

International classification of disease

مدرس: عصمت مشعوف

هیئت علمی علوم پزشکی وارستان

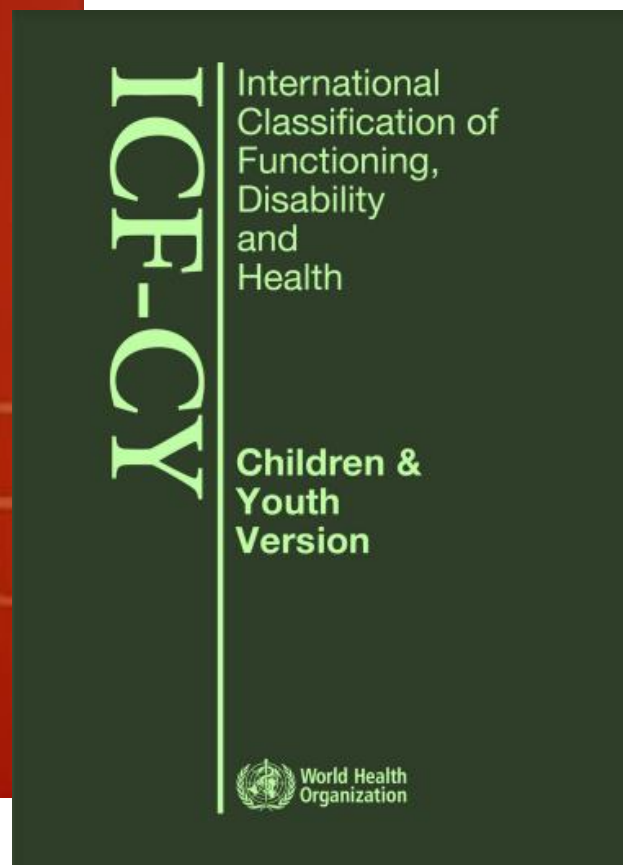
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عَسَىٰ أَنْ تَكْرَهُوا شَيْئًا وَيَجْعَلَ اللَّهُ فِيهِ خَيْرًا كَثِيرًا

بسیار چیزها ناپسند شماست و حال آنکه خدا در آن، خیر بسیار برای شما مقدر

فرموده است

the international classification of functioning, Disability and Health(ICF)



The ICF system provides a comprehensive and unified framework to analyse and to understand the living conditions of people with different types and levels of disabilities in multi-category approach such as body function and structure, activities, participation, environmental factors and personal factors.



