



Care of



Disabled

Introduction

The consequences of disease

- Something abnormal
(At birth or acquired)

- Changes in **structure**
Or function

Manifestation

Etiology → Abnormal Condition

Pathology

Symptoms & Signs

سبب المرض

Abnormal Condition



تلازم المرض

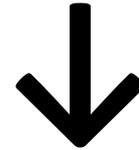
يظهر عليه



- Someone becomes aware

Clinical disease

Pathological state is exteriorized



ضعف



Impairment

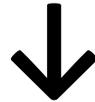
(Disturbance at the organ level)



- Altered behavior or performance
(Consequentially or cognitively)



Experience is objectified



Disability *invgubel*

(Disturbance at the level of person)



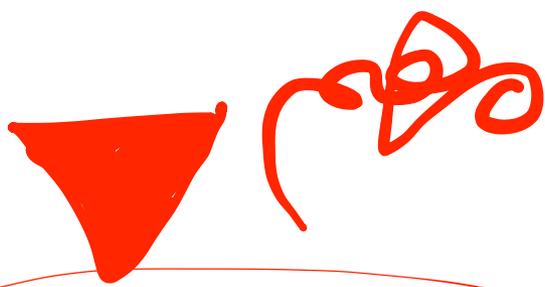
- Disadvantage relative to others

Socializing the experience



الإصابة بالشلل

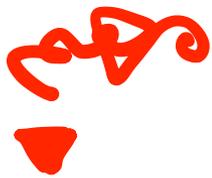
Handicap



Definitions

Impairment:

- In the context of health experience, Impairment is any Loss or Abnormality of physiological, psychological or anatomical Structure or Function
- It refers to an underlying molecular, cellular, psychological or structural disorders within an individual. *



Definitions

Disability

- In the context of health experience, Disability is any ^{تقييد} Restriction or Lack of Ability to Perform an Activity in the Manner or within the Range considered normal for a human being.
- It refers to a Stable and Persistent deficit in function, often the consequence of Impairment and also confined to the individual.

Definitions

Handicap: عائق:

- In the context of health experience, A handicap is a disadvantage for a given individual, resulting from an impairment or a disability, that **limits** or **prevents** the fulfillment of a role that is normal for that individual (depending on age, sex, and social and cultural factors).
- It refers to the limitation on carrying out social roles defined **as appropriate** for an individual of certain age, gender or class.

Definitions

New definition and classification:

The new definition emphasized that, the human functioning state is a result of the interaction between three dimensions:

1. The **biological** status with
2. the **psychological** status and ** important*
3. the coping mechanisms of the human being and the environment and the society surrounding.

New definition and classification:

- In the past, disability was interpreted according to a **Medical Model**. That is, disability was linked to various medical conditions, and was viewed as a problem residing solely (exclusively) in the affected individual.
- Disability was seen solely as the result of an individual's inability to function.

New definition and classification:



- ✓ This medical model has recently been replaced by the **Social Model** of disability.
- ✓ Social model conceptualizes **disability as arising from the interaction of a person's functional status with the physical, cultural, and policy environments.**
- ✓ If the environment is designed for the **full** range of human functioning and incorporates appropriate accommodations and supports, then; People with functional limitations would not be “disabled” in the sense that they would be able to fully participate in society.



إذا تم تصميم البيئة لمجموعة كاملة من الأداء البشري وتدمج الإقامة المناسبة والدعم، ثم؛ لن يكون الأشخاص ذوو القيود الوظيفية "معاقين" بمعنى أنهم سيكونون قادرين على المشاركة الكاملة في المجتمع.





الشعور
بكياتي ليس بالعطف
المهين فاني اسئد
العطف دوما
من الله رب العالمين

RJT 3goolh PZeeNH



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اكاسيا البحرين

Required Interventions

Three major areas of required interventions; namely,

1. Prevention

2. Rehabilitation

3. Equalization of opportunities

معادلة الفرص

Required interventions

A-Prevention:

- All the measures aimed at preventing the onset of mental, physical and sensory impairments (primary prevention) or
- Measures aimed at preventing impairment, when it has occurred, from having negative physical, psychological and social consequence.

Required interventions

إعادة التأهيل

B-Rehabilitation:

- Aimed at enabling an impaired person to reach an optimum mental, physical and social functional level, thus providing him with the tools to change his own life.

