

GARD

Global Alliance against Chronic Respiratory Diseases

WHO

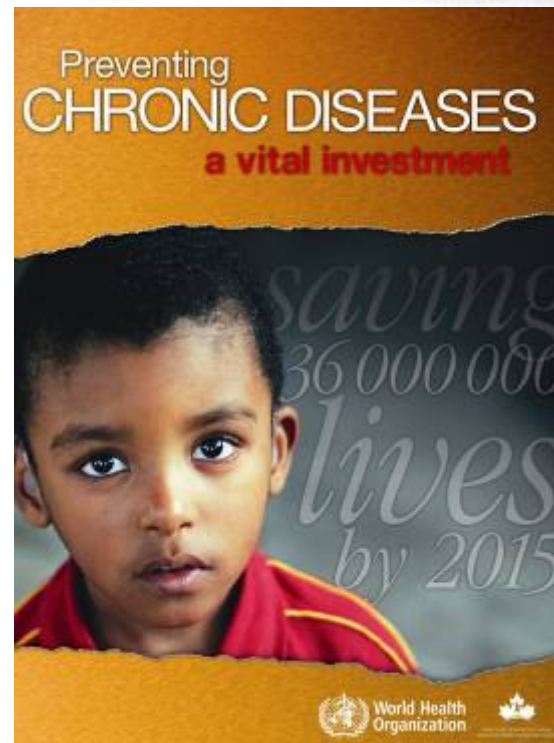
J Bousquet, R Dahl, N Khaltaev, HJ Bekedam

Preventing **CHRONIC DISEASES** a vital investment

www.who.int/chp



**World Health
Organization**



GARD Launch Press Conference

N Zhong (China): Chronic respiratory diseases (CRD) are a major burden in China

S Hurd (USA): The burden of CRD

N Khaltayev (WHO): From the fragmented CRD programs to GARD

J Bousquet (France): The GARD action plan

M Boland (Ireland): Health promotion and CRD prevention

J Walsh (USA): The patient's expectations

Suzanne S. Hurd - USA

The burden of CRD

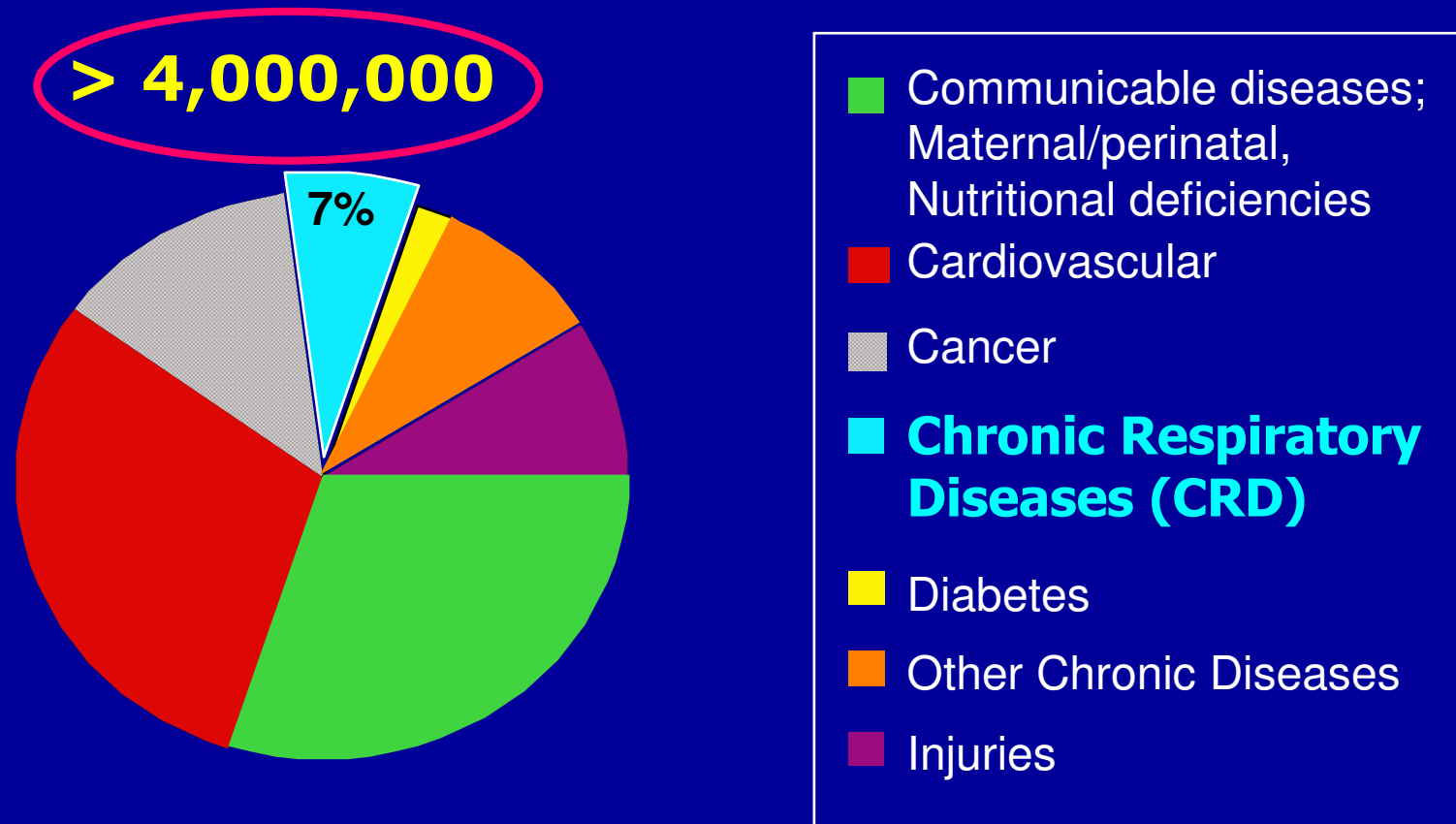
Chronic Respiratory Diseases: An Increasing Global Public Health Problem

