Adaptive Functioning & Communication associated with Different Levels of Developmental Disabilities (DD)

INTELLECTUAL FUNCTIONING a, b	ADAPTIVE FUNCTIONING a, c (McCreary 2005)	COMMUNICATION (Anderson 2002)
MILD IQ: 55-70 (± 5) Percentile scores: First to third Age equivalence (AE): 9-12 years Grade: up to Gr. 6	 Unskilled job capability May need income support if jobs are scarce Often develops stable relationships but parenting skills 	 Uses a variety of sentence types (simple to complex) to communicate opinions, ideas, news, events, aspirations Vocabulary is extensive compared to adults with DD in the moderate to profound range
	 are poor Decision making: likely capable of making familiar medical decisions 	 Uses language to initiate and interact Conversational difficulties may exist Uses the phone and communicates in writing Able to understand and use abstract language but may have difficulty expressing ideas in sequence Can usually follow meaningful, simple, 3-step commands
MODERATE IQ: 40-50 (± 5) Percentile scores: Below the first AE: 6-9 years Grade: up to Gr. 2	 Supported employment Income support Regular residential supervision Help with banking and shopping Childrearing is beyond level of understanding and capacity Decision making: support with medical decisions is required 	 Uses phrases and simple sentences to communicate for various purposes, including expression of preference, emotion, interests and experiences Vocabulary adequate for daily functioning Asks and responds to questions about concrete information Some abstract language use in talking about past events Follows meaningful 2-step commands without support
SEVERE IQ: 25-35 (± 5) Percentile scores: Below the first AE: 3-6 years Grade: up to Gr. 1	 Continuing support and supervision in residential and day care programs needed Unable to manage family responsibilities Decision making: not capable of making most medical decisions except if familiar with the issue and provided sufficient support 	 Uses single- and two-word combinations, gestures and/or signs to indicate basic needs and to comment about his/her environment Vocabulary limited Gives and shows objects, points Comprehension still limited to the immediate environment but able to understand some action words Can follow meaningful 1-step commands with or without support (e.g., repetition, gestures)
PROFOUND IQ: < 20-25 Percentile scores: Below the first AE: 0-3 years	 Continuing 24-hour support and supervision needed Unable to manage family responsibilities Decision making: can be presumed to be not capable of making medical decisions 	 Uses nonverbal or single words, gestures and/or signs to indicate basic needs A few words possible May appear non-interactive Comprehension limited to people, objects, and events in the immediate environment May follow some routine commands due to understanding the situation rather than the actual words

Notes

- a. Understanding the intellectual abilities and adaptive functioning of persons with DD sets the stage for productive clinical encounters. This in turn leads to optimal assessments and appropriate treatments. It also promotes better partnership with persons with DD and enables them to participate in their own health care.
 - Intellectual abilities include reasoning, planning, solving problems, thinking abstractly, comprehending complex ideas, and learning from experience.
 - Different levels of intellectual and adaptive functioning require different types and intensity of supports and service coordination.
- **b.** Levels of intellectual functioning are described in terms of Intelligence Quotient (IQ), Age Equivalence (AE), performance in school and percentiles.
 - This information can be helpful as a general guide but does not always reflect the person with DD's individual capabilities.
- c. Adaptive functioning or adaptive behaviour refers to the skills (conceptual, social, and practical) that a person with DD has to handle the common demands of everyday life. It is an indication of how independent he or she is, compared to others with DD of a similar age and level of intellectual functioning.
 - Areas of adaptive functioning that are affected to varying degrees in persons with DD include self-care abilities, receptive and expressive language, social skills, understanding, learning and remembering new things, self-direction, capacity for independent living, and economic selfsufficiency.

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References

- 1. McCreary BD. Developmental disabilities and dual diagnosis: A guide for Canadian psychiatrists, Developmental Consulting Program, Queen's University, 2005.
- 2. Anderson M. In: "Help me speak": Speech language pathology services provided to individuals with dual diagnosis reference table: Communication interventions & adults with DD level of severity and projected outcomes. State of the HART: Habilitative Achievements in Research and Treatment for mental health in developmental disabilities; April 18, 19, 20, 2002; Vancouver, BC: Interprofessional Continuing Education, University of British Columbia; 2002. pp.113-26.