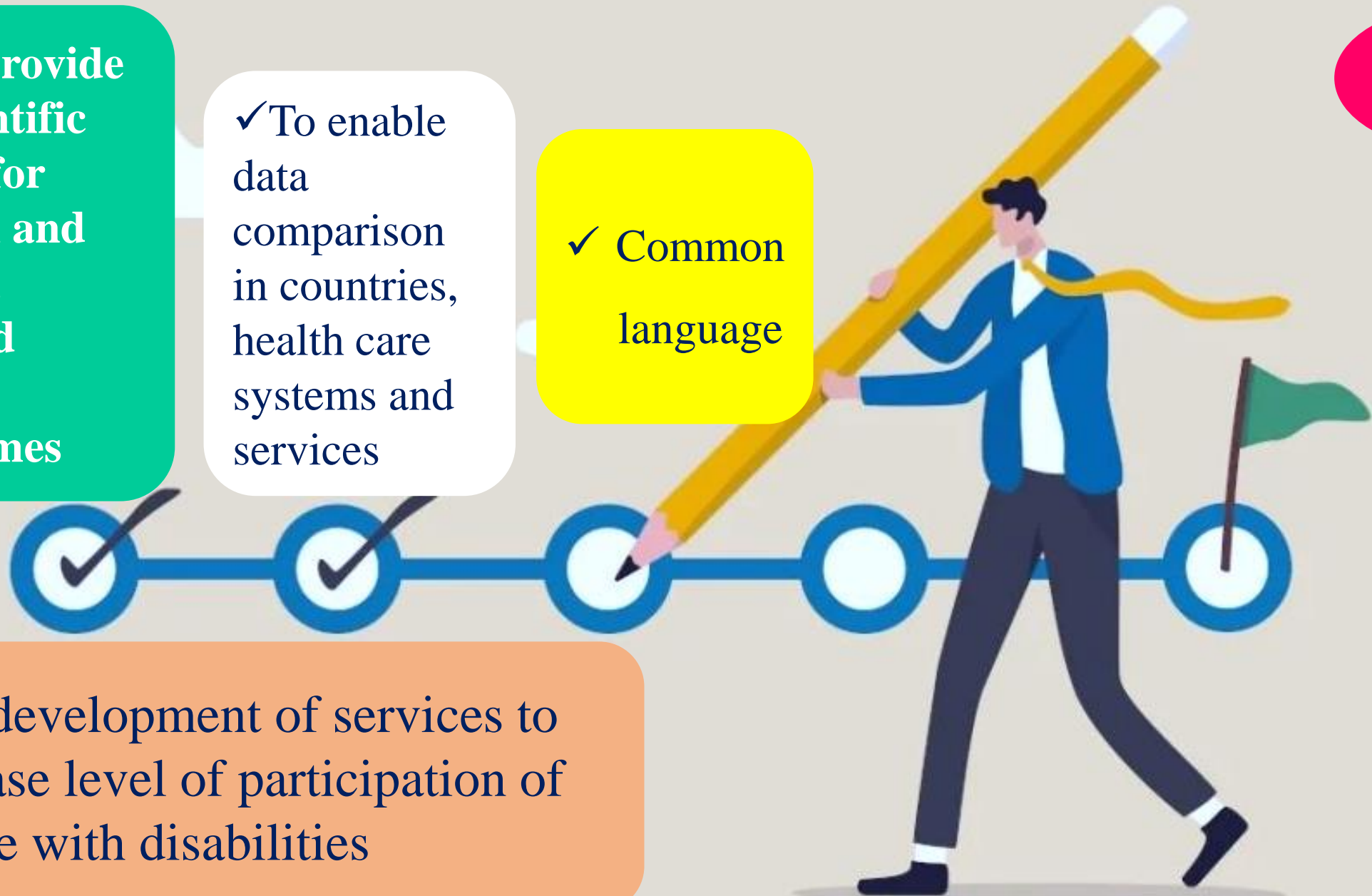
✓ To provide a scientific basis for health and health related states, outcomes

