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Selected Bibliography Journal Articles & Research Papers

BALANCE SYSTEM



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Geriatrics

- CAMPBELL, MH, et al.
THE CORRELATION BETWEEN ISOKINETIC STRENGTH MEASURES AND FUNCTIONAL PERFORMANCE IN AN ELDERLY POPULATION
Biodex #93-293
- CLARK, S, et al.
THE CORRELATION BETWEEN ISOKINETIC STRENGTH MEASURES AND FUNCTIONAL PERFORMANCE IN AN ELDERLY POPULATION
Arch Phys Med Rehabil
Vol 78:1078-1084, October 1997
Biodex #92-269
- DELBAERE, K, et al.
AGE-RELATED CHANGES IN CONCENTRIC AND ECCENTRIC MUSCLE STRENGTH IN THE LOWER AND UPPER EXTREMITY: A CROSS-SECTORIAL STUDY
Isokinetics and Exercise Science 11 (2003)
145-151 – IOS Press
Biodex #93-180
- DELBAERE, K, et al.
AGE-RELATED CHANGES IN CONCENTRIC AND ECCENTRIC MUSCLE STRENGTH IN THE LOWER AND UPPER EXTREMITY: A CROSS-SECTORIAL STUDY
Isokinetics and Exercise Science 11 (2003)
145-151 – IOS Press
Biodex #93-180
- SFORZO, G, et al.
RESILIENCE TO EXERCISE DETRAINING IN HEALTHY OLDER ADULTS
JAGS, 43:209-215, 1995
Biodex #93-239
- SIGNORILE, JF, et al.
HIGH SPEED TRAINING PRODUCES SUPERIOR RESULTS TO LOW SPEED TRAINING IN AN OLDER POPULATION
Biodex #93-294
- SIUDMAK, PG, et al.
CORRELATIONS BETWEEN DYNAMIC BALANCE PERFORMANCE AND ISOKINETIC FUNCTIONS OF KNEE FLEXOR/EXTENSOR MUSCLES IN THE ELDERLY
Biodex #93-295
- (rev. Oct. 2005)
- DELBAERE, K, et al.
AGE-RELATED CHANGES IN CONCENTRIC AND ECCENTRIC MUSCLE STRENGTH IN THE LOWER AND UPPER EXTREMITY: A CROSS-SECTORIAL STUDY
Isokinetics and Exercise Science 11 (2003)
145-151 – IOS Press
Biodex #93-180
- CRESS, ME, et al.
CONTINUOUS-SCALE PHYSICAL FUNCTIONAL PERFORMANCE IN HEALTHY OLDER ADULTS: A VALIDATION STUDY
Arch Phys Med Rehabil, Vol. 77,
December 1996
Biodex #92-201
- CUMMINGS, SR, et al.
A HYPOTHESIS: THE CAUSES OF HIP FRACTURES
J of Gerontology: Medical Sci, Vol.44,
No.4, M107-11, 1989
Biodex #92-202
- ENGSTROM, J, et al.
DISORDERS OF THE AUTONOMIC NERVOUS SYSTEM
Biodex #92-203
- EVANS, JG
FALLS AND FRACTURES COMMENTARY AGE AND AGEING, Vol. 17, (6)361-364, 1988
Biodex #92-204
- FINN, JA, et al.
BIODEX BALANCE SYSTEM PERFORMANCE ASSESSMENT AMONG SUBJECTS OF DISPARATE BALANCING ABILITIES
Abstract
Biodex #92-205
- HARADA, ND, et al.
MOBILITY-RELATED FUNCTION IN OLDER ADULTS: ASSESSMENT WITH A 6-MINUTE WALK TEST
Arch Phys Med Rehabil, Vol.80, 837-841,
July 1999
Biodex #92-206

Fall Risk Assessment & Conditioning References

AMERICAN GERIATRICS SOCIETY, BRITISH GERIATRICS SOCIETY, AND AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS PANEL ON FALLS PREVENTION GUIDELINE FOR THE PREVENTION OF FALLS IN OLDER PERSONS
JAGS 49:664-672, 2001
Biodex #92-231

