



2: Significant Increased 1: Slight Increased 0: Normal -1: Slight Decreased -2: Significantly Decreased		STANCE PHASE					SWING PHASE		
		Initial Contact	Loading Response	Midstance	Terminal Stance	Preswing	Initial Swing	Midswing	Terminal Swing
PELVIS	Internal/ External Rotation	← Neutral →		← 5° Int Rot →	← Neutral →		← 5° Ext Rot →		← Neutral →
	Pelvic Tilt	← 10° Ant →					← 10° Ant →		
	Pelvic Obliquity	← Neutral →		← 5° Ele →	← Neutral →		← 5° Dep →	← Neutral →	
HIP	Hip Flex.							← 35° Flex →	
	Hip Ext.				← 10° Ext →				
	Hip Abd/Add	← Neutral →	← 5° Add →			← Neutral →	← 5° Abd →		← Neutral →
KNEE	Knee Flex.	← 5° Flex →	← 15° Flex →		← 3° Flex →		← 65° Flex →		← 5° Flex →
FOOT	Plantar Flexion					← 10° Flex →			
	Dorsi Flexion	← Neutral →		← 10° Flex →	← 15° Flex →			← Neutral →	
	Foot Ankle			← 15° →					
TEMPORAL DATA	Stance Phase Lenght	RIGHT		LEFT		62%			
	Step Width	RIGHT		LEFT		20 cm			
	Double Step Lenght					120-140 cm			
	Cadence					120-136 step/min			
	Velocity					1.09-1.41 mt/min			

Fig. 1. OGA Form. Int. Rot: Internal rotation; Ext Rot: External rotation; Ant: Anterior pelvic tilt; Ele: Elevation; Dep: Depression; Flex: Flexion; Ext:

# Observational Gait Analysis

**Douglas P. Murphy, Joseph B.  
Webster, William Lovegreen**



## **Observational Gait Analysis:**

Observational Gait Analysis Janet Adams, Kay Cerny, 2024-06-01 *Observational Gait Analysis A Visual Guide* is a pedagogical manual and video library that provides a thorough review of key characteristics of normal gait that are important for observational clinical gait analysis. This visual guide by Drs Jan Adams and Kay Cerny has unique features to further the understanding of examination and evaluation of the subject's gait such as Normal and pathological gait are described using figures and graphs along with gait videos and 3D graphs to show the kinematics and kinetics described. Functional tools used as outcome measures to evaluate gait performance in the community environment including Dynamic Gait Test Six Minute Walk Test Ten Meter Walk Test to name a few. In addition to the unique features the pathological gait section presents descriptions of gait deviations included in a new clinical Observational Gait Analysis OGA tool along with probable causes for each of the deviations. Case studies are presented using this new tool for examining and evaluating the subject's gait. Bonus Students will be able to watch antero posterior and lateral videos of individuals with gait deviations complete the OGA tool to document their gait examination and evaluate their examination results. They will then validate their observational skills by comparing their results to the text's case study OGA results and the skeletal model and motion and moment graphs completed by 3D instrumented analysis of the same individual. The student will then compare their evaluation of causes of deviations to that included in the case study. Included with the text are online supplemental materials for faculty use in the classroom. *Observational Gait Analysis A Visual Guide* will be the go to resource for clinical tools to analyze gait for physical therapy and prosthetic and orthotic students and clinicians as well as other professionals interested in the clinical analysis of persons with gait disability.

*Observational Gait Analysis* Rancho Los Amigos National Rehabilitation Center, 2001-01-01 *Observational Gait Analysis* is written to assist physical therapists and physicians to effectively evaluate pathological gait. It presents a method of gait analysis which can easily be applied in the clinic. The first edition *Normal and Pathological Gait Syllabus* was published in 1981. In 1989 the *Observational Gait Analysis Handbook* was published. The third edition contains changes in the normal joint ranges of motion as a result of more sophisticated and accurate equipment. Muscle activity has been revised to reflect data from a larger sample size. The phases and functional tasks are defined and a problem solving approach to observational gait analysis is presented.

Observational Gait Analysis, 2001 Observational Gait Analysis Handbook, 1989 Observational Gait Analysis Rebecca Rees, 1995 Observational Gait Analysis by Expert and Novice Physical Therapists Ellen L. McGough, 2003 *The Development and Assessment of a Teaching Approach to Observational Gait Analysis* Mary Katie Gillis, 1977