✓ To enable data comparison in countries, health care systems and services

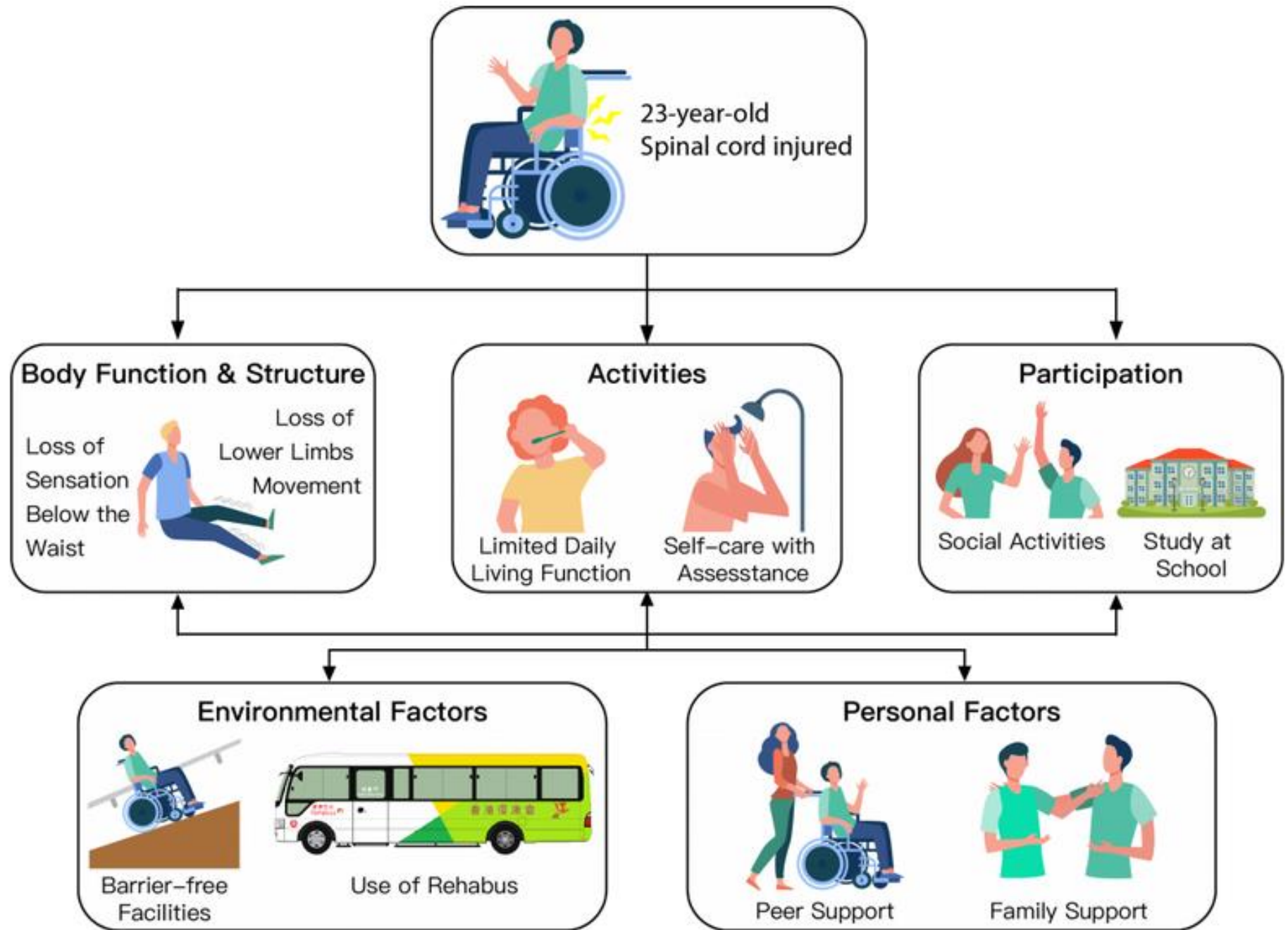
✓ Common language

✓ To development of services to increase level of participation of people with disabilities

goals



ICF system
could
formulate
different
facets of an
adult with
spinal cord
injury



Body Structure: lumbar vertebrae and related nerves were injured

Body Function: loss of sensation below the waist, loss of lower limb movement

Activities: impaired mobility function, self-care activities with assistance such as having a shower

Participation: Studying at school and social activities

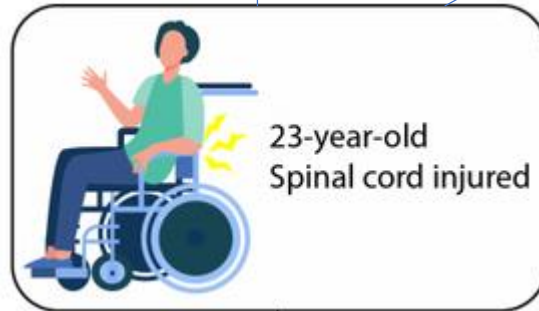
Environmental factors: Barrier-free facilities for traveling, e.g. using wheelchairs and Rehabus Services