- The World Health Organization estimates that hundreds of million people suffer from chronic respiratory diseases worldwide
- Prevalence and severity are increasing globally
- Cause substantial socioeconomic burden to individuals and societies
- In all countries, chronic respiratory diseases are:
 - Under recognized
 - Under diagnosed
 - Under treated

Chronic Respiratory Diseases (CRD)

- Asthma
- Allergic rhinitis
- Chronic obstructive pulmonary disease (COPD)
- Secondary pulmonary hypertension
- Occupational chronic respiratory diseases
- Chronic rhinosinusitis
- Post-infectious chronic respiratory diseases
- Lung cancer; neoplasms of the respiratory organs
- Pulmonary embolism
- Cor pulmonale
- Sleep apnea syndrome
- Lung fibrosis

Global Distribution – Chronic Disease Mortality: All ages, 2005



Increasing Burden of Diseases and Injuries: Change in Rank Order of DALYs*

1999

1. Acute lower respiratory infections
2. HIV/AIDS
3. Perinatal conditions
4. Diarrhoeal diseases
5. Unipolar major depression
6. Ischemic heart disease
7. Cerebrovascular disease
8. Malaria
9. Road traffic injuries
10. COPD
11. Congenital abnormalities
12. Tuberculosis

2020

1. Ischemic heart disease
2. Unipolar major depression
3. Road traffic injuries
4. Cerebrovascular disease
5. COPD
6. Acute lower respiratory infections
7. Tuberculosis
8. War
9. Diarrhoeal diseases
10. HIV
-
15. Trachea, bronchus, lung cancers

*DALY = Disability-adjusted life year

Source: WHO Evidence, Information and Policy, 2000

Chronic Respiratory Diseases (CRD)

