

Mental Retardation: Overview and Diagnosis

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Drs Walker and
Johnson did not
disclose any financial
relationships relevant
to this article.

Note: This is part 1 of a 2-part article. Part 2 will appear in July 2006.

Objectives After completing this article, readers should be able to:

1. Contrast the current criteria used by the American Association on Mental Retardation and the American Psychiatric Association *Diagnostic and Statistical Manual of Mental Disorders IV (DSM-IV-TR)* to establish a diagnosis of mental retardation.
2. Characterize the relationship between the age of presentation and the severity level of mental retardation.
3. Recognize the importance of obtaining a detailed family history (three generations) as part of the etiologic evaluation of mental retardation.
4. Know the mechanism of inheritance for Fragile X.
5. List age-appropriate instruments for the measurement of intelligence and adaptive skills.

Introduction

Mental retardation (MR) is one of the more common developmental disabilities. It can be idiopathic and challenging to recognize in normal-appearing children who have developmental delays. Conversely, MR can be easily recognized when the child presents with dysmorphic features associated with a known genetic MR disorder. Mental retardation currently is defined by the American Association on Mental Retardation (AAMR) as "significantly sub-average general intellectual functioning accompanied by significant limitations in adaptive functioning in at least two of the following skills areas: communication, self-care, social skills, self-direction, academic skills, work, leisure, health and/or safety. These limitations manifest themselves before 18 years of age."⁽¹⁾ Recognizing that a numerical value alone may be neither precise nor adequate to distinguish between the abilities of a child whose intelligence quotient (IQ) is 71 and one whose IQ is 69, the AAMR defines the upper limit of subaverage general intellectual functioning as "70 to 75" when there are also significant concerns regarding adaptive abilities. The American Psychiatric Association *Diagnostic and Statistical Manual of Mental Disorders*, 4th edition—Text Revision (DSM-IV-TR) definition of mental retardation differs from that of the AAMR in that its cutoff IQ score for MR remains 70 (Fig. 1).

In addition to the controversy regarding the definition of MR, controversies exist regarding terminology for and determination of levels of MR. The term "mental retardation" is seen by some as stigmatizing and pejorative, although those who object generally concede that any new term would soon have similar negative connotations. Other advocates fear that a change in terminology might affect program eligibility, legal status, and treatment within the criminal justice system. The term eventually may change to "cognitive-adaptive disorders," but after much debate, the term "mental retardation" was maintained in the newest edition of *Mental Retardation: Definition, Classification, and Systems of Supports*.⁽¹⁾ Levels of MR traditionally have been based on the number of standard deviations (SD=15 points) below the accepted statistical mean IQ of 100. However, the exact numbers may vary by plus or minus 5 points in consideration of standard measurement error and according to the scoring protocols for various testing instruments.

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reaching 60 years or more it has transformed from an acute condition with a short life span to a chronic condition that needs to be managed over a close to normal life span The extra chromosome 21 that defines most cases of Down syndrome affects the functioning of many biological processes and organ systems The cascade of events triggered by the extra chromosome 21 creates a complex set of medical conditions needing to be managed over the life span The ability to manage these conditions has led to an improvement in longevity and quality of life for individuals with Down syndrome Provides the most recent scholarly research in the study of health issues in Down syndrome A vast range of perspectives is offered and many topics are covered An excellent resource for academic researchers

Research to Practice in Mental Retardation V2: Education and Training Edited by Peter Mittler ,1977 **Mental Retardation Research Advances** Elizabeth B. Heinz,2007 Mental retardation is a term for a pattern of persistently slow learning of basic motor and language skills milestones during childhood and a significantly below normal global intellectual capacity as an adult One common criterion for diagnosis of mental retardation is a tested intelligence quotient IQ of 70 or below This book presents leading edge research from around the world **Research to Practice in Mental Retardation- Proceedings- 4th Congress International Association for the Scientific Study of Mental Deficiency- 3 Volumes ,** **Research to Practice in Mental Retardation** International Association for the Scientific Study of Mental Deficiency. Congress,1977 This chapter elaborates on three points of major interest that may influence the development of prenatal diagnosis of genetic disease services during the coming years

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Table of Contents Research To Practice In Mental Retardation

1. Understanding the eBook Research To Practice In Mental Retardation
 - The Rise of Digital Reading Research To Practice In Mental Retardation
 - Advantages of eBooks Over Traditional Books
2. Identifying Research To Practice In Mental Retardation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Research To Practice In Mental Retardation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Research To Practice In Mental Retardation
 - Personalized Recommendations
 - Research To Practice In Mental Retardation User Reviews and Ratings
 - Research To Practice In Mental Retardation and Bestseller Lists
5. Accessing Research To Practice In Mental Retardation Free and Paid eBooks
 - Research To Practice In Mental Retardation Public Domain eBooks
 - Research To Practice In Mental Retardation eBook Subscription Services

- Research To Practice In Mental Retardation Budget-Friendly Options
- 6. Navigating Research To Practice In Mental Retardation eBook Formats
 - ePub, PDF, MOBI, and More
 - Research To Practice In Mental Retardation Compatibility with Devices
 - Research To Practice In Mental Retardation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Research To Practice In Mental Retardation
 - Highlighting and Note-Taking Research To Practice In Mental Retardation
 - Interactive Elements Research To Practice In Mental Retardation
- 8. Staying Engaged with Research To Practice In Mental Retardation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Research To Practice In Mental Retardation
- 9. Balancing eBooks and Physical Books Research To Practice In Mental Retardation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Research To Practice In Mental Retardation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Research To Practice In Mental Retardation
 - Setting Reading Goals Research To Practice In Mental Retardation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Research To Practice In Mental Retardation
 - Fact-Checking eBook Content of Research To Practice In Mental Retardation
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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