Economic burden of diabetes

Measurement approaches

- Willingness-to-pay approach
- Cost-of-illness approach (debility, morbidity & mortality)
- Macroeconomic / Production function approach

**Direct cost**
- Household:
  - Prevention costs, e.g. exercise, diet
  - Treatment costs, e.g. transport, user fees
  - Other health care access costs (e.g. bribes)

**Indirect cost**
- Organization & operation of health system:
  - Prevention, e.g. health education
  - Medicines (insulin, oral drugs)
  - Hotel costs (HRH time, utilities, food, materials, equipment, building space)
  - Diagnostic costs (HBA1c test, lipid profile, proteinuria test, blood sugar test, electrocardiogram)
  - Other costs

**Intangible cost:**
- Physical pain
- Psychological pain

**Short-term cost:**
Value of productive time lost due to diabetes

**Indirect cost:**
- Premature mortality
- Permanent disability
- Temporary disability
- Time of family caregivers

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