

## Clinical Focus

# “The Caterpillar”: A Novel Reading Passage for Assessment of Motor Speech Disorders

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**Purpose:** A review of the salient characteristics of motor speech disorders and common assessment protocols revealed the need for a novel reading passage tailored specifically to differentiate between and among the dysarthrias (DYSs) and apraxia of speech (AOS).

**Method:** “The Caterpillar” passage was designed to provide a contemporary, easily read, contextual speech sample with specific tasks (e.g., prosodic contrasts, words of increasing length and complexity) targeted to inform the assessment of motor speech disorders. Twenty-two adults, 15 with DYS or AOS and 7 healthy controls (HC), were recorded reading

“The Caterpillar” passage to demonstrate its utility in examining motor speech performance.

**Conclusion:** Analysis of performance across a subset of segmental and prosodic variables illustrated that “The Caterpillar” passage showed promise for extracting individual profiles of impairment that could augment current assessment protocols and inform treatment planning in motor speech disorders.

**Key Words:** motor speech evaluation, reading passage, contextual speech

The motor speech evaluation is critical to identifying the presence of, differentiating between, and rating the severity of impairment. Observations based on this assessment provide guidance for which aspects of speech production may be most amenable to treatment and effective for enhancing communication. Speech production is examined at various levels of complexity, from nonsense syllables to words to sentences to connected speech, using a reading from a standard passage and elicited through picture description or conversation. Specific tasks used to examine speech motor programming and execution include maximum phonation time, diadochokinetic rates (alternating/sequential motion rates), isolated sound and syllable production, words in simple and complex syllable structures, words of increasing length, automatic/frequent words or phrases (e.g., days of the week, counting), and contextual speech (Duffy, 2005; Freed, 2012).

Of the speech evaluation tasks, contextual speech is the most useful for observing the integrated function of all

components of speech (see, e.g., Bunton, Kent, Duffy, Rosenbek, & Kent, 2007; Duffy, 2005). The reading passage provides a sample that can be compared to tokens gathered through syllable and word repetition tasks. Ideally, the passage should afford a controlled and repeatable speaking task to tax the speech production system and aid in differential diagnosis. For the researcher, knowing the context within which speech sounds are produced and the nature of the errors made, as well as examining the suprasegmental structure of utterances, may provide insight into deficits at varying levels of speech production.

A variety of reading passages have been reported in the literature, yet “My Grandfather” (Van Riper, 1963) is anecdotally the most well known and used. This passage, however, is not particularly well suited for examining speech motor skills that differentiate among motor speech disorders. In fact, Van Riper described the passage as “useful for a quick survey of the student’s (client’s) ability to produce correct speech sounds” (Van Riper, 1963, p. 484). The historical roots of using this passage in motor speech evaluation perhaps stem from Darley, Aronson, and Brown’s (1969a, 1969b) seminal work on the perceptual characteristics of dysarthria, in which they used a variant of the passage called “The Grandfather Passage” (see Reilly & Fisher, 2012, for a description of the genesis of the passage). Given that the purpose of a reading passage is to allow researchers to observe the integrated performance of the speech production system, best clinical practice would support embedding some of the syllable and word repetition tasks of the motor speech evaluation within the reading passage, to observe differences

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Editor: Carol Scheffner Hammer

Associate Editor: Julie Liss

Received October 28, 2011

Revision received March 13, 2012

Accepted June 4, 2012

DOI: 10.1044/1058-0360(2012)11-0134

# Motor Speech Disorders The Caterpillar Passage

**Robert Hunter**



## **Motor Speech Disorders The Caterpillar Passage:**

**Motor Speech Disorders** Nick Miller, Anja Lowit, 2014-07-21 Motor speech disorders are a common accompaniment of a whole range of neurological conditions from stroke brain injury and Parkinson's disease through to many rarer conditions. This book aims to aid understanding of the nature of motor speech disorders from a cross language perspective in contrast to the largely English centric nature of research and practice recommendations to date. The book looks not just at how these motor speech disorders are assessed and treated in other countries but also examines how underlying speech impairments differ according to the language someone speaks. The book studies the underlying neurological, neurophysiological and neurophonetic characteristics of motor speech disorders in different language contexts and discusses the implications these have for clinical rehabilitation. This significantly adds to debates around the theoretical understanding and clinical management of motor speech disorders.

