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Abstract

The phrase "Intellectual Disability" describes the degree of aspects of mind that particular youngster's exhibit. It is the situation where the cognitive advancement of a youngster's is hindered to the extent that it results in a major handicap in the ability to properly process, problem-solve, and adapt to information received from their environment. The definition, underlying causes, and conceptual understanding of children with intellectual impairments are covered in this overview study. Significant impairments in adaptive and intellectual performance behaviour-expressed as conceptual, social, and practical adaptive skills—are characteristics of intellectual disability. An IQ level under 70 and deficiencies in everyday activities or adaptive behaviour abilities (eating, dressing, communicating, and participating in group activities) are considered signs of an intellectual disability. Intellectually disabled individuals learn slowly and struggle with abstract ideas. The features of people with the intellectual disabilities are also discussed in this work in some detail.

Keywords: Intellectual Disability, Causes, Categorization and Features

Introduction

Intellectual disability is an abnormality with significant societal repercussions; it has an impact not just on the person with it but also on their family and the wider community. Intellectual disability is a lower cognitive ability that affects how quickly, effectively, and efficiently a person learns, recalls, and applies new information in comparison to the overall population.

People with intellectual impairments have undergone a profound transformation in many facets of life over the past century, including healthcare, employment, education, leisure, and living arrangements (World Health Organization, 2000). Throughout history, it has undergone numerous definitions and renaming's. Intellectual disability has now taken the position of mental retardation in the majority of nations, where it was previously used until the late 20th century. Intellectual Disability has taken its position in Diagnostic and Statistical Manual, Fifth Revision (DSM-V).

As opposed to mental retardation, the term intellectual disability is becoming more prevalent due of the following:

- Reflects the concept of transformation for disabilities as defined by the AAIDD and WHO.
- More closely resembles modern professional approaches that put a focus on functional behaviour and contextual variables.
- Is more respectful to people with disabilities.
- Is more in keeping with terms used international.

With other kids their age who does not have difficulties, intellectually disabled children frequently participate in a variety of activities (such as play, making clay, group dancing, music, and creative art). Due to the fact that quality of life, health, education, work, and enjoyment are all fundamental rights for children with intellectual disabilities, it is imperative that they be treated gently and justice. The variety of emotional and mental requirements experienced by people with intellectual impairments is the same as that of the general population. Knowledge acquisition, memory, and application are all components of intelligence. The ability to relate information to novel contexts is lacking in children with intellectual disabilities; they have difficulty understanding abstract concepts as opposed to concrete ones; they also grow their learning sets more slowly than peers without disabilities. (SHREE, 2016)

Intellectual Disability

A person with intellectual disability is someone who has a markedly decreased capacity to comprehend novel or challenging concepts information, to learn new skills, or cope on one's own (impaired social functioning) – which began before adulthood and can have a long-term impact on the person's development.(Department of Health (United Kingdom), 2001, p.14)

A state of functioning known as intellectual impairment (mental retardation) that starts prior to turning 18 is marked by considerable limits in both intellectual performance and adaptive behaviour. Over past few decades, the concept of intellectual impairment has undergone several revisions in response to shifting social, political, and professional factors as well as changes in how people perceive the disease. The AAIDD's definition of intellectual disability is the one that is most commonly accepted: Cognitive functioning and adaptable behaviour, as shown by conceptual, social, and practical adaptive skills, are both significantly limited in people with intellectual impairments. Prior to turning 18, this handicap first appears. (AAIDD [AAMR], 2002,p.1)

According to the following three standards, a person is deemed to have an intellectual disability:

- 1. Subpar mental ability includes learning, thinking, problem-solving, and other aspects of general mental capability. IQ testing is one tool used to assess intellectual capacity. An IQ test score between 70 and 75 typically denotes intellectual functioning limitations.
- 2. Significant gaps occur in two or more categories of adaptive skills: It is the set of theoretical, social, and practical abilities that people learn and use on a daily basis.
 - Conceptual skills Concepts of money, time, and numbers, as well as literacy and self-direction

- Social skills The ability to obey laws, adhere to standards, and refrain from being a victim are all important, as are interpersonal abilities, civic duty, and self-worth, credulity, gullibility, naiveté (i.e., wariness), and social problemsolving.
- Practical Skills Personal care tasks, work-related skills, healthcare, travel and transportation, timetables and routines, safety, monetary management, and telephone use are all examples of daily life activities.
- 3. Prior to turning 18, the condition becomes apparent: This ailment is one of several developmental impairments, meaning that it was present prior to turning 18 and that it was operationalized as the developmental period.