Personal factors: family and peer support

need assistance

lose sensory

lose mobility
functions



participate in social
activities

peer support, and the
provision of rebus and
other barrier-free facilities

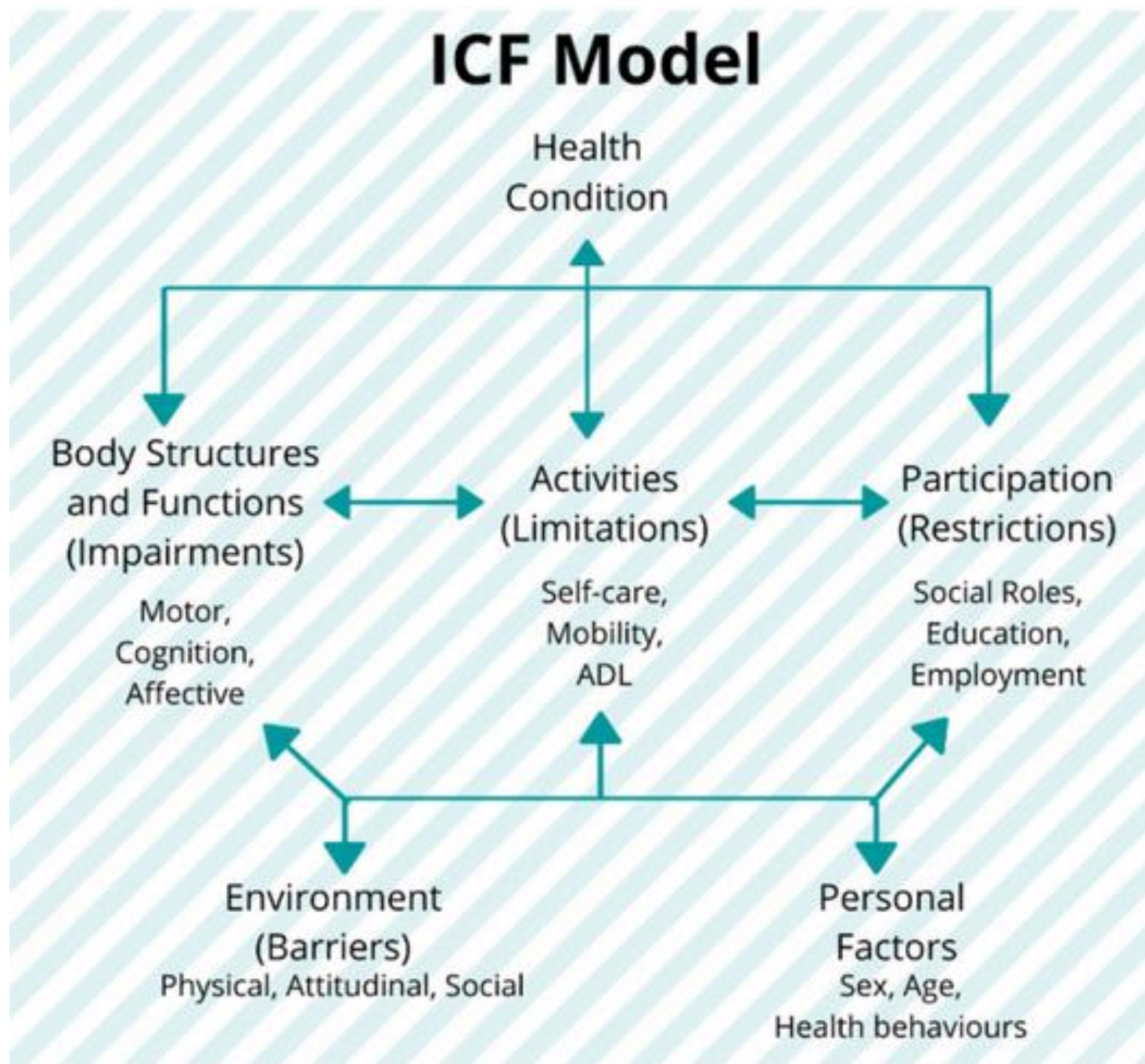
Go to school with the
use of a wheelchair

Disabilities

HIV

accident





The Model

definition

- **Impairment:**

loss or abnormality in body structure or function(include mental function)



definition

- **Limitations:**

difficulties individual may have
in executing activities in terms
of quantity or quality



definition

- **Participation:**

involvement in a life situation.

Being able to play sports with

friends or having a job are



definition

Environmental factors :

make up the physical, social, and attitudinal environment in which people live and conduct their lives

(such as steps or stairs without handrails in the house or a school building with stairs but no elevator.)