Global Prevalence

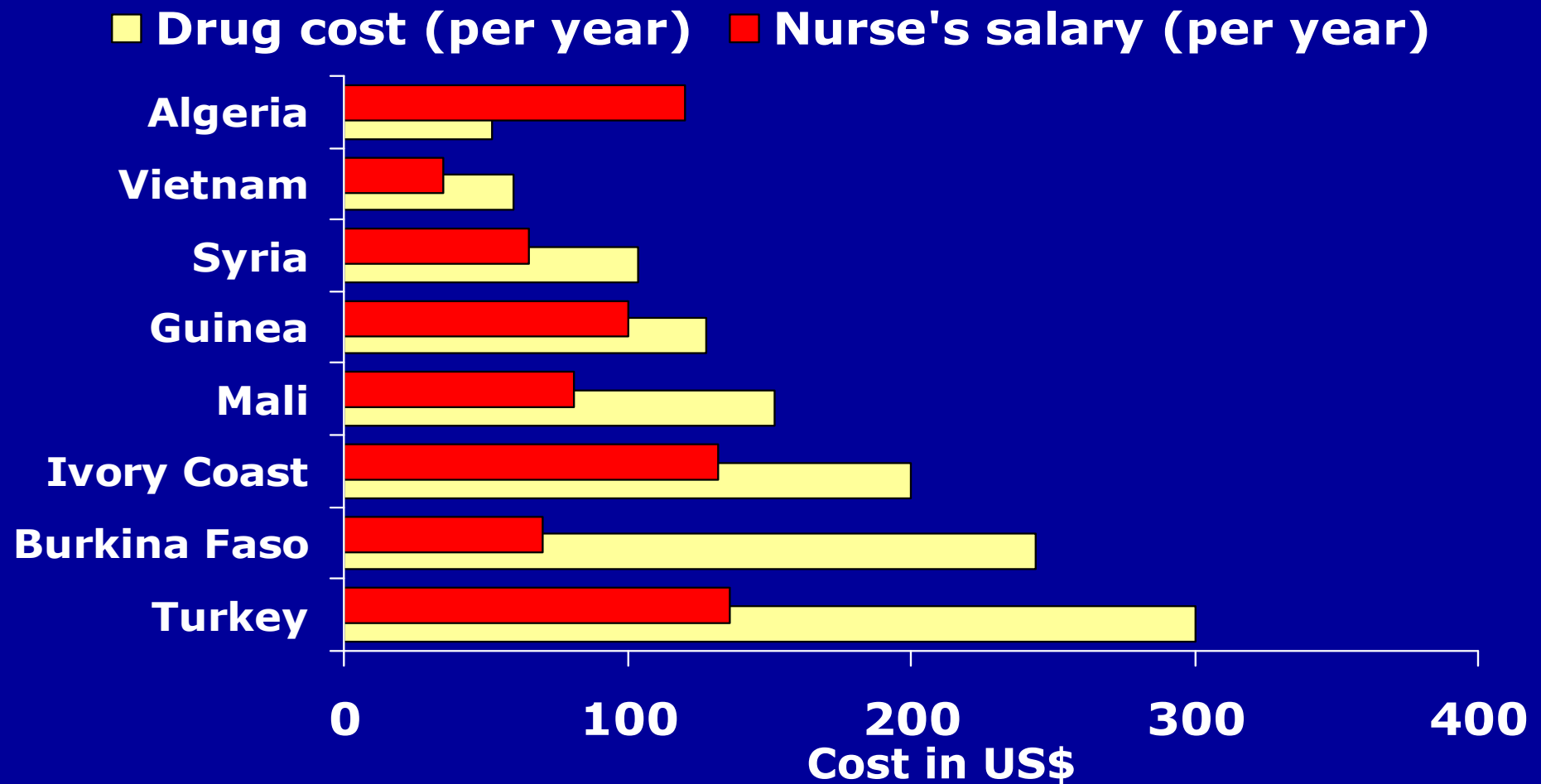
Asthma	> 300 million
Allergic rhinitis	> 400 million
Chronic obstructive pulmonary disease	> 80 million moderate to severe COPD; many millions with mild COPD

Burden of Asthma

- Asthma is one of the most common chronic diseases in the world
- Prevalence ranges from 1% to 18%
- An estimated 250,000 deaths annually, many of them preventable
- Direct costs (hospital, medications) account for 1-3% of total medical expenses in most countries