- RAY, WA
PSYCHOTROPIC DRUGS AND INJURIES AMONG THE ELDERLY: A REVIEW
J Clinical Psychopharmacology, Vol.12
No.6:386-396, Dec. 1992
Biodex #92-207
- SEKIYA, N, et al.
OPTIMAL WALKING IN TERMS OF VARIABILITY IN STEP LENGTH
JOSPT, Vol. 26, (5):266-272, Nov. 1997
Biodex #92-208

SIERI, T and BERETTA, G.
FALL RISK ASSESSMENT IN VERY OLD MALES
AND FEMALES LIVING IN NURSING HOMES
Disability and Rehabilitation: 2004,
Vol. 26, No. 12:718-723
Biodex #93-106

SIMPSON, J, et al.
GUIDELINES FOR MANAGING FALLS AMONG
ELDERLY PEOPLE
Physiotherapy, Vol. 84, (4):173-177,
April 1998
Biodex #92-209

TINETTI, ME, et al.
RISK FACTORS FOR FALLS AMONG ELDERLY
PERSONS LIVING IN THE COMMUNITY
The New England J of Med, Vol.319,
No.26:1701-1707, Dec. 1988
Biodex #92-210

WARE, JE
THE MOS 36-ITEM SHORT-FORM HEALTH
SURVEY (SF-36)
Medical Care, Vol. 30 (6):473-83,
June 1992
Biodex #92-221

WHIPPLE, RH, et al.
THE RELATIONSHIP OF KNEE AND ANKLE
WEAKNESS TO FALLS IN NURSING HOME
RESIDENTS: AN ISOKINETIC STUDY
JAGS, Vol. 35 (1):13-20, Jan. 1987
Biodex #92-211

WOLFSON, L, et al.
GAIT ASSESSMENT IN THE ELDERLY: A GAIT
ABNORMALITY RATING SCALE AND ITS
RELATION TO FALLS
J of Gerontology: Med Sci, Vol. 45
(1):M12-19, 1990
Biodex #92-212

(rev. Dec. 2005)

Osteoarthritis

CARPENTER, MR, et al.
THE RELIABILITY OF ISOKINETIC AND
ISOMETRIC LEG STRENGTH MEASURES
AMONG INDIVIDUALS WITH SYMPTOMS
OF MILD OSTEOARTHRITIS
J Sports Med Phys Fitness;
Vol. 46:1-5, 2006
Biodex #93-110

WOOLLEY, SM, et al.
HIGH FACTORS PREDICT ABILITY IN
OA PATIENTS?
Biomechanics, Pg. 77-84, January 1999
Biodex #93-289

(rev. Jul. 2006)

Stability / Balance

AKBARI, M, et al.
BALANCE PROBLEMS AFTER UNILATERAL
LATERAL ANKLE SPRAINS
J of Rehabilitation Research &
Development (JRRD), Vol. 43,
No. 7: 819-824, Nov/Dec 2006
Biodex #91-159

ARNOLD, BL, et al.
NORMAL STABILITY PATTERNS AND
RELATIONSHIP AS ASSESSED WITH THE
BIODEX BALANCE SYSTEM
J of Athletic Training, Vol. 32 (2):S-25 /
April-June 1997
Biodex #93-268

EXAMINATION OF BALANCE MEASURES
PRODUCED BY THE BIODEX STABILITY
SYSTEM
J of Athletic Training, Vol. 33(4):323-27, Dec. 1998
Biodex #93-287

AYDOG, E, et al.
EVALUATION OF DYNAMIC POSTURAL
BALANCE USING THE BIODEX STABILITY
SYSTEM IN RHEUMATOID ARTHRITIS PATIENTS
Abstract only - Clin Rheumatol, 2005,
Oct 25:1-6
Biodex #92-286