definition

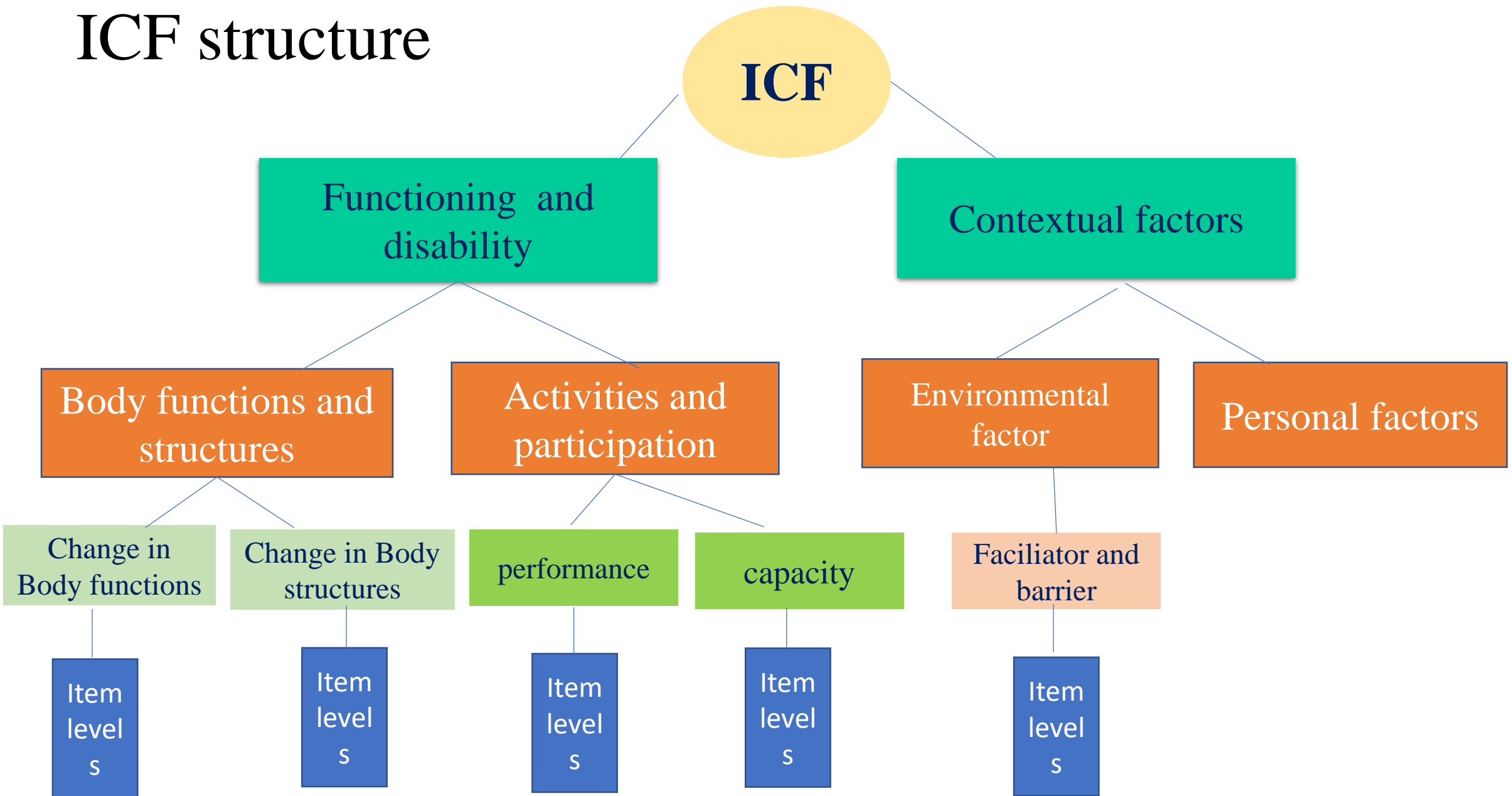
- **Personal factors:**

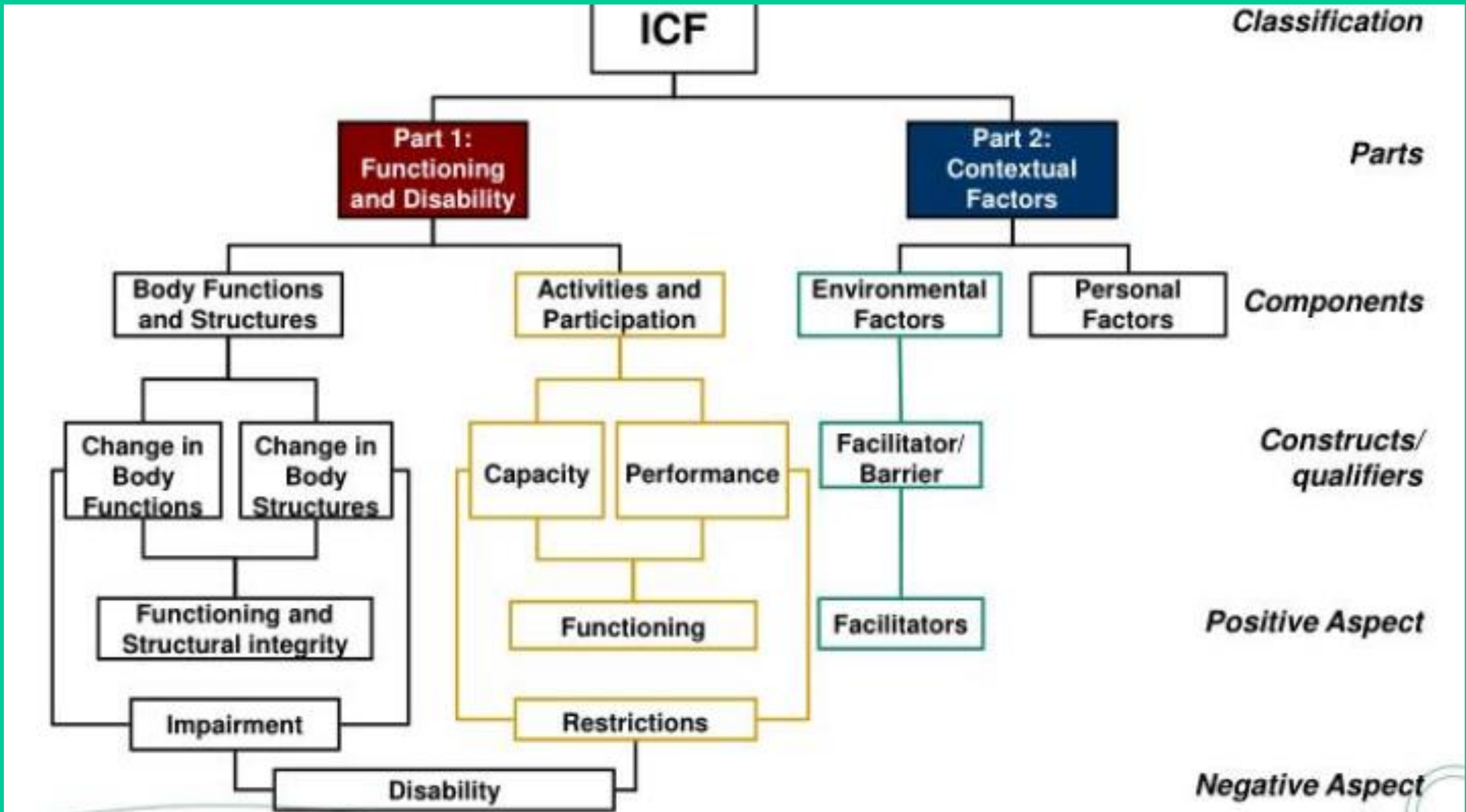
gender, age, coping style, social background, education, profession, past and present experiences, and other factors that influence:

**how disability is experienced
by the person**



ICF structure





ICF component

Body structures:
structural or anatomical
parts of the body

Body functions:
physical functions of
body systems



Fitness

Everyone needs to stay fit and healthy, including me! Help me find ways to keep fit.

**Body Structure and
Function**

ICF component

Activities:

execution of a task or action
by an individual or anatomical
parts of the body

Participation:

persons involvement in a
life situation



Function

*I might do things differently but I CAN do them.
How I do it is not important. Please let me try!*

Activity



Friends

*Having childhood friends is important. Please give
me opportunities to make friends with my peers.*

Participation

ICF component

Environmental factors:
all aspect of external world

personal factors:



ICF codes:

