



**PHYSICALLY  
CHALLENGED  
CHILDREN**

# CONCEPT OF DISABILITY

- According to WHO the sequence of events leading to disability and handicapped conditions are as follows:

Injury or disease → impairment →  
disability → handicap

## IMPAIRMENT

- Any loss or abnormality of psychological, physiological or anatomical structure or function.

## DISABILITY

- It is the inability to carry out certain activities which are considered as normal for the age and sex.

## HANDICAP

- It is a socialized event leading to disadvantages of individuals life and disturbances in the achievement of full potential.

# CAUSES OF DISABILITY

- Before birth
- At the time of birth
- After birth

# CLASSIFICATION

- Physically handicapped children
- Mentally handicapped children
- Socially handicapped children



# **MOTOR DISABILITY**

# DEGREE OF DISABILITY

- Grade 0- motor function performed without difficulty
- Grade 1- motor function performed with difficulty
- Grade 2- motor function performed using aids
- Grade 3- motor function performed using partial assistance
- Grade 4- motor function performed with complete assistance
- Grade 5- motor function performed with aids and assistance
- Grade 6- motor function cannot be performed

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- **CAUSES**
  - **EARLY INTERVENTION**
  - **PREVENTION**



# **HEARING DISABILITY**

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- **TYPES OF HEARING LOSS**
  - **CAUSES**
  - **DEGREE OF HEARING LOSS**
  - **DIAGNOSIS**
  - **MANAGEMENT**



# **VISUAL DISABILITY**

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- **CAUSES**
  - **DIAGNOSIS**
  - **MANAGEMENT**



# **ORTHOPEDICALLY HANDICAPED CHILDREN**

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- **Specific problems of the disabled children**
  - **Role of the family**
  - **Role of school**
  - **Prevention of disability**
  - **Management of disability**



# **MENTAL RETARDATION**

# DEFINITION

*Mental retardation refers to significantly sub average general intellectual functioning existing concurrently with deficits in adaptive behavior manifested during the developmental period.*

# INCIDENCE

- Approximately , 125,000 births per year.
- A prevalence rate of approximately 2 to 3% in the general population is accepted.

# CLASSIFICATION

- Mental retardation is classified depending upon the Intelligence Quotient level.

- $$IQ = \frac{\text{Assessed mental age} * 100}{\text{Chronological age}}$$

Chronological age

The mental retardation is classified as follows:

- Borderline mental retardation(IQ level 71 to 84)
- Mild mental retardation(IQ level 51 to 70)
- Moderate mental retardation(IQ level 36 to 50)
- Severe mental retardation(IQ level 21 to 35)
- Profound mental retardation(IQ level below 20)

# ETIOLOGY

- Genetic causes
- Congenital anomalies
- Infections and intoxications
- Trauma
- Metabolic abnormalities
- Gross postnatal brain diseases
- Unknown prenatal conditions
- Gestational disorders
- Psychiatric disorders
- Environmental and socio cultural factors

# CLINICAL MANIFESTATIONS

## **In Newborn:**

- General hypotonia
- Oblique palpebral fissures
- Abundant neck skin
- Small, flattened skull
- High cheekbones
- Protruding tongue
- Broad and thick hands
- Little fingers are short and curved inward
- Moro reflex is weak or absent
- Microcephaly
- Dysmorphic features

## **In Infancy:**

- Poor feeding
- Weak sucking leading to poor weight gain
- Delayed visual and auditory response
- Reduced spontaneous activity
- Delayed head and trunk control
- Hypotonia
- Poor mother child interaction

## **In Toddler:**

- Delayed speech
- Language disabilities
- Delayed motor milestones
- Failure to achieve independence
- Short attention span
- Distractibility
- Clumsiness
- Poor memory
- Poor concentration
- Emotional instability
- Sleep problems
- Impulsiveness

## **In Preschool**

- Language difficulties
- Delay behavior difficulties
- Delay in fine motor skills

## **In School**

- Academic underachievement
- Behavior difficulties

# DIAGNOSTIC EVALUATION

- History collection
- Developmental screening
- Parent- child interaction assessment
- Vision screening
- Hearing screening
- Physical assessment
- Neurologic assessment
- CT scan, X- rays, EEG, chromosome analysis, thyroid studies

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- **PREVENTION**
  - **MANAGEMENT**
  - **NURSING MANAGEMENT**



# **REHABILITATION**