DYNAMIC POSTURAL BALANCE IN ANKYLOSING
SPONDYLITIS PATIENTS
Abstract only – Rheumatology (Oxford),
2005, Nov. 8
Biodex #93-105

BALLARD, T
PRODUCT PROFILE: THE BIODEX BALANCE
SYSTEM
Biodex Medical Systems
Biodex #91-111

BEHAN, E
A COMPARISON OF A DYNAMIC BALANCE
SYSTEM TO A STATIC FORCE PLAST SYSTEM
FOR ORTHOPEDIC AND MUSCULOSKELETAL
REHABILITATION
Biodex Medical Systems
Biodex #91-113

BLACKBURN, JT, et al.
BALANCE AND JOINT STABILITY:
THE RELATIVE CONTRIBUTIONS OF
PROPRIOCEPTION AND MUSCULAR STRENGTH
J of Athletic Training, Vol. 34(2):S-30 /
April-June 1999
Biodex #91-104

- BLACKBURN, TA, et al.
REHABILITATION AFTER LIGAMENOUS AND LABRAL SURGERY OF THE SHOULDER: GUIDING CONCEPTS
J of Athletic Training 2000;35(3):373-381
Biodex #93-111
- BLACKBURN, TA, et al.
SINGLE LEG STANCE: DEVELOPMENT OF RELIABLE TESTING PROCEDURE
Berkshire Institute of Orthopedic & Sports Physical Therapy, Wyomissing, PA
Biodex #93-207
- CACHUPE, WJC, et al.
RELIABILITY OF BIODEX BALANCE SYSTEM MEASURES
Human Performance Dept. / San Jose State University / June 2000
Biodex #91-198
- CAGGIANO, NA, et al.
THE RELATIONSHIP BETWEEN ANKLE KINESTHESIA AND PEAK TORQUE WITH SINGLE LEG MULTIAXIAL PLATFORM STABILITY
J of Athletic Training, Vol. 34(2):S-31 / April-June 1999
Biodex #91-106
- CAMPBELL, MH, et al.
THE CORRELATION BETWEEN ISOKINETIC STRENGTH MEASURES AND FUNCTIONAL PERFORMANCE IN AN ELDERLY POPULATION
Biodex #93-293
- CAVANAUGH, JT, et al.
BALANCE AND POSTOPERATIVE LOWER EXTREMITY JOINT RECONSTRUCTION
Orthopaedic Phys Therapy Clinics of No America; Vol.11:1, 75-99 - March 2002
Biodex #92-244
- CLARK, S, et al.
GENERALIZABILITY OF THE LIMITS OF STABILITY TEST IN THE EVALUATION OF DYNAMIC BALANCE AMONG OLDER ADULTS
Arch Phys Med Rehabil
Vol 78:1078-1084, October 1997
Biodex #92-269
- DiCOSTANZA, K, et al.
EFFECT OF ADHESIVE MEDIAL LONGITUDINAL ARCH SUPPORT ON POSTURAL SWAY
J of Athletic Training / Vol. 36(2) (suppl)
S66, April-June 2001
Biodex #92-227
- DOVER, G, et al.
RELIABILITY OF INVERSION AND EVERSION PEAK TORQUE MEASUREMENTS FROM THE BIODEX SYSTEM 3 ISOKINETIC DYNAMOMETER
J of Athletic Training / Vol. 35 (2) (suppl) / S-91 / April-June 2000
Biodex #91-185
- FERRIS, CM, et al.
A COMPARISON OF STRENGTH, PROPRIOCEPTION, LAXITY, FLEXIBILITY, AND BALANCE BETWEEN BASKETBALL AND NON-BASKETBALL COLLEGIATE FEMALE ATHLETES
J of Athletic Training / Vol. 35 No. 2 (suppl) / S38 / April-June 2000
Biodex #91-189
- FINN, JA, et al.
STABILITY PERFORMANCE ASSESSMENT AMONG SUBJECTS OF DISPARATE BALANCING ABILITIES
Southern Connecticut State University, 501 Crescent St., New Haven, CT 06515,
Phone: 203-392-6036
Biodex #93-286
- FLYNN, WL, et al.
CHANGES IN DYNAMIC POSTURAL STABILITY FOLLOWING CRYOTHERAPY
J of Athletic Training, Vol. 32(2):S-6 / April-June 1997
Biodex #91-110
- FREIDHOFF, G, et al.
PILOT ASSESSMENT OF THE BIODEX STABILITY SYSTEM WITH NORMALS: TEST/RETEST AND DAY TO DAY RELIABILITY
University of Kentucky, Div. of P.T., (Med. Center Annex I, Lexington, KY)
Biodex #93-206
- HINMAN, MR
FACTORS AFFECTING RELIABILITY OF THE BIODEX BALANCE SYSTEM: A SUMMARY OF FOUR STUDIES
J of Sport Rehab, Vol. 9 (3):240-52, August 2000
Biodex #91-194
- HORNLIK, ML, et al.
RELIABILITY OF LIMITS OF STABILITY TESTING: A COMPARISON OF TWO DYNAMIC POSTURAL STABILITY EVALUATION DEVICES
J of Athletic Training, Vol. 36(2) (suppl) S78, April-June 2001
Biodex #92-229
- HORODYSKI, MB, et al.
MEASUREMENTS OF DYNAMIC POSTURAL STABILITY, VISUAL SCANNING, AND MENTAL FLEXIBILITY IN COLLEGIATE FOOTBALL PLAYERS
J of Athletic Training, Vol. 34(2):S85 / April-June 1999
Biodex #91-108
- JORDEN, RA, et al.
THE INFLUENCE OF ANKLE ORTHOSES AND EXERCISE ON POSTURAL STABILITY
J of Athletic Training, Vol. 36(2) (suppl): S-78, April-June 2001
Biodex #92-228