Prefix + numeric code. ICF qualifiers

Body
function

B code
B1-B8

Body
structure

S code
S1-S8

Environmental
factors

E codes
e1-e5

Activities .
participation

D codes
D1-d9



\$73020.4

component

ICF qualifier

chapter

4nd level

2nd level

3nd level

Qualifiers complete an ICF code

۱- عملکردهای بدن

" عملکردهای روانی

عملکردهای حسی و درد

\$ عملکردهای صدا و گفتار

% عملکردهای سیستم های قلبی(عروقی، هماتولوژی،











ایمنی و تنفس

& عملکردهای سیستم گوارشی، متابولیک و غدد درون ریز

'(عملکردهای ادراری)تناسلی و تولید مثل

* (عملکردهای اسکلتی)ماهیچه ای(عصبی و حرکتی

+ (عملکردهای پوست و ساختارهای مربوط به آن

- [-]  ICF
- [-]  b BODY FUNCTIONS
 - [+]  b1 MENTAL FUNCTIONS
 - [+]  b2 SENSORY FUNCTIONS AND PAIN
 - [+]  b3 VOICE AND SPEECH FUNCTIONS
 - [+]  b4 FUNCTIONS OF THE CARDIOVASCULAR, HAEMATOLOGICAL, IMMUNOLOGICAL AND RESPIRATORY SYSTEMS
 - [+]  b5 FUNCTIONS OF THE DIGESTIVE, METABOLIC AND ENDOCRINE SYSTEMS
 - [+]  b6 GENITOURINARY AND REPRODUCTIVE FUNCTIONS
 - [+]  b7 NEUROMUSCULOSKELETAL AND MOVEMENT-RELATED FUNCTIONS
 - [+]  b8 FUNCTIONS OF THE SKIN AND RELATED STRUCTURES