**Motor Speech Disorders E-Book** Joseph R. Duffy, 2019-10-13 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Communication Sciences Disorders. Ensure you're up to speed with the most recent findings in motor speech disorders. One of the most trusted sources on this topic, *Motor Speech Disorders* integrates the latest neurological research with the realities of clinical practice. The fourth edition is divided into three sections which focus on substrates of motor speech and its disorders, the disorders and their diagnoses, and finally managing various treatment types. Additionally, new research on the neurologic organization of motor control, causes of motor speech disorders, and advances in the medical and behavioral management of specific disorders is incorporated throughout. Supported by a robust Evolve site, this outstanding evidence-based resource provides everything you need to become a skilled clinical practitioner. UPDATED: Over 400 literature references emphasize clinically important information for each major part of the textbook. UPDATED: Illustrations throughout text enhance your understanding of key concepts. UPDATED: Case studies in Disorders chapters help clarify dense and difficult content and help hone your critical thinking skills. Cutting edge research with an emphasis on evidence-based practice ensures that this book contains the most comprehensive and up-to-date look at the state of motor speech disorders. Logical three-part organization: first covers the neurologic underpinnings of speech, then the various disorders resulting from problems in the nervous system, and then the basic principles and disorder-specific management strategies. Summary tables and boxes offer easy access to important information such as causes and characteristics to aid in differential diagnosis. Chapter outline and summary sections highlight key points to help you focus on the most significant information. NEW: 24 new audio and video clips demonstrating various disorders have been added to the accompanying Evolve website, totaling over 150 audio and video clips in the interactive PowerPoint presentations. NEW: Clinical insights and key information summaries call out need-to-know information throughout text.

*The Handbook of Language and Speech Disorders* Jack S. Damico, Nicole Müller, Martin J. Ball, 2021-02-26 An authoritative overview of language and speech disorders featuring new and updated chapters written by leading specialists from across the field. The

Handbook of Speech and Language Disorders Second Edition provides timely and authoritative coverage of current issues foundational principles and new research directions within the study of communication disorders Building upon the reputation of the landmark first edition this volume offers an exceptionally broad and in depth survey of the field presenting original chapters by internationally recognized specialists that examine an array of language speech and cognitive disorders and discuss the most crucial aspects of this evolving discipline while providing practical information on analytical methods and assessment Now in its second edition the Handbook features extensively revised and refocused content throughout reflecting the latest advances in the field Original and updated chapters explore diverse topics including literacy and literacy impairments patterns of normal and disordered language development hearing impairment and cochlear implants language acquisition and language delay dementia dysarthria ADHD autism spectrum disorder and many others This acclaimed single volume reference resource Provides 26 original chapters which describe the latest in new research and which indicate future research directions Covers new developments in research since the original publication of the first edition Features in depth coverage of the major disorders of language and speech including new insights on perception hearing impairment literacy and genetic syndromes Includes a series of foundational chapters covering a variety of important general principles including labelling diversity intelligibility assessment and intervention The Handbook of Speech and Language Disorders Second Edition is essential reading for researchers scholars and students in speech and language pathology speech language and hearing sciences and clinical linguistics as well as active practitioners and clinicians

**Here's How to Do Accent Modification** Robert McKinney, 2019-03-15 Here's How to Do Accent Modification A Manual for Speech Language Pathologists is designed for speech language pathologists SLPs working with clients on accent modification in American English A growing number of non native speakers are interested in improving their communication skills and SLPs need preparation to work with this clientele The text provides copious advice and many diverse techniques for teaching accent modification from the level of basic sounds to the level of discourse The text emphasizes realistic goal setting so that clients focus on becoming effective communicators as opposed to sounding exactly like native speakers The objective is a balance between clear and natural speech Many SLPs favor intelligibility over naturalness because of their backgrounds working with speech delayed children but with non native speakers this often leads to unnatural speech and listeners focus on how something is said as opposed to what is said Here's How to Do Accent Modification is uniquely geared toward the skills and backgrounds of SLPs working with clients in a one on one setting but is also an excellent introductory text for any English as a Second Language ESL teacher Robert McKinney brings this unique perspective as a speech language pathologist with degrees in both Communication Disorders and Teaching English as a Second Language Also included with the text are numerous practical activities and worksheets for working with clients The ebook includes audio files and video clips to demonstrate working with non native speakers

Speech and Voice Science, Fourth Edition Alison Behrman, 2021-06-25

Speech and Voice Science Fourth Edition is the only textbook to provide comprehensive and detailed information on both voice source and vocal tract contributions to speech production. In addition, it is the only textbook to address dialectical and nonnative language differences in vowel and consonant production, bias in perception of speaker identity and prosody, suprasegmental features in detail. With the new edition, clinical application is integrated throughout the text. Due to its highly readable writing style, being user friendly for all levels of students, instructors report using this book for a wide variety of courses, including undergraduate and graduate courses in acoustic phonetics, speech science, instrumentation, and voice disorders. Heavily revised and updated, this fourth edition offers multiple new resources for instructors and students to enhance classroom learning and active student participation. At the same time, this text provides flexibility to allow instructors to construct a classroom learning experience that best suits their course objectives. Speech and Voice Science now has an accompanying workbook for students by Alison Behrman and Donald Finan. New to the Fourth Edition: Sixteen new illustrations and nineteen revised illustrations, many now in color. New coverage of topics related to diversity, including Dialectical and nonnative language differences in vowel and consonant production and what makes all of us have an accent. Chapter 7: Vowels and Chapter 8: Consonants. How suprasegmental features are shaped by dialect and accent. Chapter 9: Prosody. Perception of speaker identity, including race, ethnicity, gender, and accent. Chapter 11: Speech Perception. Increased focus on clinical application throughout each chapter, including three new sections. Updated Chapter 4: Breathing includes enhanced discussion of speech breathing and new accompanying illustrations. Updated Chapter 10: Theories of Speech Production now includes the DIVA Model, motor learning theory, and clinical applications. Updated Chapter 11: Speech Perception now includes revised Motor Learning theory, Mirror Neurons, and clinical applications. Expanded guide for students on best practices for studying in Chapter 1: Introduction. Key Features: A two-color interior to provide increased readability. Heavily illustrated, including color figures to enhance information provided in the text. Forty-nine spectrogram figures provide increased clarity of key acoustic features of vowels and consonants. Fourteen clinical cases throughout the book to help students apply speech science principles to clinical practice. Disclaimer: Please note that ancillary content such as documents, audio, and video, etc., may not be included as published in the original print version of this book.