- LAUFER, Y, et al.
EFFECT OF ATTENTION FOCUS ON ACQUISITION AND RETENTION OF POSTURAL CONTROL FOLLOWING ANKLE SPRAIN
Arch Phys Med Rehab, Vol. 88, Jan 2007:105-108
Biodex #92-285
- LEONARD, K, et al.
CHANGES IN DYNAMIC POSTURAL STABILITY FOLLOWING CRYOTHERAPY TO THE ANKLE AND KNEE
J of Athletic Training, Vol. 34(2):S-68 / April-June 1999
Biodex #91-107
- LEPHART, S, et al.
LEARNING EFFECTS AND RELIABILITY OF THE BIODEX STABILITY SYSTEM
Sports Medicine & Neuromuscular Laboratory, Univ. of Pittsburgh / Pittsburgh, PA
Biodex #93-208
- LINDEMANN, U, et al.
IMPROVING BALANCE BY IMPROVING MOTOR SKILLS
Z Gerontol Geriat 37:20-26 (2004)
Biodex #93-205
- MAGILL, J, et al.
CHANGES IN DYNAMIC POSTURAL STABILITY WITH THE USE OF NEOPRENE SLEEVES
J of Athletic Training, Vol. 34(2), S-30 / April-June 1999
Biodex #91-103
- MALLEY, C, et al.
THE EFFECTS OF THREE DIFFERENT ANKLE TRAINING PROGRAMS ON FUNCTIONAL STABILITY AND SINGLE-LIMB STANCE
J of Athletic Training, Vol. 34(2), S-30 / April-June 1999
Biodex #91-105
- MATTACOLA, CG, et al.
STRENGTH, FUNCTIONAL OUTCOME, AND POSTURAL STABILITY CRUCIATE LIGAMENT RECONSTRUCTION
J of Athletic Training, Vol. 37(3): 262-268 / July-Sept 2002
Biodex #92-241
- MYER, GD, et al.
REHABILITATION AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION: CRITERIA-BASED PROGRESSION THROUGH THE RETURN-TO-SPORT PHASE
J of Orthop & Sports Phy Ther, 36:6:385-402, June 2006
Biodex #93-117
- NELSON, AJ, et al.
USING THE BIODEX UNWEIGHING SYSTEM, BALANCE SYSTEM AND GAIT TRAINER IN AN INTEGRATED REHABILITATION PROGRAM
Abstract, May 2001
Biodex #92-217
- PATERNO, MV, et al.
THE RETURN OF NEUROMUSCULAR COORDINATION AFTER ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION
Biodex Medical Systems
Biodex #91-112
- PATERNO, MV, et al.
NEUROMUSCULAR TRAINING IMPROVES SINGLE-LIMB STABILITY IN YOUNG FEMALE ATHLETES
JOSPT, Vol. 34 (6):305-316, June 2004
Biodex #92-245
- PINTO, KK, et al.
THE EFFECTS OF ANKLE TAPING AND BALANCE ACTIVITIES ON BIODEX STABILITY MEASUREMENTS
J of Athletic Training, Vol. 34(2), S-30 / April-June 1999
Biodex #91-102
- RIEMANN, BL, et al.
COMPARISON OF THE ANKLE, KNEE, HIP, AND TRUNK CORRECTIVE ACTION SHOWN DURING SINGLE-LEG STANCE ON FIRM, FOAM, AND MULTIAXIAL SURFACES
Arch Phys Med Rehabil, Vol. 84: 90-95, January 2003
92-237
- ROZZI, SL, et al.
KNEE JOINT LAXITY AND NEUROMUSCULAR CHARACTERISTICS OF MALE AND FEMALE SOCCER AND BASKETBALL PLAYERS
American J Sports Med, Vol. 27(3): 312-319 / May-June 1999
Biodex #91-101
- SCHMITZ, RJ, et al.
INTERTESTER AND INTRATESTER RELIABILITY OF A DYNAMIC BALANCE PROTOCOL USING THE BIODEX STABILITY SYSTEM
J of Sports Rehab 7:95-101, 1998
Biodex #93-271
- SIERI, T and BERETTA, G.
FALL RISK ASSESSMENT IN VERY OLD MALES AND FEMALES LIVING IN NURSING HOMES
Disability and Rehabilitation: 2004, Vol. 26, No. 12:718-723
Biodex #93-106

