

### TOPIC 4 - The Production of Heath In Ireland Cheat Sheet

by Joh via cheatography.com/168039/cs/35121/

### I. THE PRODUCTION FUNCTION

ECONOMIC THEORY	ROLE OF HEALTH IN THE ECONOMY
Input combined to produce a level of output with mediating factors	Definition: Health is an input + output of productive process
Different combin- aisons: Substitute input to produce the same level of output	Described how efficient particular process are
Ex: Labor, capital > good, services, activities	Ex: Environment, lifetime, education, wealth> Produc- tivity, Labor Supply

### **III. HEALTH AS AN OUTPUT**

Health Output Definition = health outcomes (life expectancy, healthy days, QUALY)

- **1.1 Total ProducT**: Health input expended in the production process
- **1.2 Increasing Total Product**: Health increases as more and more Health Inputs are added to the production process
- **2.1 Marginal Product**: additional (health input) = output generated
- 2.2 Diminishing Marginal Product: More health input added = The rate of increase in Health declines

### IV.B THE MODERN ROLE OF HEALTH CARE

### 2. MARGINAL PRODUCT OF HEALTH CARE INVESTMENT

Population subgroups? 1 (Under 6 years) and 2 (Particular disease area)
Other health outcome measures? Quality
Adjusted Life Expectancy QUALY

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### II. HEALTH AS AN INPUT

Health Input Definition= Health care & Other Input

- Social Objectives: macroeconomic
   Objective is Economic Growth
- 2. Economic Theory: Neoclassical Theory
  Economic Growth Depends on = Stock of
  capital, Stock of Labor, Productivity
- 3. Empirical Evidences: Positive relationship with Health and Economic Growth (health measured as life expectancy which is sizeable predictor of subsequent economic growth)

Grossman 1972 "If health is a driver for human capital, then health is a driver for economic growth".

### IV.A THE ROLE OF HEALTH CARE

### A THE HISTORICAL ROLE OF HEALTH CARE

**1750-1850**: Improve Nutrition (industrial revolution)

**1850-1930**: Improve Public Health (food safety, clean water)

**1939's Onwards**: Health Care (vaccination, antibiotics, hight technologies medicine)

What caused the improvements in Population Health?

- New ideas personal health and public health (better better nutrition, better housing)
- New ideas about the germ theory ( infectious diseases)
- New information on the effects of smoking (health behaviours and health outcome)
- New major, life-saving, scientific innovations in medical procedures and new pharmaceuticals (Extending life Expectancy)

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### V. IMPLICATIONS FOR POLICY MAKERS

Increase economic growth = Policy makers should consider health input investments

Improve Health = Policy makers should consider the marginal product of alternative health input investments including health care.

Compare evidence on all relevant comparators = Health care VS Health Care / Health care VS Non-Health Care

The historical emphasis of policy makers on health care as the sole determinant of Health may be at odds with the evidence.

### Exemple of inputs

- Productivity: produce more output/ hour, physical and capable capability, more efficient use of technologies
- Labor Supply: More Healthy days available (work, Leisure)
- Education: Becker's Human Capital
   Theory -> more educated = More productive, produce more Output
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- Capital Formation: Health impact how individu distribute income: saving, consumption and Investment.

Healthier individu = higher level of income, higher savings ratio and higher likelihood of investment.

Higher levels of savings and/or investment improve economy's physical, intellectual and/or financial capital stock -> Potentially leading to increased returns at individual and macro economic levels.

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## IV.B THE MODERN ROLE OF HEALTH CARE

### 1. HEALTH CARE ELASTICITY

### Exemple:

\*Elasticity of Health Care Expenditure = 0.10

Life expectancy = 80 years

The Government increases Health Care Expenditure by 10% (or 0.10) per year

What improvement in health can we expect?

Expectancy =  $0.10 \times 0.10 \times 80 = 0.80$  year or 292 days (365x0.80) over the average lifespan



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