Neurologic and Neurodegenerative Diseases of the Larynx Philip A. Weissbrod, David O. Francis, 2020-03-03. This comprehensive text summarizes what is known about the myriad of different neurological conditions that cause dysfunction of communication, swallowing, and breathing as it relates to the upper aerodigestive tract. It serves to provide clinicians and scientists at all levels of experience a practical and thorough review of these diseases, their management, and frontiers in science. Chapters are written by experts in these conditions from a broad spectrum of medical specialties in order to create a book that is inclusive of diagnostic and therapeutic considerations that clinicians should think about when caring for patients with these conditions. Neurologic and Neurodegenerative Diseases of the Larynx will be an instrumental resource in guiding clinicians to

better recognize the subtle and not so subtle voice swallowing and airway manifestations of these diseases and improve management of patient symptoms and concerns in order to maximize both quality of life and longevity It will aide otolaryngologists laryngologists neurologists speech language pathologists and other allied health care professionals in developing a more efficient evidence based patient focused and multi specialty approach to managing these complex and challenging patients **Oral-Facial Evaluation for Speech-Language Pathologists** Barbara Ann

Johnson-Root,2015-06-09 Oral Facial Evaluation for Speech Language Pathologists guides speech language pathologists and students of speech language pathology through the process of strategically inspecting the oral facial region for structural and functional integrity This manual applies principles of evidence based practice throughout and includes a cogent review of relevant anatomy and physiology instructions for both routine and discretionary inspection procedures detailed clinical implications for a large number of structural and functional patterns strategies for organizing and writing appropriate report sections as well as implications that potentially impact plan of care In addition to explicit guidelines that prepare examiners to purposefully and competently perform oral facial inspections from a generalist perspective Oral Facial Evaluation for Speech Language Pathologists offers detailed adaptations that facilitate evidence gathering for selected special needs populations These include children in birth to five age groups individuals with social and cognitive challenges persons with sensory limitations and older adults A stand alone comprehensive resource this manual lends itself to both professional practice and clinical teaching while promoting a rigorous evidence based model for oral facial inspection practices within the profession of speech language pathology Furthermore this manual is useful for improving efficiency accuracy and consistency of practice across the discipline from novice clinician to seasoned practitioner Key features Narrated videos that demonstrate adult and child oral facial inspections that correspond to the manual procedures Sixty eight black and white illustrations Thorough glossary of terms Foreword written by Dr Raymond D Kent Diseases of the eye and disorders of speech in childhood Oscar Eversbusch,1914 **Diseases of the Eye in Infancy and Childhood** Oscar Eversbusch,1914

**The Diseases of Children** Meinhard von Pfaundler,Arthur Schlossmann,Linnæus Edford La Fétra,1914

*Developmental Motor Speech Disorders* Michael A. Crary,1993 CONTENTS Foreword by Leonard L LaPointe Ph D Preface Prologue A Human Perspective An Historic Perspective Theoretical Underpinnings A Neurolinguistic Perspective A Motolinguistic Perspective Developmental and Clinical Profiles Motor Performance Speech Performance Language Performance Assessment Strategies A Sense of Perspective Intervention Strategies Making Changes that Matter Appendix A Example of a Background Questionnaire for Child Patients Appendix B Operational Definitions of 13 Phonological Processes Appendix C Sixty Phrase Imitation Procedure Used in Studies of Phonological Performance Appendix D Analysis Form for Phonological Processes Analysis Appendix E Sample of a Completed Phonological Process Analysis Appendix F A Multifocal Therapy Approach for Cases of Developmental Motor Speech Disorders Index **Engineering** ,1918 **The New York**

**Times Index** ,1923      **Army-Navy-Air Force Register and Defense Times** ,1923      *Motor Speech Disorders* Nick Miller,Anja Lowit,2014-08-04 This book investigates cross language aspects of motor speech disorders including their assessment and treatment as well as the underlying neurophysiological and neuropsychological disruptions that bring about disorders of speech motor control      **The Encyclopaedic Dictionary** Robert Hunter,1896      **Universal Dictionary of the English Language: Rhe-Z** Robert Hunter,1897      *The Encyclopædic Dictionary* Robert Hunter,1888      **Army and Navy Register** ,1923      *Scientific American* ,1899

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