It can involve measures:

- intended to **compensate for a loss of function** تهدف إلى التعويض عن فقدان الوظيفة and/ or intended to **facilitate social adjustment or readjustment.** تهدف إلى تسهيل التكيف الاجتماعي أو التعديلات.

Required interventions

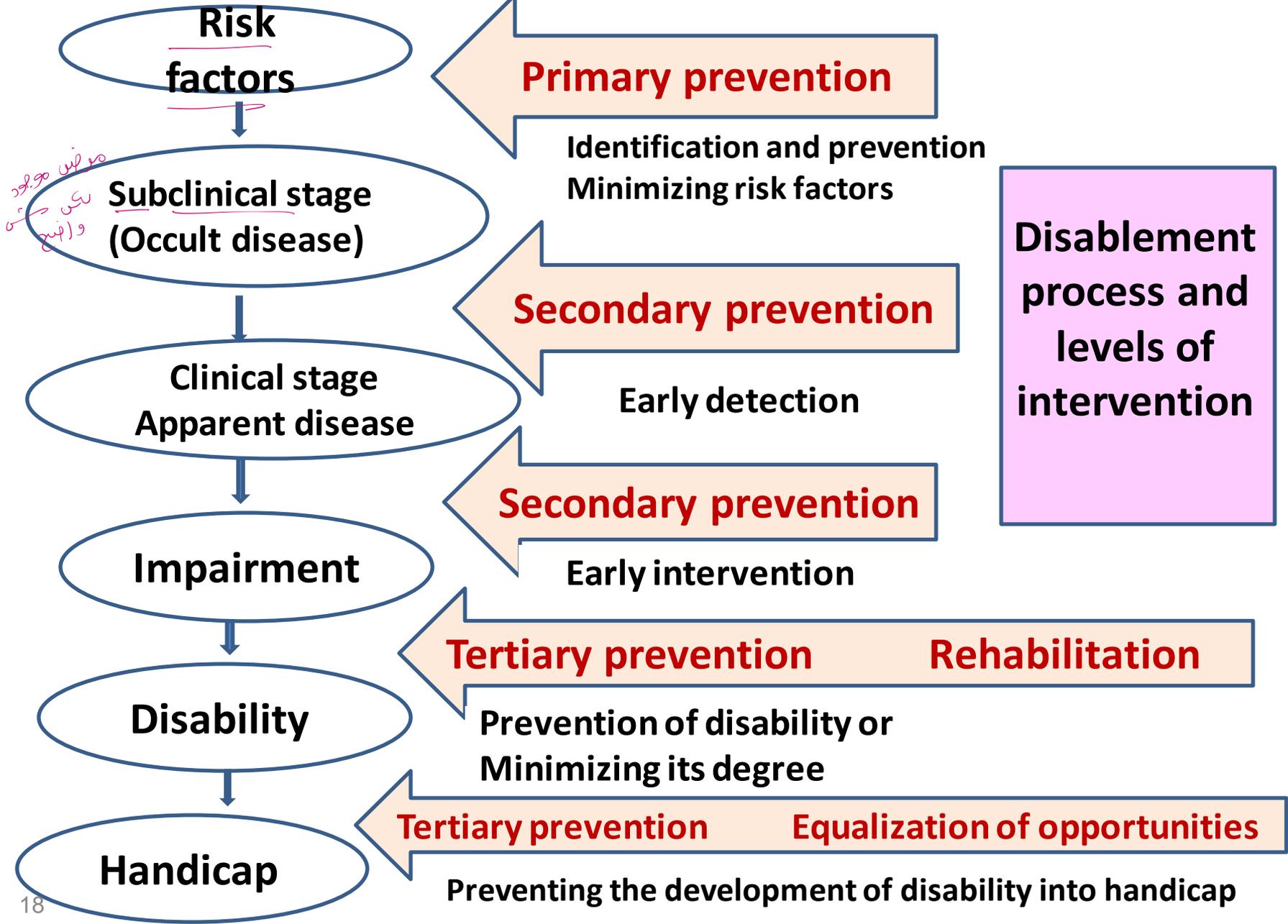
C-Equalization of opportunities:

It is the process through which the general system of society are made accessible to all such as:

1. The physical and cultural environment,
2. Housing and transportation,
3. Social aid health services,
4. Educational and work opportunities,
5. Cultural and social life, including sports and recreational facilities, are made accessible to all.