Causes of Intellectual Disability

The majority of people with severe intellectual disabilities - roughly 70% - and those with mild intellectual disabilities - 50% - have a biological or organic basis for their illness. The lower end of the typical IQ distribution may simply be reflected in certain children's cognitive deficiencies. In these situations, how something functions is a result of how environmental and genetic influences interact. Few of the psychosocial issues that have been linked to intellectual functioning include poverty, abuse, neglect, lack of stimulation, and poor parent-child interactions. Finding the root of intellectual disability is a challenging process. There are many different causes of intellectual disability, and frequently the cause is not known. In reality, only around half of all cases of intellectual impairments can be linked to a particular cause. In an effort to identify potential biological reasons of intellectual disability in a person, below presents the factors according to the time of onset: prenatal (occurring before birth), perinatal (occurring around that time of birth), and postnatal (occurring after birth).

(Smith, 2006) (Department of Health (United Kingdom), 2001, p.14)

Table 1: Illustrative list of possible Intellectual Disability causes

Type	Example	Characteristics and Consideration
Chromosomal	Down Syndrome	➤ Most common chromosomal
abnormality		abnormality
		Distinctive-physical
		characteristics
		Mild to moderate intellectual
		impairment in general
	Fragile X syndrome	➤ One of the main underlying
		factors contributing to
		intellectual disability
		Predominantly affects males
		Distinctive physical features
		Learning characteristics might
		vary greatly.
Metabolic	Phenylketonuria (PKU)	➤ Inborn error of metabolism, a
Disorders		recessive trait
		Dietary intervention initiated
		shortly after birth prevents

		occurrence of intellectual disability
Maternal Infections	Rubella (German measles)	One of the main underlying factors of multiple impairments in children
		Exposure during first trimester of pregnancy usually results in severe consequences
Environmental	Fetal alcohol syndrome	> One of the main underlying
conditions		factors of intellectual disability
		Physical abnormalities along
		with a mild to moderate
Gestational	Low high weight /	intellectual disability Infant at danger for life-
disorders	Low birth weight / prematurity	➤ Infant at danger for life- threatening issues at birth
uisorucis	prematurity	Potential for sensory and
		learning issues, as well as
		major impairments
		➤ More prevalent in mothers of
		low-income families, teenage
		pregnancy and women engaged
Neonatal	Anavia(ayyaan	in substance abuse Complicating circumstances
complications	Anoxia(oxygen deprivation)	Complicating circumstances around birth may cause
complications	Birth trauma	intellectual disability and
	Breach presentation	additional developmental
	Prolonged delivery	delays
Infectious and	Meningitis	Viral infection causing damage
intoxicants		to the covering of the brain –
		the meninges
		May result from typical childhood illness such as
		childhood illness such as chicken pox or mumps
		➤ Intellectual disability is a
		distinct possibility
	Leading poisoning	High toxic substance
		➤ Infants/toddlers living in older
		homes in improvised areas
		places where ingestion is risky
		lead- based paint chips Possibility of causing seizures,
		harm to the central nervous
		system, and brain damage
Environmental	Malnutrition	Correlates of intellectual
factors	Environmental deprivation	disability, but not necessarily
	Child abuse / neglect	their causes, particularly in
		cases of moderate intellectual

disability
➤ Best understood as interrelated
psychosocial risk factors that
increase some children's
susceptibility to learning
difficulties

Source: R.Garguilo, Special Education in Contemporary Society,3rd ed. (Gargiulo, 2009)

The possibility that a particular causes cannot be identified increases generally with the severity of the retardation. Even if they share similar etiological reason, no two intellectually disabled students are alike.