**Development and Reliability of an Observational Gait Analysis Tool for Children with Down Syndrome** Erin Wagoner, Teresa Wingler, Tara Evans, Jamie Huffman, Julie Beuligmann, 2008 *Reliability of the Rancho Los Amigos Observational Gait Analysis Form* Carol Daukas, Kimberly Gould, 1991\* Abstract Observational gait analysis is a skill that is frequently used in physical therapy but it

is a skill that is difficult to objectify The Ranchos Los Amigos Observational Gait Analysis Form RLAOGAF attempts to do this The purposes of this study were to examine 1 The interrater reliability of the RLAOGAF between acute care outpatient and rehab therapists when evaluating a videotaped patient and 2 the validity of the RLAOGAF The fifty therapists who participated had less than five years of clinical practice and received a one hour instructional inservice on the RLAOGAF A two way chi square detected interrater reliability between the two groups A one way chi square was then done which detected strong reliability for the RLAOGAF with therapists overall in agreement that deviations did not exist Validity was determined using a one way chi square comparing the therapists answers to the Newington Gait Lab Analysis Validity was found to be poor for the three subphases tested It was determined that the therapists were reliable when using this form but the deviations tested were not valid Gait analysis is an integral part of the physical therapy evaluation Many therapists utilize gait analysis as an aid in diagnosing the patient s problem s to assign an assistive walking device and to develop a plan of treatment Objective measures of analyzing gait are necessary for documenting progress The problem clinicians are faced with is that instrumented measures of objectively quantifying gait are expensive and time consuming and therefore are not practical in a clinical setting As a result clinics tend to rely on observational methods of analyzing gait This is quick and inexpensive but requires the physical therapist to simultaneously observe all the joints involved in the gait cycle In order to do this the therapist must have an excellent knowledge of exactly what is suppose to occur at each joint with regard for joint angles and muscle involvement throughout the gait cycle There are many phases to the gait cycle and many joints are involved so it is often difficult for a therapist to note everything that occurs in a single gait cycle In addition if the therapist has a patient walk a runway several times so that every component of the gait cycle can be observed carefully the patient may fatigue therefore the therapist will not have an accurate and clear picture of what is truly occurring

**Use of the Isolated Elements Effect to Teach Observational Gait Analysis** Kelly J. Sass, 2016 In the isolated elements group the learners received the content in several separate videos that isolated each of the sub phases of gait prior to viewing a summary video that included all of the interacting gait cycle components Learners in the interacting elements group received the content in one video that included the full gait cycle followed by the same summary video Students in the isolated elements groups reported lower mental effort ratings immediately after viewing the isolated elements videos than did the interacting group after viewing the single video tutorial However there was no differences in either mental effort or task difficulty ratings at the other time points during the lesson or during the assessments Performance scores and confidence ratings did not differ between the two groups Within group analyses found that there were significant changes over time in both groups for mental effort performance scores and confidence ratings A statistically significant change was noted over time for task difficulty in the interacting elements group The reduction in mental effort ratings immediately following the tutorial content for the isolated elements group lends support the theory that isolating the individual elements prior to

teaching the complex interactions can reduce cognitive load for learners However this reduction in cognitive load did not translate into improved test scores or confidence compared to the interacting elements group Future research is needed to identify instructional methods that can further reduce the cognitive load and increase the learning outcomes of students learning observational gait analysis In addition alternative objective methods of assessing cognitive load should be explored

**Merriman's Assessment of the Lower Limb** Ben Yates,Linda M. Merriman,2009-01-01 ASSESSMENT OF THE LOWER LIMB is the benchmark textbook of lower limb examination and assessment The third edition preserves the lucidity logical approach and comprehensive coverage of its predecessors but adds many new exciting features including an all new colour design colour line drawings new contributors thorough updating of all chapters many of which have been completely rewritten and an entirely new chapter on functional assessment The DVD provides extensive videos of assessment techniques and illustrations practitioners with patients and models show how to assess all parts of the lower limb and evaluate various conditions DVD incorporating videos and illustrations invaluable footage of assessment techniquesdownloadable full colour figures and extra radiological photographsMany new contributors bringing fresh expertise and insights for today s studentAll chapters thoroughly rewritten and updatedNew chapter on functional assessmentAll new colour designCase histories help put learning in context *Observational Gait Analysis in Hereditary Spastic Paraplegia* Suresh Ramaswamy,2014

**Reliability of the Rancho Los Amigos Observational Gait Analysis Form** Belinda S. De Felice,Jaime N. Maldonado,Maria S. Anaya Llambias,1999 **Mercer's Textbook of Orthopaedics and Trauma Tenth edition** Suresh Sivananthan,Eugene Sherry,Patrick Warnke,Mark Miller,2012-02-24 Highly Commended BMA Medical Book Awards 2013Orthopaedic problems account for over one third of all medical and surgical problems Mercer s Textbook of Orthopaedics and Trauma provides all the information required by the senior trainee or qualified specialist to improve understanding and management of any given condition or disease in this area Si **Care of the Combat Amputee** United States. Department of the Army. Office of the Surgeon General,2009 This resource addresses all aspects of combat amputee care ranging from surgical techniques to long term care polytrauma and comorbidities such as traumatic brain injury and burns pain management psychological issues physical and occupational therapy VA benefits prosthetics and adaptive technologies sports and recreational opportunities and return to duty and vocational rehabilitation People Walking Jan Bruckner,1998 Section 1 shows seven people with gait deviations and looks at the clinical problems presented Section 2 illustrates the changes that occur in the gait pattern over the life span *Orthopedic Care of Patients with Cerebral Palsy* Philip D. Nowicki,2020-06-22 Many of the existing books focusing on the orthopedic management of patients with cerebral palsy encompass only care for the young patient but this practical text reviews and delineates orthopedic care for patients with cerebral palsy throughout the lifespan Readers will find a discussion of both non operative and operative orthopedic management across all ages and functional levels The text presents a general overview of cerebral palsy evaluation of