Disablement process

Levels of prevention



Benefits of early intervention

Helps children with disabilities: Gains in cognitive, physical, language and social skills.

Benefits for families:

- Helps families manage the child
- Reduces stress 

Benefits for the society:

مرکز و اطباء کودکان گوده ارحم.

- Reduces means for institutional placement.
- Reduces need for special education
- Saves money

Effects of disability

I. Emotional adjustment

People's reaction to their disabilities vary with:

- A- The individual, the severity of the handicap, and the time of life when the condition began
- B- Social: social discrimination and the limited concessions made by the community

Effects of disability

بہن ولد کا نئے ہووے مندہ ابراخامہ

Individuals born with an impairment:

- Those people have never experience what we consider a normal life, and their awareness that they are different may develop slowly as their social contacts increase.

Effects of disability

مباشرة بعد ان يسبب حادث او ازمة ثانية.

Individual who acquire an impairment:

(through injury or sudden disease have more dramatic and immediate adjustment to make)

- They must cope with their medical problems.
- They have to adjust to a new social situation and accept new attitudes from others.
- In addition they may be coping with job loss, family crisis, and marital stress.

Effects of disability

II. Social issues: ▼

1. The attitude of others:

موقف الآخرين:

This is a major problem due to:

- A. lack of understanding on the part of the non-disabled and , on the other hand
- B. there is limited patience on the part of the handicapped individuals.

الغضب والإحباط

Disabled may react with anger and frustration when inappropriate assistance is forced upon them from non-disabled persons.

Effects of disability

2. Behavioral and social acceptance:

- **Social behavior skills** (مهارات السلوك الاجتماعي) are needed for a person to experience social acceptance and participation in community life.
- This is considered to be a difficult task in disabled persons.

In order to have a socially productive life disabled persons face three main problems:

1. Affordability and availability of assistive devices.
2. Employment and financial concerns.
3. Accessibility problems, e.g. transportation.

Categories of childhood disabilities

المحواس الخمسة

A) Sensory disabilities:

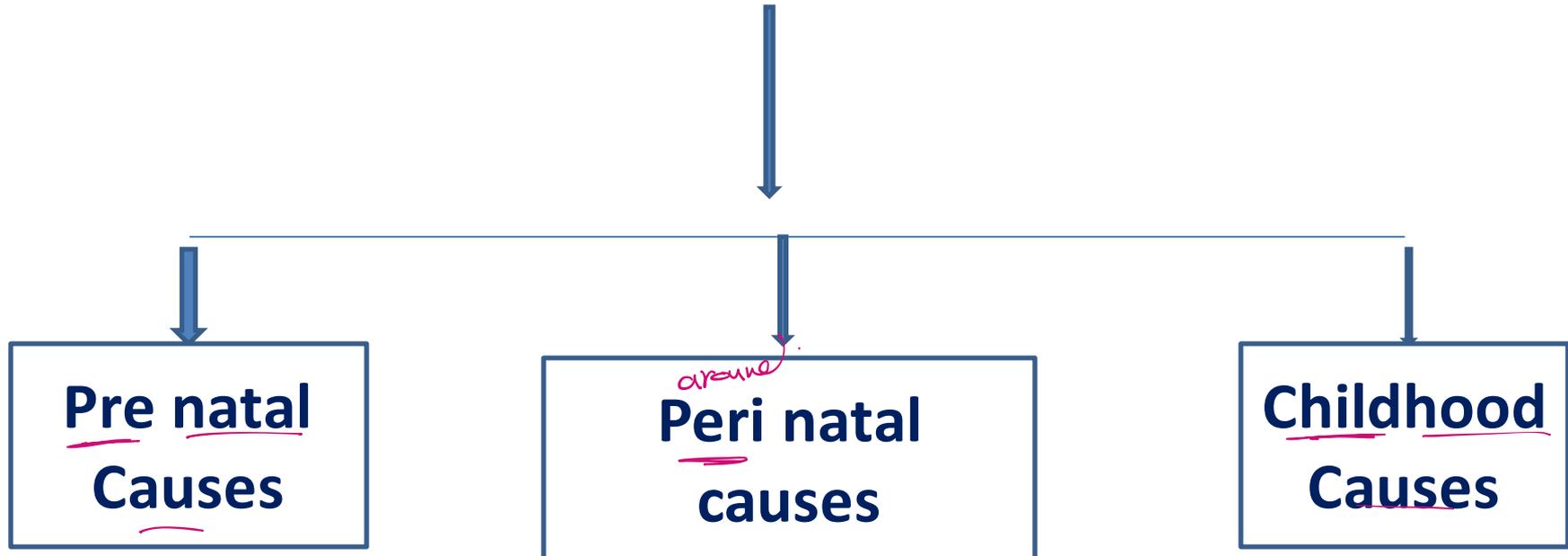
1. Visual disabilities (partial sight or with blindness)
2. Hearing disabilities (lack or reduction in the ability to hear clearly)
3. Speech or language impairment (which has an impact and an adverse effect on the child educational performance).



