# Disability and the Evaluation of Public Health Interventions

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#### Background:

- DALYs a frequent indicator for assessment of the relative effects of public-health interventions explicitly incorporate disability.
- DALYs are calculated by adding together years lost from premature mortality and the loss experienced by living a certain number of years with a disability
- The overriding goal was to create a measure that could help enhance the allocation of resources battling poor health.

#### **Advantages:**

- Incorporates the effect of disabling conditions into the evaluation of public health
- Decouples epidemiological assessment from advocacy
- Creates a standardized measure that can be used in benefit-cost analyses

#### **Disadvantages:**

- Based on a medical model which:
  - Is at odds with the social model of disability that is incorporated into the WHO's International Classification of Functioning, Disability, and Health
  - Ignores the impact of environmental factors, and thus the difference of how people experience disability in different cultures

#### **Disadvantages:**

- Do not register improvements in people's health, lives, and functional status from interventions – such as rehabilitation services – that do not prevent or cure underlying medical conditions
- Based on weights which do not adequately incorporate the experience of people with disabilities
- Implicitly devalue the lives of people with disabilities.



22.11.2007

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### • • The questionnaire

#### Part 1a: Household survey (individuals)

- composition of household
- education
- economic activity
- reproductive health

#### Part 1b: Household survey (households)

- income, expenses, ownership of land and assets
- housing and physical environment
- transport and communication

#### Part 2: Detailed disability survey

activities and participation matrix

#### Number of households and individuals in the study Number of:

Source:	Households	Individuals	Persons with disabilities
Households having a person with disability	2885	15210	2898
Households without a person with disability (Controls)	2866	12979	192*
Total 8	5751	28189	<b>3090</b> 22.11.2007

### 9 Domains & 44 Activities

- 1. Sensory experiences: *watching, listening*
- 2. Basic learning & applying knowledge: *reading, writing*
- 3. Communication: *producing and receiving messages*
- 4. Mobility: walking, moving around
- 5. Self-care: *washing, dressing*
- 6. Domestic life: *shopping, preparing meals*
- 7. Interpersonal relations: *making friends, interacting with strangers*
- 8. Major life areas: going to school, getting a job
- 9. Community, social and civic life: *clubs, religious, politics*

# Activity Limitation (a measure of *capacity*)

### How DIFFICULT it is for you to perform this activity WITHOUT ASSISTANCE?

- 0 no difficulty
- 1 slight difficulty
- 2 moderate difficulty
- 3 severe difficulty
- 4 unable to carry out the activity

## Participation Restriction (a measure of *performance*)

#### Do you have any PROBLEMS performing this activity in your CURRENT ENVIRONMENT?

- 0 no problem
- 1 mild problem
- 2 moderate problem
- 3 severe problem
- 4 complete problem (unable to perform)





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### Opportunities

- Disability is no longer be defined according to one's physical impairment (the "What's wrong with you?" approach)
- Equality, Accessibility, Inclusion and Human Rights become key elements to the definition of *disability* (the "What do you need to become a fully active participant in your society?" approach)

### Opportunities

- *Disability* is thought of as a process rather than as a state or condition.
- Approach to dealing with *disability* shifts from fixing or repairing a deficit (physical impairment) to the removal of barriers (including attitudinal), thus creating better access and improving social participation.
- Domain of *disability* also shifts away from the medical realm to the socio-environmental.

### Opportunities

- Inclusion of people with disabilities becomes paramount to the approach.
- Thus, people with disabilities are no longer thought of as patients, beneficiaries, or research subjects - but become empowered peers, research participants and decision makers.
- The impact of interventions which improve people's functioning but do not change their "diagnosis" must be taken into account.



- In Research:
  - Change our way of thinking of *disability*:
    - from a dichotomy: disabled versus not disabled
    - to a continuum: *degree* of activity limitation or *degree* of participation restriction
  - Develop indicators that reflect this continuum
- In Society:
  - Normalising or demystifying disability

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