۲- ساختارهای بدن

"(ساختار سیستم عصبی

#) چشم، گوش و ساختارهای مربوط به آن

\$(ساختارهای درگیر در صدا و گفتار

%(ساختارهای سیستم قلبی)عروقی، هماتولوژی، ایمنی و










تنفس

&(ساختارهای سیستم گوارشی، متابولیک و غدد درون ریز

'(ساختارهای ادراری)تناسلی و تولید مثل

*(ساختارهای مربوط به حرکت

+(پوست و ساختارهای مربوط به آن

-  s BODY STRUCTURES
 - +  s1 STRUCTURES OF THE NERVOUS SYSTEM
 - +  s2 THE EYE, EAR AND RELATED STRUCTURES
 - +  s3 STRUCTURES INVOLVED IN VOICE AND SPEECH
 - +  s4 STRUCTURES OF THE CARDIOVASCULAR, IMMUNOLOGICAL AND RESPIRATORY SYSTEMS
 - +  s5 STRUCTURES RELATED TO THE DIGESTIVE, METABOLIC AND ENDOCRINE SYSTEMS
 - +  s6 STRUCTURES RELATED TO THE GENITOURINARY AND REPRODUCTIVE SYSTEMS
 - +  s7 STRUCTURES RELATED TO MOVEMENT
 - +  s8 SKIN AND RELATED STRUCTURES

- d ACTIVITIES AND PARTICIPATION
 - + d1 LEARNING AND APPLYING KNOWLEDGE
 - + d2 GENERAL TASKS AND DEMANDS
 - + d3 COMMUNICATION
 - + d4 MOBILITY
 - + d5 SELF-CARE
 - + d6 DOMESTIC LIFE
 - + d7 INTERPERSONAL INTERACTIONS AND RELATIONSHIPS
 - + d8 MAJOR LIFE AREAS
 - + d9 COMMUNITY, SOCIAL AND CIVIC LIFE



"یادگیری و بکارگیری دانش

#(وظایف و خواسته های عمومی

\$(ارتباطات

%(تحرک

&(مراقبت از خود

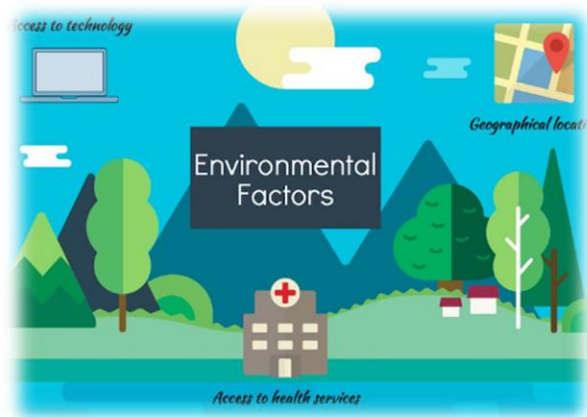
('زندگی خانوادگی

*(روابط و تعاملات بین افراد

+(مقاطع اصلی زندگی
















،(زندگی گروهی، اجتماعی و مدنی

- e ENVIRONMENTAL FACTORS
 - + e1 PRODUCTS AND TECHNOLOGY
 - + e2 NATURAL ENVIRONMENT AND HUMAN-MADE CHANGES TO ENVIRONMENT
 - + e3 SUPPORT AND RELATIONSHIPS
 - + e4 ATTITUDES
 - + e5 SERVICES, SYSTEMS AND POLICIES



"فراورده ها و فناوری
محیط طبیعی و تغذرات محیط
توسط انسان
\$ حمایت و وابستگی
% نگرشها
& خدمات، سیستمها و خط مشی

night blindness: light sensitivity: b21020

- [-]  ICF
 - [-]  b BODY FUNCTIONS
 - +  b1 MENTAL FUNCTIONS
 - [-]  b2 **SENSORY FUNCTIONS AND PAIN**
 - [-]  b210-b229 Seeing and related functions (b210-b229)
 - [-]  b210 Seeing functions
 - +  b2100 Visual acuity functions
 -  b2101 Visual field functions
 - [-]  **b2102 Quality of vision**
 -  b21020 Light sensitivity
 -  b21021 Colour vision
 -  b21022 Contrast sensitivity
 -  b21023 Visual picture quality
 -  b21028 Quality of vision, other specified
 -  b21029 Quality of vision, unspecified

b21020 Light sensitivity

Seeing functions of sensing a minimum amount of light (light minimum), and the minimum difference in intensity (light difference).