Affordability of Asthma Drugs

Moderate persistent asthma, 1998

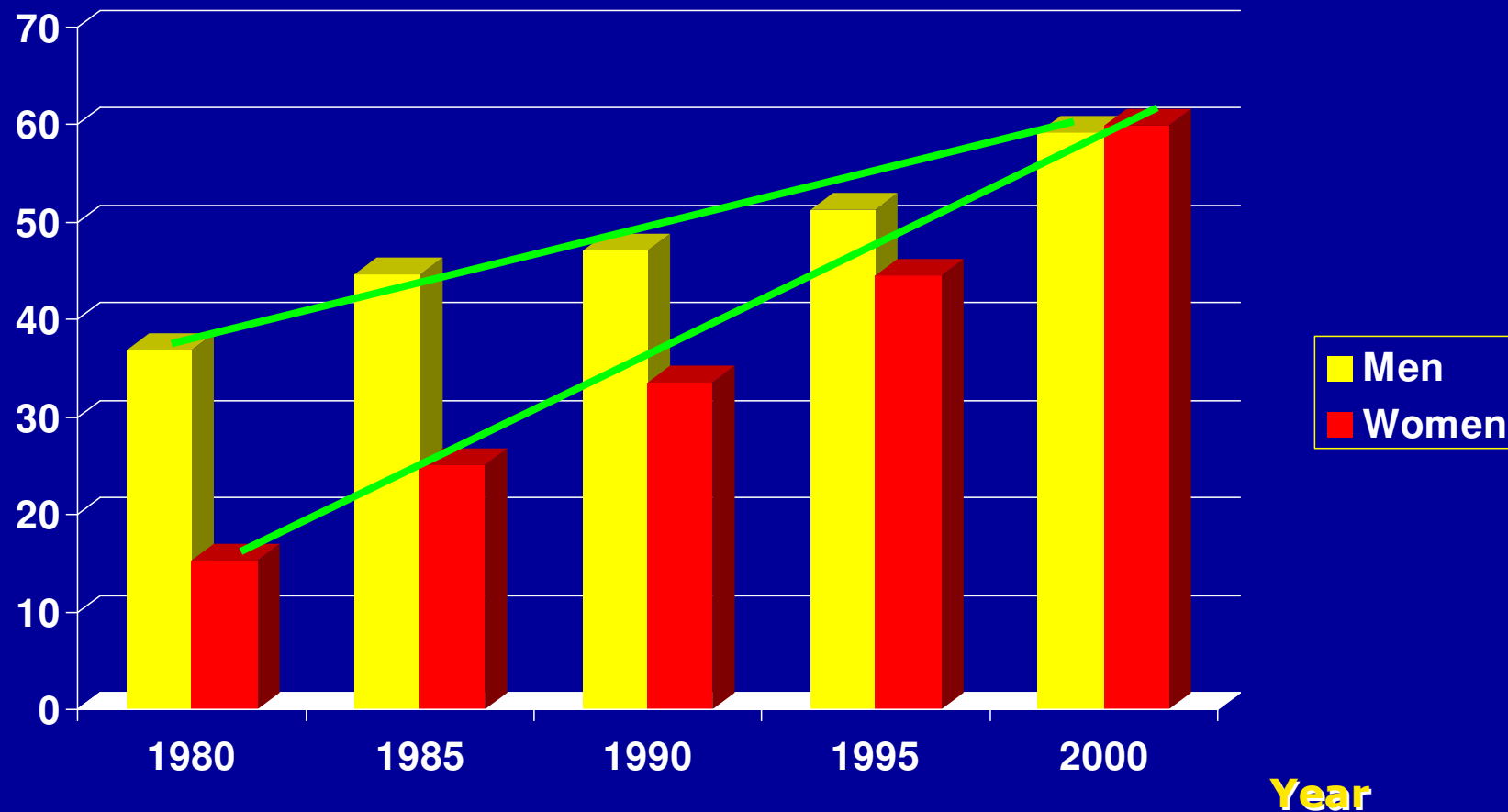


Burden of COPD

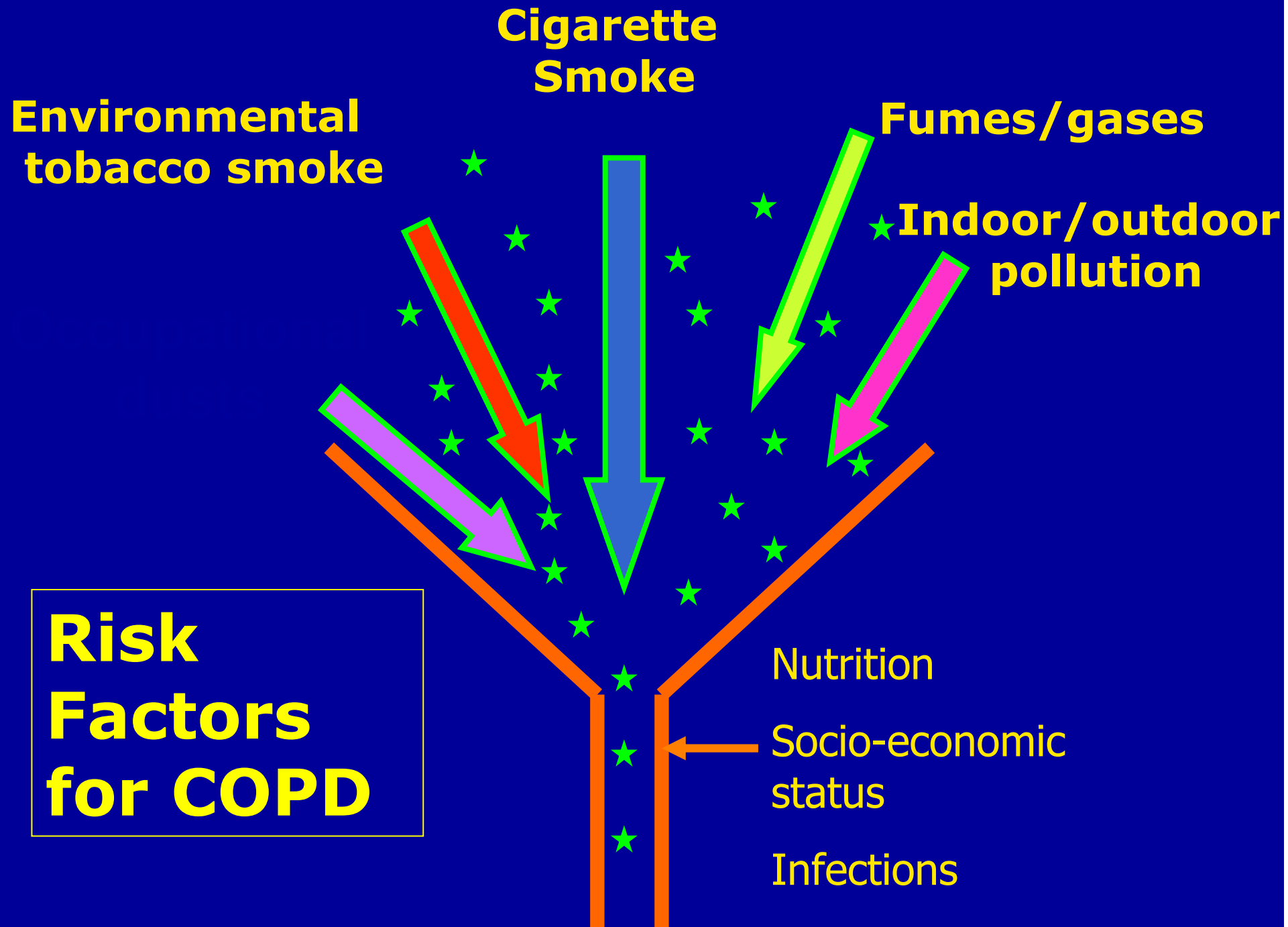
- COPD is a major cause of morbidity, mortality and disability
- High prevalence, morbidity and mortality of COPD present challenges for healthcare systems
- Despite its ease of diagnosis, COPD remains an under-diagnosed disease, chiefly in its milder and more treatable form

COPD Mortality by Gender, USA, 1980-2000

Number Deaths x 1000



Source: Mannino D, US CDC, August 2002



**Chronic Respiratory
Diseases**

are a

**Global Public Health
Problem**