg D.

Quelle: Int J Sports Med., **2013**; 34(11): 956-62, PMID: [23549694](#)

Schlagworte: osteoporosis menopause whole body vibration ground reaction force

GID: 3192; Last update: 06.06.2013

Wissenschaftliche Studien (2013)

Evaluation of bone mineral density and morphology using pQCT in children after spinal cord injury.

Objective: To evaluate the effects of spinal cord injury (SCI) on bone density and morphology in children using peripheral quantitative computer tomography (pQCT). **Design:** Retrospective cohort study of 19 paedi [weiter...](#)

Verfasser: Biggin A, Briody JN, Ramjan KA, Middleton A, Waugh MC, Munns CF.

Quelle: Dev Neurorehabil., **2013**; 16(6): 391-7, PMID: [23477616](#)

Schlagworte: Bone density, spinal cord injuries, osteopenia

GID: 3213; Last update: 06.06.2013

Wissenschaftliche Studien (2013)

Whole-body vibration versus proprioceptive training on postural control in post-menopausal osteopenic women.

BACKGROUND: To prevent falls in the elderly, especially those with low bone density, is it necessary to maintain muscle coordination and balance. The aim of this study was to examine the effect of classical ba [weiter...](#)

Verfasser: Stolzenberg N, Belavy DL, Rawer R, Felsenberg D

Quelle: Gait Posture, 2013; 38(3): 416-20, PMID: [23375357](#)

GID: 3134; Last update: 13.03.2013

Wissenschaftliche Studien (2013)

Effect of whole body vibration training on mobility in children with cerebral palsy: a randomized controlled experimenter-blinded study.

Objective: To evaluate ambulatory function and leg muscle thickness after whole body vibration training in children with cerebral palsy. Design: A block randomized controlled trial with two groups. Setting: Phy [weiter...](#)

Verfasser: Lee BK, Chon SC

Quelle: Clin Rehabil, 2013; 27(7): 599-607, PMID: [23411791](#)

Schlagworte: CP. Cerebral Palsy

#GRFS30

GID: 3117; Last update: 19.02.2013

Wissenschaftliche Studien (2013)

Analysing gait using a force-measuring walkway: intrasession repeatability in healthy children and adolescents.

The goal of this study was to determine the repeatability of gait parameters measured by a force plate gait analysis system (Leonardo Mechanograph((R)) GW) in healthy children. Nineteen healthy children and ado [weiter...](#)

Verfasser: Veilleux LN, Ballaz L, Robert M, Lemay M, Rauch F

Quelle: Comput Methods Biomech Biomed Engin, 2013; (): , PMID: [23360226](#)

GID: 3109; Last update: 02.02.2013

Grundlagenstudien (2013)

Whole-body vibration improves functional recovery in spinal cord injured rats.

Whole-body vibration (WBV) is a relatively novel form of exercise used to improve neuromuscular performance in healthy individuals. Its usefulness as a therapy for patients with neurological disorders, in parti [weiter...](#)

Verfasser: Wirth F, Schempf G, Stein G, Wellmann K, Manthou M, Scholl C, Sidorenko M, Semler O, Eisel L, Harrach R, Angelova S, Jaminet P, Ankerne J, Ashrafi M, Ozsoy O, Ozsoy U, Schubert H, Abdulla D, Dunlop SA, Angelov DN, Irintchev A, Schonau E

Quelle: J Neurotrauma, 2013; 30(6): 453-68, PMID: [23157611](#)

GID: 3068; Last update: 27.11.2012

Pressestimmen (2012)

Galileo Training bei exacerbierter COPD

Quelle: beatmetleben, **2012**; 4: 26-27

Schlagworte: COPD, Beatmung, Lungenerkrankung

GID: 3049; Last update: 11.10.2012

Wissenschaftliche Studien (2012)

Abnormalities in Muscle Density and Muscle Function in Hypophosphatemic Rickets.

Context:Animal studies suggest that hypophosphatemic rickets (HPR) is associated with muscle function deficits, but it is unknown whether humans with HPR have a muscle disorder.Objective:Our objective was to a [weiter...](#)

Verfasser: Veilleux LN, Cheung M, Ben Amor M, Rauch F

Quelle: J Clin Endocrinol Metab, **2012**; 97(8): E1492-8, PMID: [22639288](#)

GID: 2979; Last update: 05.06.2012

Wissenschaftliche Studien (2012)

Whole body vibration improves the single-leg stance static balance in women with fibromyalgia: a randomized controlled trial.

AIM: Fibromyalgia (FM) is a chronic disorder characterized by widespread pain. Fibromyalgia is associated with balance problems and increased fall frequency. Whole-body vibration therapy had been used for impro [weiter...](#)

Verfasser: Adsuar JC, Del Pozo-Cruz B, Parraca JA, Olivares PR, Gusi N

Quelle: J Sports Med Phys Fitness, **2012**; 52(1): 85-91, PMID: [22327091](#)

Schlagworte: Balance, Fybromyalgia

#GRFS102

GID: 2960; Last update: 11.05.2012

Wissenschaftliche Studien (2012)

Effect of whole-body vibration exercise on balance in women with fibromyalgia syndrome: a randomized controlled trial.

Abstract Objectives: This study evaluated the effectiveness of a 6-week "usual care" exercise program supplemented with whole-body vibration (WBV) to improve balance and strength in women with fibromyalgia (FM) [weiter...](#)

Verfasser: Sanudo B, de Hoyo M, Carrasco L, Rodriguez-Blanco C, Oliva-Pascual-Vaca A, McVeigh JG

Quelle: J Altern Complement Med, **2012**; 18(2): 158-64, PMID: [22321155](#)

GID: 2915; Last update: 13.03.2012

Wissenschaftliche Publikationen (2012)

The dynamics of bone structure development during pubertal growth.

The pubertal growth spurt is a time of rapid changes in bone length, mass and structure, followed by the cessation of longitudinal growth. The two best studied anatomical areas in this respect are the metaphyse [weiter...](#)

Verfasser: Rauch F

Quelle: J Musculoskelet Neuronal Interact, **2012**; 12(1): 1-6, PMID: [22373945](#)

GID: 2904; Last update: 07.03.2012

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2011)

Effects of whole-body vibration on postural control in elderly: a systematic review and meta-analysis.

BACKGROUND: This systematic review was performed to summarize the current evidence for whole body vibration (WBV) interventions on postural control in elderly. METHODS: English and German language papers in Med [weiter...](#)

Verfasser: Rogan S, Hilfiker R, Herren K, Radlinger L, de Bruin ED

Quelle: BMC Geriatr, **2011**; 11(): 72, PMID: [22054046](#)

Schlagworte: Metaanalysis

GID: 2849; Last update: 06.02.2012

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2012)

Is 8 weeks of side-alternating whole-body vibration a safe and acceptable modality to improve functional performance in multiple sclerosis?

Purpose: To examine whether an 8-week period of side-alternating whole-body vibration (WBV) exercise is an acceptable and effective exercise intervention to improve and maintain functional performance in multi [weiter...](#)

Verfasser: Mason RR, Cochrane DJ, Denny GJ, Firth EC, Stannard SR

Quelle: Disabil Rehabil, **2012**; 34(8): 647-54, PMID: [21992525](#)

Schlagworte: MS

GID: 2852; Last update: 06.02.2012

Wissenschaftliche Studien (2011)

Tilting Whole Body Vibration improves quality of life in women with fibromyalgia: a randomized controlled trial.

OBJECTIVES: The aim of this study was to analyze the effect of 12-week tilting Whole Body Vibration therapy (WBV) on Health Related Quality of Life (HRQoL) in fibromyalgia (FM) within the context of a randomize [weiter...](#)

Verfasser: Olivares PR, Gusi N, Parraca JA, Adsuar JC, Del Pozo-Cruz B

Quelle: J Altern Complement Med, **2011**; 17(8): 723-8, PMID: [21749265](#)

Schlagworte: Fibromyalgia, Quality of Life, QOL

#GRFS136

GID: 2860; Last update: 06.02.2012

Wissenschaftliche Studien (2010)

The effect of 6-week exercise programme and whole body vibration on strength and quality of life in women with fibromyalgia: a randomised study.