Categories of childhood disabilities

- B) Physical (motor) disabilities
- C) Mental disabilities: as mental retardation
- D) Emotional disturbance
- E) Specific learning disability
- F) Traumatic brain injury
- G) Other health impaired conditions, e.g. chronic diseases as DM, epilepsy.
المرض

Causes of disabilities



I. ^{قبل الولادة} Prenatal causes of disabilities

1) Chromosomal cause:

- Chromosomal abnormality can involve the loss, gain or exchange of genetic material from chromosome pair, e.g. Down syndrome.

2) Genetic causes:

- e.g. genetic defect as sickle cell disease.

3) Rh. Factor:

- When an Rh +ve man and an Rh -ve woman have children with Rh incompatibility, the mother's blood may begin to form antibodies against the foreign positive Rh factor.

I. Prenatal causes of disabilities

The resulting destruction of Rh incompatibility may be:

- Limited causing only anemia,
- Excessive causing cerebral palsy, deafness, mental retardation or even death.

4) Maternal stress:

- Prolonged emotional stress during pregnancy may have a consequence on the child as low birth weight (LBW), hyperactivity and irritability.

I. Prenatal causes of disabilities

5) Environmental causes:

- a) External agents: as exposure to irradiation such as X ray, the greater danger for malformation comes between the second and sixth weeks after conception.
- b) Drugs: Teratogens are drugs producing birth defects as
1. Legal drugs (nicotine, caffeine),
 2. Prescription drugs (some antibiotics, hormones, steroid, and tranquilizers)
 3. Illegal drugs (Cocaine, heroin, marijuana and environmental pollutants (lead, methyl mercury))

I. Prenatal causes of disabilities

- c) Maternal nutrition: Example deficiency of Folic Acid is a risk factor for having a baby with Spina Bifida.
- d) ^{Torch.} Maternal infections: viral diseases such as cytomegalovirus, rubella and chicken pox are particularly dangerous during the early fetal periods.

I. Prenatal causes of disabilities

6) Maternal diseases and disorders during pregnancy:

- Children whose mothers had severe toxemia during pregnancy have a risk of lowered intelligence.

7) Age of the mother:

- Teenage mothers have a greater risk to have babies with low birth weight and neurological defects.
- Mothers over 40 have an increased risk of having children with chromosomal abnormality.

around the delivery

II. Peri-natal causes of disabilities

أثناء الولادة (حول الولادة)

1. **Drugs** taken during labor and delivery as some painkillers.
2. **Premature infants:** this is more common
among:
 - economically deprived mothers
 - smoking
 - alcohol
 - various drugs

Peri natal causes of disabilities

3. **Oxygen deprivation:**

- brain hemorrhage
- failure to breath
- more likely to occur with prolonged labor

3. **Infections:** sexually transmitted diseases (STD) can affect the baby (example; AIDS, Gonorrhea, Syphilis and herpes)

III. Childhood causes of disabilities

1) Injuries



2) Childhood diseases: Meningitis and encephalitis

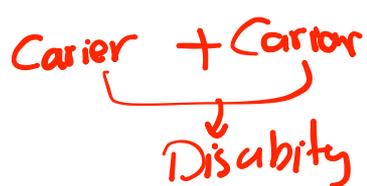
3) Environmental causes: for some children environmental deprivation has a debilitating effect on the development of abilities such as Language Use, Adaptive Behavior, and Cognition

- Deprivation can include: poor nutrition, poor housing, lack of social interaction



Prevention of disability:

Primary prevention:

A) Genetic counseling: It is the process of providing information on: *Recessive disorder.* 

1. The nature and consequences of genetic disorders
i.e. it has a diagnostic aspect
2. Genetic recurrence risk i.e. to ascertain which individuals at risk of having an affected child
3. The means available for the prevention of transmission of defective genes

الوسائل المتاحة لمنع انتقال الجينات المعيبة

Prevention of disability:

- Genetic screening and counseling prior to conception is important for the control of genetically determined disabilities

B) Pre-pregnancy Planning: as checking medical conditions of women, Rh factor, infections such as venereal diseases and rubella immunization

من Venus
الأمراض
الجنسية

الحصبة الألمانية

Prevention of disability:

c) Improved prenatal, natal and postnatal care.

