The World Health Report 2002

Reducing Risks, Promoting Healthy Life

Selected charts from
Statistical Annexes
WHR 2002

Embargoed until 12 noon Oct 30 2002

Source: WHR 2002
Contents of the Report

- Updates estimates of deaths and disease burden
- Contains attributable and avoidable burden estimates for 20 selected risk factors
- Contains Cost Effective (CE) estimates for 170 interventions for these risk factors
- Estimates are available for 14 regions
- Work was carried out by leading experts within and outside WHO over past 2-3 years
Definitions used

- Blood pressure (SBP >= 115 mmHg)
- Cholesterol (3.8 mmol/l; 147 mg/dl)
- High body Mass Index (>= 21 kg/ht²)
- Low fruit and vegetable intake (600 gms per day)
- Physical Inactivity (<= 2.5 hours per week; 400 kJ/week)
- Tobacco Use (none)
- Alcohol Use (none)
What is a risk?

• A probability of an adverse outcome or a factor that raises this probability

• Risk factors selected were based on:
  – potential global impact
  – high likelihood of causality
  – potential modifiability
  – neither too specific or too broad
  – availability of data on risk factor distributions and risk factor-disease relationships
Description of 3 epidemiological sub regions

• Developed countries:
  – Eg Germany, France, UK, Italy, USA, Japan

• Developing countries - low mortality:
  – Eg Brazil, Mexico, Iran, Indonesia, Thailand, China, Viet Nam, Philippines

• Developing – high mortality:
  – Eg Nigeria, Ethiopia, D R Congo, Pakistan, Egypt, India, Bangladesh
World

Deaths in 2000 attributable to selected leading risk factors

- Blood pressure
- Tobacco
- Cholesterol
- Underweight
- Unsafe sex
- Fruit and vegetable intake
- High Body Mass Index
- Physical inactivity
- Alcohol
- Unsafe water, sanitation, and hygiene
- Indoor smoke from solid fuels
- Iron deficiency
- Urban air pollution
- Zinc deficiency
- Vitamin A deficiency
- Unsafe health care injections
- Occupational risk factors for injury

Number of deaths (000s)

Source: WHR 2002
World

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

Source: WHR 2002
World
Deaths in 2000 attributable to selected leading risk factors

- Blood pressure
- Tobacco
- Cholesterol
- Underweight
- Unsafe sex
- Fruit and vegetable intake
- High Body Mass Index
- Physical inactivity
- Alcohol
- Unsafe water, sanitation, and hygiene
- Indoor smoke from solid fuels
- Iron deficiency
- Urban air pollution
- Zinc deficiency
- Vitamin A deficiency
- Unsafe health care injections

Number of deaths (000s)

Source: WHR 2002
World

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

- Underweight
- Unsafe sex
- Blood pressure
- Tobacco
- Alcohol
- Unsafe water, sanitation and hygiene
- Cholesterol
- Indoor smoke from solid fuels
- Iron deficiency
- High Body Mass Index
- Zinc deficiency
- Low fruit and vegetable intake
- Vitamin A deficiency
- Physical inactivity
- Risk factors for injury
- Lead exposure
- Illicit drugs
- Unsafe health care injections
- Childhood sexual abuse
- Urban air pollution

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
World
Deaths in 2000 attributable to
Undernutrition and Diet-related Risks and Physical Inactivity

Source: WHR 2002
World

Disease Burden (DALYs) in 2000 attributable to Undernutrition and Diet-related Risks and Physical Inactivity

Underweight  
Blood pressure  
Cholesterol  
Iron deficiency  
High Body Mass Index  
Zinc deficiency  
Fruit and vegetable intake  
Vitamin A deficiency  
Physical inactivity

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
World
Deaths in 2000 attributable to Addictive Substances related Risks

Tobacco
- High Mortality Developing Countries
- Low Mortality Developing Countries
- Developed Countries

Alcohol

Illicit drugs

Number of deaths (000s)

Source: WHR 2002
World
Disease burden (DALYs) in 2000 attributable to Addictive Substances related Risks

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
AFRICA
Deaths in 2000 attributable to selected leading risk factors

- Unsafe sex
- Underweight
- Unsafe water, sanitation, and hygiene
- Vitamin A deficiency
- Blood pressure
- Indoor smoke from solid fuels
- Zinc deficiency
- Iron deficiency
- Alcohol
- Cholesterol
- Tobacco
- Fruit and vegetable intake
- Physical inactivity
- High Body Mass Index
- Unsafe health care injections
- Global climate change

Number of deaths (000s)

Source: WHR 2002
AFRICA

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

Source: WHR 2002
Deaths in 2000 attributable to selected leading risk factors

- Tobacco
- Blood pressure
- High Body Mass Index
- Cholesterol
- Fruit and vegetable intake
- Alcohol
- Physical inactivity
- Unsafe sex
- Urban air pollution
- Unsafe water, sanitation, and hygiene
- Underweight
- Iron deficiency
- Illicit drugs