OBJECTIVES: The aim of this study was to investigate the effectiveness of a 6-week traditional exercise programme with supplementary whole-body vibration (WBV) in improving strength and health status in women w [weiter...](#)

Verfasser: Sanudo B, de Hoyo M, Carrasco L, McVeigh JG, Corral J, Cabeza R, Rodriguez C, Oliva A

Quelle: Clin Exp Rheumatol, **2010**; 28(6 Suppl 63): S40-5, PMID: [21122265](#)

GID: 2870; Last update: 06.02.2012

Wissenschaftliche Studien (2012)

Effects of whole body vibration in patients with chronic obstructive pulmonary disease - A randomized controlled trial.

INTRODUCTION: To date endurance and strength training are established and evidence-based exercise methods in patients with chronic obstructive pulmonary disease (COPD). There is an unmet need for further resear [weiter...](#)

Verfasser: Gloeckl R, Heinzlmann I, Baeuerle S, Damm E, Schwedhelm AL, Diril M, Buhrow D, Jerrentrup A, Kenn K

Quelle: Respir Med, **2012**; 106(1): 75-83, PMID: [22104540](#) 

Schlagworte: COPD

#GRFS32

GID: 2780; Last update: 08.12.2011

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2011)

PLATELET ATP AND L-ARGININE-ASYMMETRICAL DIMETHYLARGININE RATIO IN VIBRATIONAL TRAINING VERSUS AEROBIC TRAINING OF PARKINSON'S DISEASE PATIENTS. A PRELIMINARY STUDY

Background: Nitric oxide (NO) synthases (NOS) produce NO by oxidation of l-arginine (l-Arg). Excessive NO synthesis in the brain has cytotoxic effects¹ and in mouse models NOS knockouts are protective after ce [weiter...](#)

Verfasser: P. Bongioanni, S. Corbianco, M. Dini, U. Carraro, N. Adami, S. Zampieri, M. Carboncini, M. Giannetti, G. Cavallini, B. Rossi

Quelle: 2011;

Schlagworte: Parkinson

GID: 2764; Last update: 12.10.2011

Wissenschaftliche Studien (2011)

Spezielle Trainingstherapie zur Reduktion der Inflammation bei Anti-Jo-1-Syndrom (Special Training Therapy to Reduce Inflammation in Anti-Jo-1 Syndrome)

Zusammenfassung: Wir berichten über den Fall eines 46-jährigen Patienten mit medikamentös behandeltem Anti-Jo-1-Syndrom. Aufgrund einer progressiven Verschlechterung der Lungenfunktion, Dyspnoe, Abgeschlage [weiter...](#)

Verfasser: Greulich T, Müller S, Fechtel J, Nell C, Holland A, Bach JP, Tackenberg B, Schubert H, Kenn K, Vogelmeier C, Koczulla AR

Quelle: Pneumologie, **2011**; Oct;65(10): 624-7

Schlagworte: COPD Pneumologie, Inflammatory Markers, CK, IL-8, TNF-alpha

#GRFS106

GID: 2755; Last update: 05.10.2011

Wissenschaftliche Studien (2011)

Vibrationsunterstützte Intervalltherapie bei Kindern mit infantiler Zerebralparese

Verfasser: Stark C; Semler O; Stabrey A; Duran I; Schönau E

Quelle: 107. Jahrestagung der Deutschen Gesellschaft der Kinder und Jugendärzte, **2011**;

GID: 2749; Last update: 28.09.2011

Download: 

Wissenschaftliche Studien (2011)

Effekt der vibrationsunterstützten Intervallrehabilitation auf die grobmotorischen Fähigkeiten eines Patienten mit Smith-Lemli-Optiz Syndrom

Verfasser: Duran I, Semler O, Schönau E

Quelle: 107. Jahrestagung der Deutschen Gesellschaft der Kinder und Jugendärzte, **2011**;

GID: 2750; Last update: 28.09.2011

Download: 

Wissenschaftliche Studien (2011)

Ergebnis der multimodalen Intervallrehabilitation bei Kindern und Jugendlichen mit Osteogenesis Imperfecta

Das Kölner Rehabilitationskonzept "Auf die Beine" führt bei Kindern und Jugendlichen mit OI, zu einer Zunahme von Knochen- und Muskelmasse, zu einer Verbesserung der Muskelkraft und zu einer Steigerung der Mo [weiter...](#)

Verfasser: Semler O, Müller B, Duran I, Stark C, Schönau E

Quelle: 107. Jahrestagung der Deutschen Gesellschaft der Kinder und Jugendärzte (Poster), Monatsschrift Kinderheilkunde, **2011**; Supplement 3: 187

Schlagworte: OI, Knochenmasse, Muskelkraft, Muskelfunktion, Kölner Konzept, Cologne Concept
#GRFS103, #GRFS122

GID: 2751; Last update: 28.09.2011

Download:  

Wissenschaftliche Studien (2011)

pQCT measures of bone and muscle are independently associated with falls in women – a principal components analysis

BACKGROUND: falling is often a first step to generate sufficient energy for a fragility fracture fallers have been associated with poor muscle strength and low vitamin D levels fat within muscle has been sugge [weiter...](#)

Verfasser: Wong AKO, Bhargava A, Beattie KA, Gordon CL, Pickard L, Webber CE, Papaioannou A, Adachi JD

Quelle: ASBMR, San Diego, **2011**;

Schlagworte: Muscle Density, Falls

GID: 2744; Last update: 21.09.2011

Wissenschaftliche Studien (2011)

Tri-modality comparison of bone structure imaging technologies

BACKGROUND: bone structural quantification desirable to assess fracture risk, not captured by BMD useful for assessing bone formation agents and abnormalities in structural pathologies achieved primarily by th [weiter...](#)

Verfasser: Wong AKO, Beattie KA, Webber CE, Inglis D, Pickard L, Cheung AMW, Gordon CL, Papaioannou A, Adachi JD, the CaMos Research Group

Quelle: ASBMR, SanDiego, **2011**;

GID: 2745; Last update: 21.09.2011

Wissenschaftliche Studien (2011)

Whole-body vibration alters blood flow velocity and neuromuscular activity in Friedreich's ataxia.

The purpose of this study was to investigate the effects of whole-body vibration (WBV) on blood flow velocity and muscular activity after different vibration protocols in Friedreich's ataxia (FA) patients. Aft [weiter...](#)

Verfasser: Herrero AJ, Martin J, Martin T, Garcia-Lopez D, Garatachea N, Jimenez B, Marin PJ

Quelle: Clin Physiol Funct Imaging, **2011**; 31(2): 139-44, PMID: [21078065](#)

Schlagworte: Blood-flow, Ataxia, Perceived Exertion, EMG, EMG activation

#GRFS134

GID: 2735; Last update: 15.09.2011

Wissenschaftliche Studien (2011)

Effects of whole body vibration therapy on main outcome measures for chronic non-specific low back pain: a single-blind randomized controlled trial.

OBJECTIVE: The aim of this study was to determine whether a 12-week course of low-frequency vibrating board therapy is a feasible therapy for non-specific chronic low back pain, and whether it improves the main [weiter...](#)

Verfasser: del Pozo-Cruz B, Hernandez Mocholi MA, Adsuar JC, Parraca JA, Muro I, Gusi N

Quelle: J Rehabil Med, **2011**; 43(8): 689-94, PMID: [21687923](#)

Schlagworte: Back Pain, Oswerty, VAS, Roland Morris

#GRFS9

GID: 2699; Last update: 30.08.2011

Wissenschaftliche Studien (2011)

Physiotherapie in Kombination mit Vibrationstherapie Eine sinnvolle Therapieoption?

Verfasser: S. von der Heide

Quelle: Praxis Physiotherapie, **2011**; 2: 75 - 80

GID: 2666; Last update: 01.07.2011

Wissenschaftliche Studien (2011)

Effects of whole-body vibration on blood flow and neuromuscular activity in spinal cord injury.