patients with cerebral palsy and procedures commonly used to treat various orthopedic conditions in patients with cerebral palsy Spasticity management and gait evaluation are likewise highlighted and surgical chapters cover techniques for the hip knee foot and ankle and spine It also incorporates chapters focused on issues related to the rehabilitation of patients with cerebral palsy including bracing orthotics and other durable medical equipment physical and occupational therapy pain management and adaptive activities and sports which aim to improve the overall quality of life for patients through the lifespan Finally there is a chapter focused on the care transition from childhood to adulthood an area of importance often neglected in current texts covering patients with cerebral palsy Whether in the operating room multi specialty clinic or private office Orthopedic Care of Patients with Cerebral Palsy will be a go to resource for orthopedists pediatricians and all medical professionals caring for this population

**Care of the Combat Amputee** Paul F. Pasquina, Rory A. Cooper, 2009 This resource addresses all aspects of combat amputee care ranging from surgical techniques to long term care polytrauma and comorbidities such as traumatic brain injury and burns pain management psychological issues physical and occupational therapy VA benefits prosthetics and adaptive technologies sports and recreational opportunities and return to duty and vocational rehabilitation

**Forensic Gait Analysis** Ivan Birch, Michael Nirenberg, Wesley Vernon, Maria Birch, 2020-07-07 Gait analysis is the systematic study of human walking using the eye and brain of experienced observers augmented by instrumentation for measuring body movements body mechanics and the activity of the muscles Since Aristotle's work on gait analysis more than 2000 years ago it has become an established clinical science used extensively in the healthcare and rehabilitation fields for diagnosis and treatment Forensic Gait Analysis details the more recent and rapidly developing use of gait analysis in the forensic sciences The book considers the use of observational gait analysis based on video recordings to assist in the process of identification or exclusion With the increase in use of CCTV and surveillance systems over the last 20 to 30 years there has been a steady and rapid increase in the use of gait as evidence Currently gait analysis is widely used in the UK in criminal investigations with increasing awareness of its potential use in the US Europe and globally The book details the history of the science current practices and of the emergent application to establish best practice standards that conform to those of other forensic science disciplines Engagement with the Forensic Science Regulator and the Chartered Society of Forensic Sciences in the UK and the International Association for Identification has helped to ensure and enhance the quality assurance of forensic gait analysis However there remains a fundamental lack of standardized training and methodology for use in evidentiary and investigative casework This book fills that void serving as one of the first to describe the current state of practice capabilities and limitations and to outline methods standards of practice and expectations of the gait analyst as a forensic practitioner Forensic Gait Analysis reflects current research and forensic practice and will serve as a state of the art guide to the use of gait analysis in the forensic context for both education and training purposes It will be a welcome addition to the libraries of professionals in the areas of podiatry gait analysis forensic video analysis law

enforcement and legal practice      **Atlas of Orthoses and Assistive Devices - E-BOOK** Douglas P. Murphy, Joseph B. Webster, William Lovegreen, 2025-06-02 Offering a valuable balance of information for everyone on the rehabilitation team Atlas of Orthoses and Assistive Devices Sixth Edition brings you up to date with rapid changes in every area of this fast moving field Significant new content a new editor with specialization in prosthetics and orthotics and new contributing authors deliver expert guidance on the decision making process needed for the prescription and application of technologically complex devices From traditional fabrication and fitting principles to advanced information in the material sciences digital printing technology neural stimulation systems microprocessor technologies and robotics this new edition remains practical readable and evidence based an ideal resource to assist medical and rehabilitation professionals achieve optimal outcomes for patients with a wide variety of conditions Includes coverage of key advances in robotic systems 3D printing technology and virtual reality devices as well as wearable inertial sensors in people with mobility impairments plus a new chapter on digital technology in orthotics and prosthetics Covers cutting edge topics ranging from gait assessment strategies to novel therapies such as use of a virtual environment during rehabilitation Features a vibrant full color design with numerous figures tables and color photographs throughout Shares the knowledge and experience of new editor William Lovegreen who brings specialized expertise in prosthetics and orthotics as well as new contributing authors who provide fresh perspectives and greater international representation Discusses brain computer interface BCI systems relating to assistive technology AT systems and orthotics Includes economic evaluations for orthotic and prosthetic devices Any additional digital ancillary content may publish up to 6 weeks following the publication date One new editor New chapters on technological advances interfacing AI and robotic systems

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