Categorization of Intellectual Disability

Over several decades ago, various classification schemes for kids with intellectual disabilities have been devised. Four levels of impairment severity (mild, moderate, severe, and profound intellectual disability) were used in the 1973 and 1983 AAIDD definitions of intellectual disability. This system of categorization is still widely accepted and used today.

Table 2: Illustrative level of disability severity for people with intellectual disability

Level	of	IQ range	Approximate	& of person with Intellectual
Intellectual			mental age in	Disability at this level
Disability			adulthood	
Mild		55-69	8 years, 3 months to 10	85
			years, 9 months	
Moderate		36-51	5 years, 7 months to 8	10
			years, 2months	
Severe		20-35	3 years, 2months to 5	3.5
			years, 6 months	
Profound		<20	<3 years, 2 months	1.5

Source: (Sattler, 2002, p. 337)

According to the prevailing theory, there are numerous causal elements that contribute to intellectual disability, including genetic predisposition, environmental insults, developmental susceptibility, inheritance, and environment (Harris, 2006). As a result, the AAIDD recommended the subsequent four categories as part of a multifactorial aetiology. ((AAMR), 2002, p. 127).

- 1. Biomedical: factors relate to biological processes, such as genetic disorders or nutrition.
- 2. Social: factors relate to social and family interaction, such as stimulation and adult responsiveness.
- 3. Behavioural: factors link to potentially causative behaviours, including as risky (harmful) activities or maternal substance addiction.

4. Educational: factors linked to the accessibility of educational resources that facilitate the growth of cognitive and adaptive skills.

The classification system used by AAIDD is based on the kind and amount of assistance needed by the individual in order to operate in the home and community. AAIDD advises four tiers of assistance:

Table 3: Illustrative Level Based on Needed Support

Support Level	Descriptive with Examples
Intermittent	On a "as needed basis," supports are given.
	These aid may be sporadic, meaning that the
	person does not constantly require it, or
	short-term, taking place during life
	transitions (e.g., job loss or acute medical
	crisis). There are many levels of intensity
	for intermittent assistance.
Limited	Consistency is a feature of supports; while
	the time needed may be brief, the need is
	constant. In comparison to more extensive
	levels of assistance (examples include time-
	limited employment training and supports
	during the transition from school to
	adulthood), fewer staff members may be
	needed, and expenses may be cheaper.
Extensive	Regular participation (daily, for example) in
	some places, like the workplace or home,
	distinguishes supports from other types of
	assistance. Supports are also not time-
	limited (long-term employment and home-
	living assistance, for example, will be required).
Pervasive	Consistent and powerful supports are
reivasive	required. They must be offered in a variety
	of conditions and might even be life-
	sustaining. Compared to intensive or time-
	limited interventions, ubiquitous supports
	often include more workers and are more
	obtrusive.
	Outusive.

Source: Adapted from Mental Retardation: Definition, Classification and Systems of supports, 10th ed. ((AAMR), p. 152).

Features of Intellectual Disability

The following sub-headings present features of people with intellectual disabilities that may affect their academic learning and the capacity to adapt to their circumstances at home, school, and in the community:

➤ General Cognition

People with intellectual disabilities range widely in terms of their physical characteristics, emotional states, and views. They may appear to learn slowly because of their delayed rate of cerebral growth. (Wehman, 1997). Learning can occur at an adequate rate and volume for persons with intellectual disabilities when they focus on the right parts of the learning stimuli rather than the wrong parts. (Vakil, 1997) (Werts, 1996). An intellectually disabled person's general cognition—their capacity and comfort in learning—is more likely to depend on the kinds and amounts of support they receive to perform at a certain level or at a given task. This is not to say that an IQ test result is irrelevant. (Hourcade, 2002).