STUDY DESIGN: Crossover trial. **OBJECTIVES:** To investigate the effects of whole-body vibration (WBV) on muscular activity and blood flow velocity after different vibration treatments in patients with spinal cord [weiter...](#)

Verfasser: Herrero AJ, Menendez H, Gil L, Martin J, Martin T, Garcia-Lopez D, Gil-Agudo A, Marin PJ

Quelle: Spinal Cord, **2011**; 49(4): 554-9, PMID: [21042329](#)

Schlagworte: SCI, Spinal Cord Injury

#GRFS116

GID: 2667; Last update: 01.07.2011

Wissenschaftliche Studien (2011)

Additive impact of alfacalcidol on bone mineral density and bone strength in alendronate treated postmenopausal women with reduced bone mass

Objectives: Assessment of additive impact of alfacalcidol 1 [weiter...](#)

Verfasser: Felsenberg D, Bock O, Börst H, Armbrecht G, Beller G, Degner C, Stephan-Oelkers M, Schacht E, Mazor Z, Hashimoto J, Roth HJ, Martus P, Runge M

Quelle: J Musculoskelet Neuronal Interact., **2011**; 11(1): 34-45, PMID: [21364273](#)

GID: 2587; Last update: 05.03.2011

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2009)

Die Vibrationstherapie mit dem Galileo-System in der Pädiatrie am Beispiel der Spinalen Muskelatrophie

Entwicklungsförderung ist so vieldimensional und faszinierend wie das Leben selbst. Sie fordert den Menschen - als Patienten und Lernender und als Therapeut mit allen seinen körperlichen, geistigen, emotiona [weiter...](#)

Verfasser: Christine Scheffer

Quelle: Facharbeit Manuelle Therapie, Hagen, **2009**; 29

GID: 2493; Last update: 12.01.2011

Wissenschaftliche Studien (2010)

Whole body vibration as an adjunct to static stretching

This study was a randomized control trial. The purpose of this study was twofold: 1) to determine if stretching the hamstrings during whole-body-vibration (WBV) is more effective than static stretching alone; a [weiter...](#)

Verfasser: Feland JB, Hawks M, Hopkins JT, Hunter I, Johnson AW, Eggett DL

Quelle: Int J Sports Med., **2010**; 31(8): 584-9, PMID: [20535662](#)

Schlagworte: Standard Stretching vs Galileo Training #GRFS17

GID: 2366; Last update: 24.08.2010

Wissenschaftliche Studien (2010)

Vibration effects on static balance and strength

The purpose of this study was to investigate the effects of a vibration training protocol and a conventional strength training program consisting of similar exercises on knee extensors and flexors strength and [weiter...](#)

Verfasser: Spiliopoulou SI, Amiridis IG, Tsiganos G, Economides D, Kellis E

Quelle: Int J Sports Med., **2010**; 31(9): 610-6, PMID: [20589590](#)

Schlagworte: Balance, Knee strength, msucel function

#GRFS121

GID: 2319; Last update: 12.07.2010

Wissenschaftliche Studien (2010)

Jumping mechanography: a potential tool for sarcopenia evaluation in older individuals

Muscular function declines with advancing age and is associated with increased risk for falls and fragility fractures. No single methodology ideally quantitatively evaluates this decline. Jumping mechanography [weiter...](#)

Verfasser: Buehring B, Krueger D, Binkley N

Quelle: J Clin Densitom., **2010**; 13(3): 283-91, PMID: [20554231](#)

GID: 2325; Last update: 12.07.2010

Wissenschaftliche Studien (2010)

Effect of a new physiotherapy concept on bone mineral density, muscle force and gross motor function in children with bilateral cerebral palsy

Objective: The purpose of this study was to determine the effect of a new physiotherapy concept on bone density, muscle force and motor function in bilateral spastic cerebral palsy children. Methods: In a retro [weiter...](#)

Verfasser: Stark C, Nikopoulou-Smyrni P, Stabrey A, Semler O, Schoenau E

Quelle: J Musculoskelet Neuronal Interact., **2010**; 10(2): 151-8, PMID: [20516632](#)

Schlagworte: mGMFM, Muscle Mass, DXA bone mineral density (BMD), Bone mineral Content (BMC)

#GRFS72

GID: 2292; Last update: 07.06.2010

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2010)

EMG activity during whole body vibration: motion artifacts or stretch reflexes

The validity of electromyographic (EMG) data recorded during whole body vibration (WBV) is controversial. Some authors ascribed a major part of the EMG signal to vibration-induced motion artifacts while others [weiter...](#)

Verfasser: Ritzmann R, Kramer A, Gruber M, Gollhofer A, Taube W

Quelle: Eur J Appl Physiol., **2010**; 110(1): 143-51, PMID: [20419311](#)

Schlagworte: Strech Reflex, EMG, latency, Movement Artefact

#GRFS101

GID: 2242; Last update: 28.04.2010

Wissenschaftliche Studien (2010)

Tilt vibratory exercise improves the dynamic balance in fibromyalgia: A randomized controlled trial

OBJECTIVE:: To evaluate the feasibility and efficacy of tilt whole-body vibration for improving dynamic balance in women with fibromyalgia (FM). METHODS:: Forty-one women (aged 41 to 65) were randomly assigned [weiter...](#)

Verfasser: Gusi N, Parraca JA, Olivares PR, Leal A, Adsuar JC

Quelle: Arthritis Care Res (Hoboken)., **2010**; 62/8: 1072-1078, PMID: [20235191](#)

GID: 2207; Last update: 23.03.2010

Wissenschaftliche Studien (2010)

Vibration treatment in cerebral palsy: A randomized controlled pilot study

In this 6-month trial, twenty children with cerebral palsy (age 6.2 to 12.3 years; 6 girls) were randomized to either continue their school physiotherapy program unchanged or to receive 9 minutes of side-altern [weiter...](#)

Verfasser: Ruck J, Chabot G, Rauch F

Quelle: J Musculoskelet Neuronal Interact., **2010**; 10(1): 77-83, PMID: [20190383](#)

GID: 2173; Last update: 11.03.2010

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2009)

Bone loss in Pompe disease: novel application of Vibration Training and High Resolution peripheral Quantitative Computed Tomography (HR-pQCT)

We report that vibration training can improve bone architecture in 2 adults with Pompe disease with osteopenia and ambulatory disability. [weiter...](#)

Verfasser: Khan Q, Boyd S, Ramage B, Robu I, McNeil C, Hanley D, Casey R

Quelle: 2009;

Schlagworte: Bone Parameters, Pompe, Bone Mass, Bone Quality

#GRFS142

GID: 2107; Last update: 18.12.2009

Pressestimmen (2009)

Die Lebensqualität verbessern

Verfasser: Portius, J

Quelle: Patienten-Zeitung Universitätsklinikum Ulm, **2009**; 14/107:

Schlagworte: Polyneuropathie

GID: 2117; Last update: 18.12.2009

Weitere Informationen: [Original Article](#) 

Download: 

Pressestimmen (2007)

Vibriierende Erfindung aus der Raumfahrt hilft

2008 wird das Jahr der Vibrationen: Dann nämlich übernehmen die Krankenkassen die Kosten für eine sehr spezielle Therapie, deren Grundlagen in der Raumfahrtforschung liegen: die Vibrationstherapie. Gegen Mus [weiter...](#)

Verfasser: von der Weiden, S

Quelle: Die Welt Online, **2007**;

GID: 1959; Last update: 28.09.2009

Weitere Informationen: [Original Article](#) 

Pressestimmen (2007)

Wie die Raumfahrt gelähmten Kindern hilft

. Vibrationstherapie hilft beim Muskel- und Knochenaufbau - Die Krankenkassen sind überzeugt [weiter...](#)

Verfasser: Von Der Weiden S

Quelle: Die Welt Online, **2007**;

GID: 1962; Last update: 28.09.2009

Weitere Informationen: [Original Article](#) 

Pressestimmen (2006)

Trainingsgerät aus dem Weltraum hilft Kindern im Rollstuhl

Eine weltweit einmalige Therapie mit dem Trainingsgerät Galileo in Köln bringt Kindern im Rollstuhl mehr Beweglichkeit und Lebensqualität. Mit dem ursprünglich für Astronauten konzipierten Vibrationsgerät [weiter...](#)