SIUDMAK, PG, et al.
CORRELATIONS BETWEEN DYNAMIC BALANCE
PERFORMANCE AND ISOKINETIC FUNCTIONS
OF KNEE FLEXOR/EXTENSOR MUSCLES IN THE
ELDERLY
Biodex #93-295

TESTERMAN, C, et al.
EVALUATION OF ANKLE INSTABILITY USING
THE BIODEX STABILITY SYSTEM
Foot Ankle Int 1999 May, 20(5):317-21
(ISSN: 1071-1007)
Biodex #91-116

UUSI-RASI, K, et al.
ASSOCIATIONS OF CALCIUM INTAKE AND
PHYSICAL ACTIVITY WITH BONE DENSITY
AND SIZE IN PREMENOPAUSAL AND
POSTMENOPAUSAL WOMEN: A
PERIPHERAL QUANTITATIVE COMPUTED
TOMOGRAPHY STUDY
J of Bone and Mineral Research, Vol 17,
No. 3, 2002: 544-552
Biodex #92-281

WILKERSON, GB
DYNAMIC JOINT STABILITY: MECHANICAL AND
NEUROMUSCULAR INTER-RELATIONSHIPS
Biodex Medical Systems
Biodex #91-109

WINTERS, KM, et al.
DETRAINING REVERSES POSITIVE
EFFECTS OF EXERCISE ON THE
MUSCULOSKELETAL SYSTEM
IN PREMENOPAUSAL WOMEN
J of Bone and Mineral Research, Vol 15,
No. 12, 2000: 2495-2503
Biodex #92-280

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