The aspect of prevention concentrates on:

- ✓ The management of maternal risk factors at the time of delivery
- ✓ Support for the premature or compromised neonates

Prevention of disability:

D) Immunization programs: Programs of general immunization during infancy have led to a remarkable decrease in infectious diseases that used to be a major cause of disability

- These include Poliomyelitis, Tuberculosis, Meningitis, Encephalitis and Measles.

Prevention of disability:

اللوائح والتشريعات

E) Regulations & legislation

Certain health regulations and legislation such as:

- ✓ Mandating immunization of infants
- ✓ Legislation concerning safety of toys, seatbelts, fireworks...etc. also play an important role in primary health prevention

MMR DPT

Prevention of disability:

Secondary prevention

- ❑ Accurate and early recognition of the disability:
- **Some impairment features are physical & obvious during clinical examination**
- These include skeletal abnormalities, blindness, hearing and speech disorders, some mental disorders and some chromosomal anomalies

FIGURE 2.4 - SOME CHROMOSOME ABNORMALITIES

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Name	Description	Treatment	Incidence
Down syndrome	An extra chromosome causes mild to severe retardation and physical abnormalities.	Surgery, early intervention, infant stimulation, and special learning programs	1 in 1,900 births at age 20 1 in 300 births at age 35 1 in 30 births at age 45
Klinefelter syndrome (XXY)	An extra X chromosome causes physical abnormalities.	Hormone therapy can be effective	1 in 600 male births
Fragile X syndrome	An abnormality in the X chromosome can cause mental retardation, learning disabilities, or short attention span.	Special education, speech and language therapy	More common in males than in females
Turner syndrome (XO)	A missing X chromosome in females can cause mental retardation and sexual underdevelopment	Hormone therapy in childhood and puberty	1 in 2,500 female births
XYY syndrome	An extra Y chromosome can cause above-average height.	No special treatment required	1 in 1,000 male births

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Prevention of disability:

Secondary prevention

- ✓ Several other disorders do not become evident until later in life.
- ✓ This has been possible using **biochemical tests** and **more recently**, by applying **recombinant DNA technology** to the **identification of the molecular basis of genetic disorders**

Prevention of disability:

Secondary prevention

Responsibility of early detection

- The family in general and the mother in particular play a significant role in early detection of disability
- Abnormalities in development, both physical and others and delay in learning abilities may become obvious to the diligent eyes of the mother much earlier than a clinical examination can be made

Prevention of disability:

Secondary prevention

- Besides the parents and the medical team in the hospitals, or the child health centers, day care nursery staff,
- Teachers at nursery schools and school teachers, school nurse, school medical officer, social workers, educational psychologist...etc. are involved in early diagnoses

Prevention of disability:

Secondary prevention

Strategies on the secondary prevention level can be applied either at the:

- ^{قبل} Prenatal or neonatal level
- Some of the conditions that can be diagnosed during the prenatal and neonatal stages are listed **in table 1**

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Primary
or Secondary?
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Table 1. Tests used in early identification of disabilities or diseases that may lead to disabilities

Stage	Test	Diagnosis
Prenatal	<p>Maternal α-fetoprotein</p> <ul style="list-style-type: none"> - Elevation - Decrease <p>Maternal <u>un-conjugated</u> estral decrease</p> <p>Maternal human chorionic gonadotropine <u>elevation</u></p> <p><u>Ultra-sonography</u></p> <p>DNA analysis of <u>amniotic fluid</u>, <u>chorionic villi</u> or <u>fetal blood</u></p> <p><u>Cytogenetic</u></p>	<p>Neural tube <u>defect</u></p> <p><u>Trisomy 21</u>, <u>trisomy 18</u> (Edwards syndrome)</p> <p><u>Trisomy 21</u>, <u>trisomy 18</u></p> <p><u>Down syndrome</u></p> <p><u>Down syndrome</u> and other <u>physical defects</u></p> <p><u>Several inborn errors of metabolism</u></p> <p><u>Numeric and structural anomalies of the chromosomes</u></p>