Verfasser: DPA

Quelle: Die Welt Online, **2006**;

GID: 1964; Last update: 28.09.2009

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Publikationen (2009)

Vibration therapy

Whole-body vibration training is a method for muscle strengthening that is increasingly used in a variety of clinical situations. Key descriptors of vibration devices include the frequency, the amplitude, and t [weiter...](#)

Verfasser: Rauch F

Quelle: Dev Med Child Neurol., **2009**; 51 Suppl 4: 166-8, PMID: [19740225](#) 

GID: 1951; Last update: 23.09.2009

Wissenschaftliche Studien (2009)

Side-alternating vibration training improves muscle performance in a patient with late-onset pompe disease

Side-alternating vibration training (SAVT) was used for 15 weeks in a patient with Late-onset Pompe disease who had never used enzyme replacement or chaperone therapy. Prior to the use of SAVT, the patient had [weiter...](#)

Verfasser: Khan A, Ramage B, Robu I, Benard L

Quelle: Case Report Med., **2009**; 2009: 741087, PMID: [19710926](#) 

GID: 1953; Last update: 23.09.2009

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2008)

The acute effect of vibration exercise on concentric muscular characteristics

This study was designed to compare the acute effect of vibration exercise with a concentric-only activity (arm cranking) on concentric-only muscle action using an upper body isoinertial exercise. Twelve healthy [weiter...](#)

Verfasser: Cochrane DJ, Stannard SR, Walmsely A, Firth EC

Quelle: J Sci Med Sport., **2008**; 11(6): 527-34, PMID: [17714990](#) 

Schlagworte: Galileo Dumbbell, Galileo Hantel, Vibrationshante, vibrating Dumbbell, Galileo Mano, WarmUp #GRFS61

GID: 1945; Last update: 22.09.2009

Wissenschaftliche Studien (2009)

Auswirkung eines Vibrations- und Krafttrainings auf die Beinmuskulatur bei Gonarthrose Patienten Efficiency of Vibration or Strength Training for Knee Stability in Osteoarthritis of the Knee

(English) Background: The diagnosis of osteoarthritis of the knee is becoming more common as life expectancy increases. Strength training has been proven to be an effective treatment. The aim of the present [weiter...](#)

Verfasser: Rapp W, Boeer J, Albrich C, Heitkamp HC

Quelle: Akt Rheumatol, **2009**; 34/4: 240-245

Schlagworte: Osteoarthritis, isometric force, pain

#GRFS75

GID: 1886; Last update: 07.08.2009

Fachartikel (2006)

Ein Sturz bricht auch das Selbstbewusstsein

Der Unterarm bricht nicht beim Schreiben und der Oberschenkel nicht beim Gehen. Man muss schon hinfallen. Hinfallen und sich die Knochen brechen – nur ein Problem für alte Menschen? Was man dagegen tun kann. [weiter...](#)

Verfasser: Runge M

Quelle: Orthoprot., **2006**; 5: 14-16

GID: 1873; Last update: 30.07.2009

Weitere Informationen: [Original Article](#) 

Pressestimmen (2008)

Heilkraft der Muskeln

Muskeln können viel mehr als uns nur zu bewegen: Muskeln arbeiten dem Immunsystem zu, regen den Stoffwechsel an und schützen sogar vor Osteoporose. Forscher sind sicher: kräftige Muskeln sind ein wahrer Jung [weiter...](#)

Verfasser: Axel Wagner

Quelle: Odysso - Wissen entdecken, SWR Fernsehen, Sendebroschüre, **2008**; 2-3

Schlagworte: Osteoporose, Schlaganfall, Prävention, Geriatrie

GID: 1788; Last update: 26.03.2009

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2008)

The effect of bed rest and an exercise countermeasure on leg venous function

This study was performed to assess the effect of resistive vibration exercise during bed rest deconditioning on venous vascular dimension and function, as measured with ultrasound in the popliteal vein. Sixteen [weiter...](#)

Verfasser: van Duijnhoven NT, Bleeker MW, de Groot PC, Thijssen DH, Felsenberg D, Rittweger J, Hopman MT

Quelle: Eur J Appl Physiol., **2008**; 104(6): 991-8, PMID: [18719936](#) 

Schlagworte: BBR, Berlin BedRest Study, ESA, Galileo Space

GID: 1774; Last update: 06.02.2009

Pressestimmen (2008)

Kilian wird gerüttelt

Verfasser: Cordier S

Quelle: Leben mit Down-Syndrom, **2008**; 58: 51

Schlagworte: Down-Syndrom Kleinkind

GID: 1771; Last update: 28.01.2009

Download: 

Pressestimmen (2008)

Pflegerische Interventionen und Möglichkeiten bei krebstherapiebedingter Polyneuropathie

Verfasser: Kirchner, E

Quelle: DLH-INFO 37, **2008**; 13: 19-21

GID: 1699; Last update: 21.01.2009

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2009)

High-density surface EMG study on the time course of central nervous and peripheral neuromuscular changes during 8 weeks of bed rest with or without resistive vibration exercise

The aim of the present study was to assess the time course and the origin of adaptations in neuromuscular function as a consequence of prolonged bed rest with or without countermeasure. Twenty healthy males vol [weiter...](#)

Verfasser: Mulder ER, Gerrits KH, Kleine BU, Rittweger J, Felsenberg D, de Haan A, Stegeman DF

Quelle: J Electromyogr Kinesiol., **2009**; 19(2): 208-18, PMID: [17560125](#) 

Schlagworte: BBR, Berlin BedRest Study, ESA, Galileo Space

GID: 1769; Last update: 21.01.2009

Wissenschaftliche Studien (2008)

Whole body vibration: a new therapeutic approach to improve muscle function in cystic fibrosis

Disease progression in cystic fibrosis (CF) leads to muscle wasting and loss of muscle function. The aim of this prospective pilot study was to evaluate the effects of whole body vibration (WBV) on muscle funct [weiter...](#)

Verfasser: Rietschel E, van Koningsbruggen S, Fricke O, Semler O, Schoenau E

Quelle: Int J Rehabil Res., **2008**; 31(3): 253-6, PMID: [18708849](#) 

Schlagworte: Cologne Concept, Kölner Konzept, Cystic Fibrosis, Mukoviszidose
#GRFS120

GID: 1786; Last update: 21.01.2009

Wissenschaftliche Studien (2009)

Longitudinal Assessment of Bone Density and Structure in an Incident Cohort of Children With Crohn's Disease

BACKGROUND & AIMS: The impact of childhood Crohn's disease (CD) and its therapies on volumetric bone mineral density (vBMD), bone structure, and muscle mass have not been established. The objective of this long [weiter...](#)

Verfasser: Dubner SE, Shults J, Baldassano RN, Zemel BS, Thayu M, Burnham JM, Herskovitz RM, Howard KM, Leonard MB

Quelle: Gastroenterology., **2009**; 136: 123-130, PMID: [19026647](#) 

Schlagworte: bone geometry, Crohn, muscle children bone geometry

GID: 1670; Last update: 12.12.2008

Wissenschaftliche Studien (2001)

Epidemiology of falls

Verfasser: Masud T, Morris RO

Quelle: Age Ageing., **2001**; 30 Suppl 4: 3-7, PMID: [11769786](#) ⓘ

GID: 1617; Last update: 19.11.2008

Weitere Informationen: [Original Article](#) ⓘ

Wissenschaftliche Publikationen (2008)

Energy metabolism in human calf muscle performing isometric plantar flexion superimposed by 20-Hz vibration

Vibration training is commonly expected to induce an active muscle contraction via a complex reflex mechanism. In calf muscles of 20 untrained subjects, the additional energy consumption in response to vibratio [weiter...](#)

Verfasser: Zange J, Haller T, Müller K, Liphardt AM, Mester J

Quelle: Eur J Appl Physiol., **2008**; PMID: [18953563](#) ⓘ

GID: 1576; Last update: 11.11.2008

Fachartikel (2008)

Innovative Wege und Aufgaben in der Physiotherapie und Rehabilitation von bewegungsgestörten Kindern und Jugendlichen