> Learning and Memory

Individuals with intellectual disabilities possess much worse learning and memory skills than their non-disabled peers. People with intellectual disabilities acquire their learning sets more slowly than their peers who are not disabled, and they struggle to apply knowledge to novel contexts. (Bernie-Smith, J.R, & S, 2006). Intellectually disabled children may struggle to recognise the circumstances or behaviours that promote learning and memory, and they may not apply appropriate learning or memory retention strategies on their own. (Fletcher, 2003).

> Attention

Children must focus on the learning activity for the necessary amount of time and manage distractions in order to learn knowledge. Intellectually disabled children may struggle to recognise and pay attention to pertinent concerns in both academic and social contexts. (Sauders, 2001). The challenge is not that the student won't pay attention, but rather that they do not comprehend or do not filter the material to find the important details. (Hunt, 2002)

> Adaptive Skills

Intellectually disabled people frequently lack the same adaptive qualities as their peers who are not disabled. Due to their increased distractibility, inattentiveness, inability to read and impulsive behaviour, intellectually disabled children may find it challenging to learn new skills as well as apply them. (Hardman, 2008). Children who are not disabled did see their peers with intellectual impairments as friends, according to research on the level of social relationships between minor intellectually disabled children and peers without disabilities. (Lee, 2003)

> Self - Regulation

According to information-processing theory, the under-development of metacognitive processes is what causes the learning deficits in intellectually disabled individuals. Memory, rehearsal abilities, organising skills, and the ability to direct the learning process are all significantly impacted by the absence or underdevelopment of these capabilities. (Erez, 2001)

> Speech and Language

Language comprehension and formulation issues, as well as delayed speech, are common among people with intellectual disabilities. Language issues typically include delayed language development rather than strange language use. (Bernie-Smith, J.R, & S, 2006). The ability to take turns, choose appropriate conversational topics, know when to speak and when to be silent, and other similar contextual skills may be delayed in persons with intellectual disabilities. (Haring, 1994). The aetiology and severity of intellectual disabilities are strongly connected with the severity of

speech and language issues; less severe the intellectual disabilities, the lesser severe language issues are. (Moore - Brown, 2006)

> Motivation

People with intellectual disabilities sometimes characterised as lacking motivation or acting in an outwardly focused manner. They may come off as less motivated and goal-directed due to previous failures and the worry those failures caused. Failure frequently teaches us helplessness. Failure in the past is likely to cause dependence on outside reinforcement or reward sources rather than internal reward sources. They are less likely to be independent individuals driven by self-approval. (Bernie - Smith, 2002)

> Academic Achievement

Intellectual disabilities that are mild to moderate in children frequently struggle academically due to their cognitive inefficiencies. (Hughes, 2002). Children with intellectual disabilities are able to understand simple calculations, but they might struggle to apply principles correctly in a circumstance when they need to solve a problem. (Bernie-Smith, J.R, & S, 2006). There is growing evidence that mild to severe intellectual disabilities in children can learn academic subjects and use them to increase their orientation and mobility, participate in social situations, and make decisions. (Browder, 2006)

> Physical Characteristics

Intellectually disabled children that have a variety of biological causes may also have coexisting issues like physical, motor, orthopaedic, visual, auditory, and health issues. (Hallahan, 2006). There is a correlation between a person's degree of physical deviations and their intellectual difficulties. (Drew, 2007)

Conclusion

Being a social animal, humans should treat intellectual disability in a comprehensive and all-inclusive manner. To face potential challenges, they require inspiration and assistance. The argument that using the word "intellectual disability" would be less stigmatising is not supported by research. The issue is in society, not with the particular person. The ridiculing of the language is probably a result of the preconceptions and stereotypes that people have while thinking about people with intellectual disabilities. Stigma is a multifaceted, psychological issue rather than a problem with words per se. Significant cognitive and adaptive behaviour impairment is a hallmark of intellectual disability. Loss effects of those with intellectual disabilities and those who are usually developing. However, because to their communicative and cognitive needs, this demographic requires special consideration. Due to subsequent loss, communication difficulties, and difficulty or incapacity to find meaning in the loss, intellectually disabled people are more likely to experience the traumatic grief symptoms.

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