Source: WHR 2002
AMERICAS

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

- Alcohol
- Tobacco
- High Body Mass Index
- Blood pressure
- Cholesterol
- Unsafe sex
- Fruit and vegetable intake
- Physical inactivity
- Illicit drugs
- Unsafe water, sanitation, and hygiene
- Lead exposure
- Underweight
- Iron deficiency
- Occupational risk factors for injury
- Indoor smoke from solid fuels
- Childhood sexual abuse
- Lack of contraception

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002

World Health Organization
EASTERN MEDITERRANEAN
Deaths in 2000 attributable to selected leading risk factors

- Underweight
- Blood pressure
- Cholesterol
- Unsafe water, sanitation, and hygiene
- High Body Mass Index
- Tobacco
- Fruit and vegetable intake
- Physical inactivity
- Indoor smoke from solid fuels
- Zinc deficiency
- Vitamin A deficiency
- Iron deficiency
- Unsafe sex
- Urban air pollution
- Unsafe health care injections

Source: WHR 2002
EASTERN MEDITERRANEAN

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

- Underweight
- Unsafe water, sanitation, and hygiene
- Blood pressure
- Iron deficiency
- Indoor smoke from solid fuels
- Zinc deficiency
- Cholesterol
- Tobacco
- Vitamin A deficiency
- High Body Mass Index
- Unsafe sex
- Fruit and vegetable intake
- Occupational risk factors for injury
- Lead exposure
- Physical inactivity
- Lack of contraception
- Illicit drugs

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
EUROPE
Deaths in 2000 attributable to selected leading risk factors

- Blood pressure
- Cholesterol
- Tobacco
- High Body Mass Index
- Fruit and vegetable intake
- Physical inactivity
- Alcohol
- Urban air pollution
- Lead exposure
- Occupational carcinogens
- Illicit drugs
- Unsafe sex
- Occupational particulates
- Occupational risk factors for injury

Number of deaths (000s)
EUROPE

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

- Blood pressure
- Tobacco
- Alcohol
- Cholesterol
- High Body Mass Index
- Fruit and vegetable intake
- Physical inactivity
- Illicit drugs
- Lead exposure
- Unsafe sex
- Iron deficiency
- Occupational risk factors for injury
- Urban air pollution
- Childhood sexual abuse
- Underweight
- Unsafe water, sanitation, and hygiene
- Indoor smoke from solid fuels

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
SOUTH-EAST ASIA
Deaths in 2000 attributable to selected leading risk factors

- Blood pressure
- Underweight
- Tobacco
- Cholesterol
- Fruit and vegetable intake
- Unsafe water, sanitation, and hygiene
- Indoor smoke from solid fuels
- Physical inactivity
- Unsafe sex
- Iron deficiency
- Zinc deficiency
- High Body Mass Index
- Alcohol
- Vitamin A deficiency
- Unsafe health care injections

Number of deaths (000s)

Source: WHR 2002
SOUTH-EAST ASIA

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

Source: WHR 2002
WESTERN PACIFIC
Deaths in 2000 attributable to selected leading risk factors

- Blood pressure
- Tobacco
- Cholesterol
- Fruit and vegetable intake
- Alcohol
- Indoor smoke from solid fuels
- High Body Mass Index
- Urban air pollution
- Physical inactivity
- Unsafe health care injections
- Underweight
- Occupational particulates
- Occupational risk factors for injury
- Unsafe water, sanitation, and hygiene
- Iron deficiency
- Unsafe sex

Number of deaths (000s)

Source: WHR 2002
WESTERN PACIFIC

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

Source: WHR 2002

World Health Organization
WHO Regions
Deaths in 2000 attributable to selected leading risk factors

- Blood pressure
- Cholesterol
- Fruit and vegetable intake
- High Body Mass Index
- Physical inactivity

Source: WHR 2002
WHO Regions

Disease burden (DALYs) in 2000 attributable to selected leading risk factors

- Blood pressure
- Cholesterol
- High Body Mass Index
- Fruit and vegetable intake
- Physical inactivity

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
WHO Regions
Deaths in 2000 attributable to selected leading risk factors

Number of deaths (000s)

- Tobacco
- Alcohol
- Illicit drugs

Source: WHR 2002
WHO Regions
Disease burden (DALYs) in 2000 attributable to selected leading risk factors

- Tobacco
- Alcohol
- Illicit drugs

Number of Disability-Adjusted Life Years (000s)

Source: WHR 2002
Deaths in 2000 attributable to selected leading risk factors, by sex

- Blood pressure
- Tobacco
- Cholesterol
- Underweight
- Unsafe sex
- Fruit and vegetable intake
- High Body Mass Index
- Physical inactivity
- Alcohol
- Unsafe water, sanitation, and hygiene
- Indoor smoke from solid fuels
- Iron deficiency
- Urban air pollution
- Zinc deficiency
- Vitamin A deficiency

Number of deaths (000s)

Source: WHR 2002
World

Deaths in 2000 attributable to selected leading risk factors, by sex

- Blood pressure
- Tobacco
- Cholesterol
- Fruit and vegetable intake
- High Body Mass Index
- Physical inactivity
- Alcohol
- Illicit drugs

Number of deaths (000s)

Source: WHR 2002