Am Beispiel des Rehabilitationskonzeptes „Auf die Beine“ wird gezeigt wie die Integration von existierenden klassischen Therapieformen mit funktionellen geräteunterstützten Therapieverfahren Muskel – un [weiter...](#)

Verfasser: Schönau E, Langensiepen S, Junghänel S, Semler O (Publikation aus 2008)

Quelle: Kinder- und Jugendmedizin, **2008**; 7: 438-442

Schlagnworte: CP, OI, SMA, Cologne Concept, Kölner Konzept

#GRFS130

GID: 1534; Last update: 14.10.2008

Wissenschaftliche Studien (2007)

The Response of Elderly Female fast Gait to Whole Body Vibration

Older adults walk more slowly than healthy young adults at fast and normal walking speeds. These age-associated changes in mobility impact upon daily function. A slower gait, for example, may reduce the older a [weiter...](#)

Verfasser: Lorentzen HC

Quelle: Thesis, **2007**;

Schlagnworte: Galileo (Eigenbau)

GID: 1443; Last update: 22.08.2008

Fachartikel (2008)

Auf die Beine - mit integrativer funktioneller Physiotherapie

Verfasser: O Semler, S Langensiepen, E Schönau

Quelle: Praxis der Kinder-Reha 1 (2008) 31 - 34, **2008**; 1: 31-34

GID: 1409; Last update: 23.07.2008

Wissenschaftliche Studien (2008)

Whole body vibration in cystic fibrosis - a pilot study

Introduction: In cystic fibrosis (CF), bone mass deficits as well as a lack of muscle mass and force have been described. The bone mass deficits are thought to be at least in part secondary to the reduced muscul [weiter...](#)

Verfasser: Roth J, Wust M, Rawer R, Schnabel D, Armbrecht G, Beller G, Rembitzki I, Wahn U, Felsenberg D, Staab D

Quelle: J Musculoskelet Neuronal Interact., **2008**; 8(2): 179-87, PMID: [18622087](#)

Schlagnworte: Cystic Fibrosis, Whole Body Vibration, Bone, Muscle, Mechanography

#GRFS126

GID: 1382; Last update: 22.07.2008

Weitere Informationen: [Original Article](#)

Pressestimmen (2008)

Schritt für Schritt zurück ins Leben

Andre Schmitt kämpft mit den Folgen eines schweren Unfalls. Der ADAC-Unfallschutz unterstützt ihn dabei. [weiter...](#)

Quelle: ADAC motorwelt, **2008**; 3: 74-75

GID: 1297; Last update: 28.03.2008

Wissenschaftliche Studien (2008)

Whole body vibration versus conventional physiotherapy to improve balance and gait in Parkinson"s disease.

OBJECTIVE: To compare the effects of whole body vibration (WBV) and conventional physiotherapy (PT) on levodopa-resistant disturbances of balance and gait in idiopathic Parkinson"s disease (PD).
DESIGN: [weiter...](#)

Verfasser: Ebersbach G, Edler D, Kaufhold O, Wissel J.

Quelle: Arch Phys Med Rehabil., **2008**; 89(3): 399-403, PMID: [18295614](#)

Schlagnworte: Parkinson

#GRFS88

GID: 1285; Last update: 19.03.2008

Wissenschaftliche Studien (2005)

A cybernetic approach to osteoporosis in anorexia nervosa

A group of 25 female individuals, who had been admitted to the University Hospital with the diagnosis of anorexia nervosa (AN) 3 to 10 years before, was seen for a follow-up visit in the hospital. These women g [weiter...](#)

Verfasser: Fricke O, Tutlewski B, Stabrey A, Lehmkuhl G, Schöenau E

Quelle: J Musculoskelet Neuronal Interact., **2005**; 5(2): 155-61, PMID: [15951632](#)

GID: 1165; Last update: 03.03.2008

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2004)

Is muscle power output a key factor in the age-related decline in physical performance? A comparison of muscle cross section, chair-rising test and jumping power

Ageing compromises locomotor capacity and is associated with an increased risk of falls. Several lines of evidence indicate that both changes in muscle mass and performance are causative. Most studies, however, [weiter...](#)

Verfasser: Runge M, Rittweger J, Russo CR, Schiessl H, Felsenberg D

Quelle: Clin Physiol Funct Imaging., **2004**; 24(6): 335-40, PMID: [15522042](#)

GID: 1148; Last update: 28.02.2008

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2007)

Neuromuscular adaptations during long-term bed rest

Verfasser: Mulder ER

Quelle: Dissertation, **2007**;

Schlagworte: BBR, Berlin BedRest Study, ESA, Galileo Space

GID: 1111; Last update: 18.02.2008

Download: 

Wissenschaftliche Studien (2008)

Whole body vibration and dynamic restraint.

The purpose of this study was to identify changes due to whole body vibration in peroneus longus (PL) activation following ankle inversion perturbation. Participants were 22 (age 22.1 +/- 1.8 yrs, ht 168.8 +/- [weiter...](#)

Verfasser: Hopkins T, Pak JO, Robertshaw AE, Feland JB, Hunter I, Gage M

Quelle: Int J Sports Med, **2008**; 29(5): 424-8, PMID: [17879889](#)

GID: 1107; Last update: 17.02.2008

Pressestimmen (2007)

Galileo® – Vibrationstraining – durch die Krankenkassen zertifiziertes Präventionsprogramm, wird auf der MEDICA 2007 vorgestellt

Galileo – Vibrationstraining – durch die Krankenkassen zertifiziertes Präventionsprogramm, wird auf der MEDICA 2007 vorgestellt Die Zahl der von Rückenschmerz geplagten Bundesbürger hat in den letzte [weiter...](#)

Verfasser: Silva A (Artikel aus 2007)

Quelle: Fitness PR, **2007**;

GID: 589; Last update: 04.01.2008

Weitere Informationen: [Original Article](#)

Pressestimmen (2005)

Spezielles Vibrationstraining

Ein sogenanntes Vibrationstraining eignet sich zur Behandlung der Parkinson- Erkrankung. Untersuchungen zeigten, daß ein entsprechendes Training Symptome vermindern, die Muskulatur stärken und die Koordinat [weiter...](#)

Verfasser: dpa

Quelle: Hamburger Abendblatt, **2005**;

Schlagworte: Parkinson

GID: 602; Last update: 04.01.2008

Pressestimmen (2006)

Hauptsache Gesund: Trainings-System Galileo

Bewegung ist der Schlüssel zu weniger Schmerzen. Dabei hilft ein besonderes Trainingsgerät kombiniert mit einer speziellen Liege, das so genannte Galileo-System. Die Füße berühren eine Art Hightech-Wippe, [weiter...](#)

Quelle: MDR, **2006**;

GID: 604; Last update: 04.01.2008

Weitere Informationen: [Original Article](#) 

Pressestimmen (2004)

Physiotherapie mit Her(t)z Galileo 2000 - Kräftigung für Muskeln und Knochen

Für Menschen, die oft über Rückenschmerzen klagen, aber auch für Leistungssportler bietet die Abteilung Physiotherapie am Krankenhaus Bad Cannstatt eine innovative Behandlungsmethode mit dem Galileo 2000. [weiter...](#)

Verfasser: uli (Artikel aus 2004)

Quelle: Cannstatter Zeitung, **2004**;

GID: 608; Last update: 04.01.2008

Pressestimmen (2004)

Galileo hilft Alten, Astronauten und Gelähmten

Ein Esslinger Chefarzt und ien Pforzheimer Ingenieur entwickeln Trainingsgerät für Muskeln und Knochen [weiter...](#)

Verfasser: Schnedler L

Quelle: Leonberger Kreiszeitung, **2004**;

Schlagworte: BBR

GID: 611; Last update: 04.01.2008

Download: 

Pressestimmen (2004)

Der Muskelmacher

Ein deutscher Professor hat für Astronauten ein Trainingsgerät entwickelt, das starke Muskeln und stabile Knochen produziert. Schon bald kann die Wundermaschine aber auch bei höchst irdischen Leiden helfen. [weiter...](#)

Verfasser: Felsenberg D

Quelle: Besser Leben, **2004**;