Table 1. Tests used in early identification of disabilities or diseases that may lead to disabilities

Stage	Test	Diagnosis
Neonatal	<p><u>Estimation of phenylalanine</u></p> <p><u>Estimation of other amino-acids</u></p> <p><u>Estimation of thyroid hormone level</u></p> <p><u>DNA analysis</u></p>	<p>Phenyl-ketonuria</p> <p>Amino aciduria</p> <p><u>Hypothyroidism</u></p> <ul style="list-style-type: none"> - Several inborn errors of metabolism - Cystic <u>fibrosis</u> - <u>Thalassaemia</u> - Other haemoglobinopathies - Duchenne muscular dystrophy - <u>Hemophilia</u> <u>Factor (8) VIII</u>

Prevention of disability:

Secondary prevention

- **Neonatal screening** : organized examination of all neonates in order to diagnose specific disorders so that they can be treated
- It is an **established preventive approach** and includes both **clinical and biochemical screening** and have been successful in reducing disability
- Examples of the usefulness of such action are shown in table 2

Table 2. Usefulness of early detection and intervention programs

Disorder	Intervention	Benefit
<u>Hypothyroidism</u>	<u>Hormone replacement therapy</u>	Prevention of mental retardation
Phenyl-ketonia	<u>Low phenylalanine diet</u>	Prevention of mental retardation
<u>Congenital heart diseases</u>	<u>Surgical correction</u>	Normal growth and development
<u>Familial growth hormone deficiency</u>	<u>Hormone replacement therapy</u>	Normal growth and development
Familial <u>Hypercholesterolemia</u>	<u>Lowering plasma low density lipoprotein level by drugs and diet restriction</u>	Prevention of heart diseases
<u>Hemophilia A</u>	<u>Factor VIII replacement</u>	Avoidance of hemorrhage

Disorder	Intervention	Benefit
<p>Infectious diseases:</p> <p>-<u>Polio myelitis</u></p> <p>-<u>Meningitis</u></p> <p>-<u>Sickle-cell disease</u></p> <p>Thalasstaemia major</p> <p>Congenital dislocation of the <u>hip</u></p> <p><u>Cleft lip and cleft palate</u></p>	<p><u>Vaccination</u></p> <p><u>Vaccination</u></p> <p><u>Proper care and management</u></p> <p><u>Blood transfusion and iron chelation therapy</u></p> <p><u>Surgical or physical correction</u></p> <p><u>Surgical correction</u></p>	<p>Avoidance of skeletal disability</p> <p>Avoidance of mental disability</p> <p>Normal growth and decrease crisis</p> <p>Normal growth and development</p> <p>Normal movement</p> <p>Normal facial appearance</p>

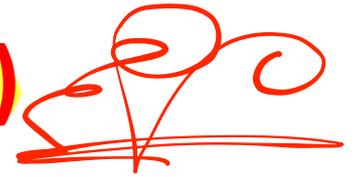
Prevention of disability:

Secondary prevention

- New forms of secondary prevention, such as genetic or surgical manipulation of an affected fetus to eradicate the biochemical or anatomical abnormality are being tried.

- This is true for congenital heart disease (VSD, ASD), cleft lip and cleft palate, congenital dislocation of the hip (CDH) and others

Tertiary Prevention (Rehabilitation)



- **Rehabilitation** is the process aiming at enabling an impaired person to reach an optimal (mental, physical and / or social) functional level, thus providing him with the tools to change his own life
- It includes all the services provided to enable the handicapped to make maximum use of their abilities



Tertiary prevention (rehabilitation)

It includes the following measures:

1. Measures to **compensate** for the limitation or loss of function (e.g. by **technical aid**) (تدابير للتعويض عن الحد من أو فقدان الوظيفة (على سبيل المثال عن طريق المساعدات الفنية)
2. Measures to **facilitate** social adjustment or **readjustment**



3. Through these measures the **highest possible degree** of **"independence"** can be achieved which usually includes engagement in **suitable work**

اعقل وتوكل

Try to Best.

Tertiary prevention (rehabilitation)

Special success of rehabilitation depends on:

- Age
- Type of home
- Belief implicitly in the success (that further progress is possible)



- Personal factors which motivate the patient and family towards overcoming the effects of disability (self-pity-overprotection)