Inclusions: functions of dark adaptation; impairments such as night blindness (hyposensitivity to light) and photophobia (hypersensitivity to light)

b21022 Contrast sensitivity

Seeing functions of separating figure from ground, involving the minimum amount of luminance required.

Example of ICF codes

- **Functions:** b735: muscle tone
- **Structure:** s750: structure of lower extremity
- **Activities and participations:** d450: walking
- **Environmental factors:** e120: products and technology for personal indoor and outdoor mobility and transportation

qualifiers

impairment

	توصیفگر	
xxx.0	بدون مشکل	0-40/0
xxx.1	مشکل خفیف	5-240/0
xxx.2	مشکل متوسط	25-49 0/0
xxx.3	مشکل شدید	50-950/0
xxx.4	مشکل کامل	96-100 0/0
xxx.8	not specified (نامشخص
xxx.9	not applicable (کاربرد ندارد

Qualifiers- environmental factors

barrier

XXX.0	No barrier	0-4 0/0
XXX.1	Mild barrier(slow..	5-24 0/0
XXX.2	Moderate problem (medium..	25-49 0/0
XXX.3	Sever barrier (high,...	50- 95 0/0
XXX.4	Complete barrier (total...	96-100 0/0

Qualifiers- environmental factors

facilitator

XXX+ 0	No facilitator	0-4
XXX+1	Mild facilitator (low	4-24
XXX+2	Moderate facilitator	25-49
XXX+3	Severe facilitator	50-95
XXX+4	compelet	96-100

- **Moderate impairment of one side of body**

b7302.2

- **Mild impairment maintaining one,s health**

d5702.1

- **No problem moving around within buildings other than home**

d4601.0

توصیفگر	شدت آسیب
B7302.1	آسیب خفیف در قدرت عضله یک طرف بدن
B7302.2	آسیب متوسط در قدرت عضله یک طرف بدن
B7302.3	آسیب شدید در قدرت عضله یک طرف بدن
B7302.4	آسیب کامل در قدرت عضله یک طرف بدن
B7302.0	بدون آسیب در قدرت عضله یک طرف بدن
B7302.8	آسیب قدرت عضله سمتی از بدن، نامشخص
.9	بکارگیری کد و صفت اختصاصی نامناسب

Activities and participation : two qualifier

First qualifier : performance

Extent of participation restriction

- 0: No difficulty
- 1: mild difficulty
- 2: moderate difficulty
- 3: severe difficulty
- 4: complete difficulty
- 8: not specified
- 9: not applicable

First qualifier : capacity

Extent of activity limitation

- 0: No difficulty
- 1: mild difficulty
- 2: moderate difficulty
- 3: severe difficulty
- 4: complete difficulty
- 8: not specified
- 9: not applicable

Impairment of body structures

<i>First Qualifier: Extent of impairment</i>
0 No impairment
1 Mild impairment
2 Moderate impairment
3 Severe impairment
4 Complete impairment
8 Not specified
9 Not applicable

<i>Second Qualifier: Nature of the change</i>
0 No change in structure
1 Total absence
2 Partial absence
3 Additional part
4 Aberrant dimensions
5 Discontinuity
6 Deviating position
7 Qualitative changes in structure, including accumulation of fluid
8 Not specified
9 Not applicable

<i>Third Qualifier (suggested): Location</i>
0 More than one region
1 right
2 left
3 both sides
4 front
5 back
6 proximal
7 distal

Environmental factors

- Qualifier : barriers or facilitator

0 No barriers
1 Mild barriers
2 Moderate barriers
3 Severe barriers
4 Complete barriers

0 No facilitator
+1 Mild facilitator
+2 Moderate facilitator
+3 Substantial facilitator
+4 Complete facilitator

xxx+0	تسهیل کننده وجود ندارد
XXX +1	تسهیل کننده جزئی
XXX +2	تسهیل کننده متوسط
XXX +3	تسهیل کننده جایگزین
XXX +4	تسهیل کننده کامل
XXX +8	تسهیل کننده نامشخص
XXX +9	کاربرد ندارد

xxx)0	مانعی وجود ندارد
XXX)1	مانع جزئی
XXX)2	مانع متوسط
XXX +3	مانع شدید
XXX +4	مانع کامل
XXX)8	مانع نامشخص
XXX)9	کاربرد ندارد