Schlagworte: BBR

GID: 618; Last update: 04.01.2008

Pressestimmen (2003)

Hufeland-Preis 2002: Bewegung ist Osteoporose-Prävention

Verfasser: dah

Quelle: Rheinisches Ärzteblatt, **2003**;

GID: 621; Last update: 04.01.2008

Download: 

Pressestimmen (2003)

Hufelandpreis Zeitungartikel

Mit dem Hufeland-Reis 2002 wurden jetzt drei Kölner Pädiater ausgezeichnet. Den mit 20000Euro dotierten, von der Deutschen Ärzteversicherung AG gestiftete Preis zur Förderung der Präventivmedizin erhielten [weiter...](#)

Verfasser: sk

Quelle: Pädiatrische Nachrichten, **2003**;

GID: 622; Last update: 04.01.2008

Pressestimmen (2003)

Hufelandpreis Zeitungartikel

Die funktionelle Muskel-Knochen-Einheit im Kindes- und Jugendalter: Konsequenzen für Prävention und Klassifikation der Osteoporose [weiter...](#)

Quelle: Mobiles Leben, **2003**;

GID: 623; Last update: 04.01.2008

Pressestimmen (2003)

Hufeland-Preis für Kölner Forschungsgruppe - Neuer Erkenntnisse zur Prävention der osteoporose

Professor Eckhard Schönau, Dr. Christina Neu und Privatdozent Dr. Frank Rauch, Klinik und Poliklinik für Kinderheilkunde, sind mit dem Hufeland-Preis 2002 ausgezeichnet worden. Der mit 20.000 Euro dotierte, [weiter...](#)

Verfasser: unik

Quelle: Kölner Universitäts Journal, **2003**; 2:

GID: 626; Last update: 04.01.2008

Download: 

Pressestimmen (2003)

Hufeland-Preis 2002: Die funktionelle Muskel-Knochen-Einheit im Kindes- und Jugendalter: Konsequenzen für Prävention und Diagnostik der osteoporose

Verfasser: Weinbauer GF

Quelle: Mitteilungen der Deutsche Gesellschaft für Endokrinologie, **2003**; 27/3:

GID: 631; Last update: 04.01.2008

Download: 

Wissenschaftliche Studien (2003)

Änderung der Kraft und Stellenwert verschiedener Kraftmessmethoden bei älteren Frauen

Problemstellung: Der Verlust an Muskelkraft und -leistung ist bedeutsamer Risikofaktor für das erhöhte Sturz und Frakturrisiko im Alter. Die Erfassung der Muskelkraft/-leistung und des Muskelstatus spielt d [weiter...](#)

Verfasser: Lammel C, Siegrist M, Zelger O, Jeschke D

Quelle: D. Zeitschrift Sportmed., Po-059, **2003**; 54(7/8): 67

Schlagworte: elderly force

GID: 577; Last update: 02.01.2008

Fachartikel (2002)

Wacklig auf den Beinen? Das mißt ein innovatives Gerät für Geriater

Meßsystem zeigt Risiko alter Menschen für Stürze und Frakturen an / Rehabilitationserfolge können einfach kontrolliert werden. BERLIN (wma/ikr). Bei älteren Menschen kann Stürzen und damit auch Knochenf [weiter...](#)

Verfasser: wma/ikr (Artikel aus 2002)

Quelle: Ärzte Zeitung, **2002**;

GID: 580; Last update: 02.01.2008

Wissenschaftliche Studien (2005)

Hormone and lipolytic responses to whole body vibration in young men

This study examined the effects of whole-body vibration (WBV) on the hormone and lipolytic responses. Eight male subjects performed WBV and control (CON) trials on separate days. The WBV session consisted of 10 [weiter...](#)

Verfasser: Goto K, Takamatsu K

Quelle: Jpn J Physiol., **2005**; 55(5): 279-84, PMID: [16271160](#)

GID: 568; Last update: 18.12.2007

Wissenschaftliche Studien (2007)

Effects of vibration exercise on muscle performance and mobility in an older population

This study was designed to investigate the effects of vibration on muscle performance and mobility in a healthy, untrained, older population. Forty-three participants (23 men, 20 women, 66-85 y old) performed t [weiter...](#)

Verfasser: Rees S, Murphy A, Watsford M

Quelle: J Aging Phys Act., **2007**; 15(4): 367-81, PMID: [18048942](#)

Schlagworte: elderly mobility

GID: 573; Last update: 18.12.2007

Wissenschaftliche Studien (2007)

Variation in neuromuscular responses during acute whole-body vibration exercise

PURPOSE: Leg muscle strength and power are increased after whole-body vibration (WBV) exercise. These effects may result from increased neuromuscular activation during WBV; however, previous studies of neuromus [weiter...](#)

Verfasser: Abercromby AF, Amonette WE, Layne CS, McFarlin BK, Hinman MR, Paloski WH

Quelle: Med Sci Sports Exerc., **2007**; 39(9): 1642-50, PMID: [17805098](#)

GID: 305; Last update: 17.12.2007

Fachartikel (2006)

USE OF VIBRATION-ASSISTED EXERCISE IN FIBROMYALGIA PATIENTS

Objective: Vibratory-assisted exercise is a relatively new concept in the US; however, there is supportive research in Europe indicating its effectiveness on athletes and the general population through provided [weiter...](#)

Verfasser: Danko, Michael BS; Le, Vu BS; Todd, Carol; Waylonis, George MD

Quelle: 2006; 85(3): 251

GID: 499; Last update: 17.12.2007

Wissenschaftliche Studien (2007)

Ergebnisse einer monozentrischen Studie zur Verbesserung der Mobilität und Muskelfunktion bei Kindern und Jugendlichen mit Osteogenesis Imperfecta

Verfasser: Schönau E, Neu CM, Mokov E, Wassmer G, Manz F

Quelle: 1. Kölner Symposium: Forschung in der pädiatrischen Physiotherapie, 2007;

Schlagnote: Kölner Konzept

GID: 293; Last update: 16.12.2007

Download: 

Wissenschaftliche Studien (2001)

Motor rehabilitation of spinal cord dysfunction by means of whole body vibration

Objective: To explore (1) the efficacy of whole body vibration (WBV) in inducing reflex standing and, specifically, (2) the progress of persons with spinal cord dysfunction of 3 differing etiologies. Desi [weiter...](#)

Verfasser: Gianutsos JG, Oakes LC, Siasoco V, Appelblatt S, Hamel J, Gold JT

Quelle: AAPMR, 2001;

Schlagnote: back

GID: 372; Last update: 10.12.2007

Wissenschaftliche Studien (2000)

Use of a Therapeutic Ranging/Exercise Program in the Rehabilitation of a Person with Progressive Supranuclear Palsy

Verfasser: Gianutsos JG

Quelle: 3rd Mediterranean Conference of Physical Medicine and rehabilitation, 2000;

Schlagnote: parkinson

GID: 373; Last update: 10.12.2007

Download: 

Wissenschaftliche Studien (2000)

The Benefits of Whole Body Vibration in the Rehabilitation of a Pediatric Patient with Quadriplegia

A 73-year-old male diagnosed six years earlier was advanced Progressive Supranuclear Palsy (PSP), an atypical form of Parkinsonism, had deteriorated over several months despite attempts to adjust medication. He [weiter...](#)

Verfasser: Gianutsos JG, Ahn JH, Oakes LV, Richter EF, Grynbaum BB, Thistle HG

Quelle: 3RD MEDITERRANEAN CONGRESS of Physical Medicine and Rehabilitation, Athens, **2000**;

GID: 392; Last update: 10.12.2007

Wissenschaftliche Studien (2000)

Use of a Therapeutic Ranging Program in the Rehabilitation of a Person with Progressive Supranuclear Palsy (Parkinson)

Verfasser: Gianutsos JG, Richter EF, Hutchinson M

Quelle: 5th International Congress of Physical Medicine and Rehabilitation, Athens, **2000**;

Schlagworte: Parkinson

GID: 188; Last update: 10.12.2007

Download: 

Wissenschaftliche Studien (2000)

The Effects of Whole Body Vibration on Reflex-Induced Standing in Persons with Chronic and Acute Spinal Cord Injury

Verfasser: Gianutsos JG, Ahn JH, Richter EF, Grynbaum BB, Thistle HG

Quelle: 5th International Congress of Physical Medicine and Rehabilitation, Athens, **2000**;

GID: 189; Last update: 10.12.2007

Download: 

Wissenschaftliche Studien (2003)

Effect On Muscles Of Mechanical Vibrations Produced By The Galileo 2000 in Combination with Physical Therapy in Training Female Pelvic Floor Weakness

Verfasser: von der Heide S, Emons G, Hilgers R, Viereck V

Quelle: international urology conference, **2003**;

GID: 349; Last update: 06.12.2007

Wissenschaftliche Studien (2001)

Einfluss einer innovativen Form des Krafttrainings auf kardiopulmonale und muskuläre Funktionsgrößen sowie sympathoadrenerge Reaktionen

Problemstellung: Für die neuromuskuläre Erregbarkeit und die lokalmuskuläre Hämodynamik konnten positive Effekte nach einer oszillierenden Intervention (Amplitude von 12 mm, 25-30 Hz) mit einem innovativen [weiter...](#)

Verfasser: Wameling P, Hartard M, Kleinmond C, Schiessl H, Jeschke D (Tagungsbeitrag aus 2001)

Quelle: 37. Deutscher Kongresses für Sportmedizin und Prävention, Rotenburg a.d. Fulda, **2001**;

GID: 394; Last update: 05.12.2007

Download: 

Wissenschaftliche Studien (2006)

Long-term effects of 6-week whole-body vibration on balance recovery and activities of daily living in the postacute phase of stroke: a randomized, controlled trial

BACKGROUND AND PURPOSE: The long-term effects of 6-weeks whole-body vibration, as a novel method of somatosensory stimulation, on postural control and activities of daily living were compared with those of 6 [weiter...](#)

Verfasser: van Nes IJ, Latour H, Schils F, Meijer R, van Kuijk A, Geurts AC

Quelle: Stroke., **2006**; 37(9): 2331-5, PMID: [16902175](#) 

Schlagworte: supratentorial stroke

GID: 397; Last update: 05.12.2007

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2004)

Short-term effects of whole-body vibration on postural control in unilateral chronic stroke patients: preliminary evidence

The short-term effects of whole-body vibration as a novel method of somatosensory stimulation on postural control were investigated in 23 chronic stroke patients. While standing on a commercial platform, patients [weiter...](#)

Verfasser: van Nes IJ, Geurts AC, Hendricks HT, Duysens J

Quelle: Am J Phys Med Rehabil., **2004**; 83(11): 867-73, PMID: [15502741](#) 

Schlagworte: Stroke, Schlaganfall, Balance

#GRFS89

GID: 273; Last update: 04.12.2007

Fachartikel (2006)

Vibrationstraining in der Physiotherapie - Wippen mit Wirkung

Beim Vibrationstraining stehen die Patienten auf einer vibrierenden Platte und müssen ausgleichende Bewegungen machen, um ihre Ausgangshaltung beizubehalten. Die dabei entstehenden Kräfte bewirken unterschied [weiter...](#)

Verfasser: Burkhardt A

Quelle: Physiopraxis, **2006**; 9: 22-25

Schlagworte: Side Alternation vs. vertical

GID: 286; Last update: 04.12.2007

Wissenschaftliche Studien (2007)

High-frequency whole-body vibration improves balancing ability in elderly women

OBJECTIVE: To investigate the efficacy of high-frequency whole-body vibration (WBV) on balancing ability in elderly women. **DESIGN:** Randomized controlled trial. Subjects were randomized to either the WBV interve [weiter...](#)

Verfasser: Cheung WH, Mok HW, Qin L, Sze PC, Lee KM, Leung KS

Quelle: Arch Phys Med Rehabil., **2007**; 88(7): 852-7, PMID: [17601464](#) 

Schlagworte: elderly balance, Sturzrisiko, fall risk

#GRFS97

GID: 346; Last update: 04.12.2007

Wissenschaftliche Studien (2003)

Effect of Whole Body Vibration on Muscular Performance, Balance, and Bone

Verfasser: Torvinen S

Quelle: Dissertation, **2003**;

Schlagworte: Galileo vs. Kuntotäry

GID: 353; Last update: 04.12.2007

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2003)

Controlled Whole Body Vibrations Improve Health Related Quality Of Life In Elderly Patients

Objective: To investigate the effects of controlled whole body vibrations (CWBV) exercises on global health in elderly patients. Methods: 42 volunteers patients, resident in a nursing home, were randomized [weiter...](#)

Verfasser: Bruyere O, Wuidart MA, Di Palma E, Reginster JY

Quelle: 67th Annual Meeting of American College of Rheumatology, **2003**;

GID: 368; Last update: 04.12.2007

Wissenschaftliche Studien (2006)

Einfluss mechanischer oszillierender Stimuli im Rahmen der frühfunktionellen Aktivierung des propriozeptiven Systems auf die Oberschenkelmuskulatur nach Rekonstruktion des vorderen Kreuzbandes des Kniegelenkes

Im Rahmen dieser Studie wurde ergänzend zu den „allgemeinen“ rehabilitativen Maßnahmen der Einfluß mechanischer Stimuli mittels oszillierender Interventionen vom Galileo 2000 auf die berschenkelmuskulatur [weiter...](#)

Verfasser: Kombrink M

Quelle: Dissertation, **2006**;

Schlagnworte: kreuzband kniegelenk

GID: 334; Last update: 03.12.2007

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2006)

Mechanical impacts to the human body by different vibration training devices

Verfasser: Spitzenfeil P, Stritzker M, Kirchbichler A, Tusker F, Hartmann U, Hartard H

Quelle: Journal of Biomechanics, **2006**; Vol. 39 (Suppl 1): 196

Schlagnworte: Galileo vs. Power Plate

GID: 339; Last update: 03.12.2007

Wissenschaftliche Studien (2005)

EFFECT OF KNEE FLEXION ANGLE ON NEUROMUSCULAR RESPONSES TO WHOLE-BODY VIBRATION

Verfasser: Abercromby A, Amonette W, Paloski W, Hinman M

Quelle: Presented Abstract at NSCA National Conference, **2005**;

GID: 344; Last update: 03.12.2007

Download: 

Wissenschaftliche Studien (2003)

Safety of Whole-Body Vibration Exercise for Heart Transplant Recipients

Purpose: The benefits of whole-body vibration exercise (WBV) have not yet been recognized in heart transplant recipients although these patients often show a severe loss in skeletal muscle strength and bone min [weiter...](#)

Verfasser: Crevenna R, Fialka-Moser V, Rödler S, Keilani M, Zöch C, Nuhr M, Quittan M, Wolzt M

Quelle: Phys Rehab Kur Med, **2003**; 13: 286-290

Schlagworte: heart transplant, safety

#GRFS150

GID: 266; Last update: 02.12.2007

Wissenschaftliche Studien (2005)

Vascular adaptation to deconditioning and the effect of an exercise countermeasure: results of the Berlin Bed Rest study

Deconditioning is a risk factor for cardiovascular disease. The physiology of vascular adaptation to deconditioning has not been elucidated. The purpose of the present study was to assess the effects of bed res [weiter...](#)

Verfasser: Bleeker MW, De Groot PC, Rongen GA, Rittweger J, Felsenberg D, Smits P, Hopman MT

Quelle: J Appl Physiol., **2005**; 99(4): 1293-300, PMID: [15932956](#)

Schlagworte: BBR, Berlin BedRest Study, ESA, Galileo Space

GID: 283; Last update: 02.12.2007

Wissenschaftliche Studien (2007)

Preliminary results on the mobility after whole body vibration in immobilized children and adolescents

The present article is a preliminary report on the effect of Whole Body Vibration (WBV) on the mobility in long-term immobilized children and adolescents. WBV was applied to 6 children and adolescents (diagnose [weiter...](#)

Verfasser: Semler O, Fricke O, Vezyroglou K, Stark C, Schoenau E

Quelle: J Musculoskelet Neuronal Interact., **2007**; 7(1): 77-81, PMID: [17396011](#)

Schlagworte: Kölner Konzept

GID: 296; Last update: 02.12.2007

Weitere Informationen: [Original Article](#)

Wissenschaftliche Studien (2006)

Submaximal aerobic exercise with mechanical vibrations improves the functional status of patients with chronic fatigue syndrome

AIM: Chronic fatigue syndrome (CFS) is an illness characterised by disabling fatigue of uncertain aetiology and other nonspecific symptoms. Typically CFS patients complain of a severe fatigue made worse by ex [weiter...](#)

Verfasser: Saggini R, Vecchiet J, Iezzi S, Racciatti D, Affaitati G, Bellomo RG, Pizzigallo E

Quelle: Eura Medicophys., **2006**; 42(2): 97-102, PMID: [16767057](#)

Schlagworte: Chronic Fatigue Syndrome, Power, Muscle Function, Gait Speed

#GRFS71, #GRFS62

GID: 298; Last update: 02.12.2007

Wissenschaftliche Publikationen (2004)

Die Ergebnisse Berliner BedRest-Studie

Verfasser: Felsenberg D

Quelle: Statement, **2004**;

Schlagworte: BBR, Berlin BedRest Study, ESA, Galileo Space

GID: 311; Last update: 02.12.2007

Download: 

Fachartikel (2006)

Lokomotorisches Assessment / Locomotor Assessment

Einschränkungen der Fortbewegung sind die pathogenetische Endstrecke des Alterungsprozesses und vieler Erkrankungen. Die quantifizierende Messung von Bewegung gehört deshalb unverzichtbar zu einer medizinisch [weiter...](#)

Verfasser: Runge M (Artikel aus 2006)

Quelle: arthritis + rheuma, **2006**; 26/4: 217-224

GID: 56; Last update: 02.12.2007

Fachartikel (2004)

Von der Raumfahrt zur Kinderklinik

Verfasser: Schönau E

Quelle: Mobiles Leben, **2004**; 4: 12-13

GID: 314; Last update: 02.12.2007

Fachartikel (2004)

Stürze und wie man sie verhindert

Verfasser: Runge M

Quelle: Mobiles Leben, **2004**; 4: 4-7

Schlagworte: elderly falls

GID: 315; Last update: 02.12.2007

Grundlagenstudien (2001)

Mobil bleiben - Pflege bei Gehstörungen und Sturzgefahr

Die Selbstständigkeit älterer Menschen wird durch kaum ein anderes Problem so stark bedroht wie durch die Einschränkung der Bewegungsfähigkeit und die damit verbundene Sturzgefahr. Stürze im Alter sind zu [weiter...](#)

Verfasser: Runge M, Rehfeld G

Quelle: Schlütersche Verlag , ISBN 3-87706-597-X, **2001**;

GID: 318; Last update: 02.12.2007

Pressestimmen (2007)

Auf die Beine

Mobilität ist für viele Kinder und Jugendliche leider keine Selbstverständlichkeit. gerade im Kindes- und Jugendalter ist jedoch das Stehen und gehen für die Entwicklung besonders wichtig. Dabei haben diese [weiter...](#)

Verfasser: Reiser U (Artikel aus 2006)

Quelle: 2007; 14-17

GID: 321; Last update: 02.12.2007

Download: 

Pressestimmen (2006)

Auf die Beine

Vibrationstraining bietet innovative Therapiemöglichkeit für Kinder im Rollstuhl. [weiter...](#)

Verfasser: Karl M (Artikel aus 2006)

Quelle: Alexianer, **2006**; 12: 24-25

GID: 322; Last update: 02.12.2007

Fachartikel (2007)

Muskeltraining bei SMA-Patient erfolgreich

Bei der physiotherapeutischen Behandlung der Spinalen Muskelatrophie (SMA) ist bezüglich der Muskelkräftigung Sorgfalt geboten - so lernt man es als Physiotherapeutin der Ausbildung und findet es sogar in der [weiter...](#)

Verfasser: Stark, C Hermes R, Semler O, Schönau E

Quelle: Zeitschrift für Physiotherapeuten, **2007**; 59: 340-345

Schlagworte: Kölner Konzept

GID: 323; Last update: 02.12.2007

Pressestimmen (2006)

Schritte mit Hindernissen

Gehen auf zwei Beinen – das bedeutet für die meisten von uns etwas genauso Selbstverständliches wie Ein- und Ausatmen. Dabei ist der menschliche Gang ein im wahrsten Sinne des Wortes hochkomplexer Vorgang, [weiter...](#)

Verfasser: Binger K

Quelle: Orthopress, **2006**; 3: 28-30

GID: 330; Last update: 02.12.2007

Weitere Informationen: [Original Article](#) 

Pressestimmen (2006)

Laufen möchte ich

Es gibt Kinder, die sitzen von Geburt an im Rollstuhl. Sie leiden an mindestens zwei Krankheiten, an einer Nerven-, Muskel- oder Knochenerkrankung, die sie in den Rollstuhl gebracht hat. Und einer zweiten, die [weiter...](#)

Verfasser: Landschek I

Quelle: Mobiles Leben, **2006**; 1: 14-15


GID: 331; Last update: 02.12.2007

Wissenschaftliche Studien (2007)

Vibration exposure and biodynamic responses during whole-body vibration training

PURPOSE: Excessive, chronic whole-body vibration (WBV) has a number of negative side effects on the human body, including disorders of the skeletal, digestive, reproductive, visual, and vestibular systems. Whol [weiter...](#)

Verfasser: Abercromby AF, Amonette WE, Layne CS, McFarlin BK, Hinman MR, Paloski WH

Quelle: Med Sci Sports Exerc., **2007**; 39(10): 1794-800, PMID: [17909407](#) 

Schlagworte: Galileo vs. Power Plate

#GRFS18

GID: 169; Last update: 02.12.2007

Wissenschaftliche Studien (2002)

Effect of Whole Body Vibration Stimulus and Voluntary Contraction on Motoneuron Pool

We investigated the influence of transient whole body vibration and voluntary contraction on the motoneuron pool. Electromyographic recordings were obtained from the soleus muscle of 17 healthy subjects using s [weiter...](#)

Verfasser: NISHIHIRA Y, IWASAKI T, HATTA A, WASAKA T, KANEDA T, KUROIWA K, AKIYAMA S, KIDA T, RYOL K S

Quelle: Adv Exerc Sports Physiol, **2002**; 8/4: 83-86

Schlagworte: H-Reflex

GID: 162; Last update: 01.12.2007

Weitere Informationen: [Original Article](#) 

Wissenschaftliche Studien (2007)

Whole-body vibration induced adaptation in knee extensors; consequences of initial strength, vibration frequency, and joint angle

It was hypothesized that both vibration frequency and muscle length modulate the strengthening of muscles that is assumed to result from whole-body vibration (WBV). Length of knee extensor muscles during vibrat [weiter...](#)

Verfasser: Savelberg HH, Keizer HA, Meijer K

Quelle: J Strength Cond Res., **2007**; 21(2): 589-93, PMID: [17530984](#) 

GID: 173; Last update: 01.12.2007

Wissenschaftliche Studien (1999)

The Effect of Whole-Body Vibration on Mechanical Behaviour of Skeletal Muscle and Hormonal Profile

Verfasser: Bosco C, Colli R, Cardinale M, Tsarpela O, Bonifazi M

Quelle: Musculo-Skeletal Interactions, **1999**; 2: 67-76

Schlagworte: Hormonal Profile, Jumping Power

#GRFS65

GID: 211; Last update: 01.12.2007

Wissenschaftliche Studien (1999)

The Influence of Whole-Body Vibration on the Mechanical Behaviour of Skeletal Muscle

The aim of this study was to investigate the effects of whole-body vibrations (WBV) on the mechanical behaviour of human skeletal muscle. For this purpose, six female volleyball players at national level were r [weiter...](#)

Verfasser: Bosco C, Cardinale M, Colli R, Tihanyi J, von Duvillard SP, Viru A

Quelle: Clinical Physiology, **1999**; 19: 183-187

GID: 233; Last update: 01.12.2007