

Demographic Trends Challenging the Nordic Welfare Societies

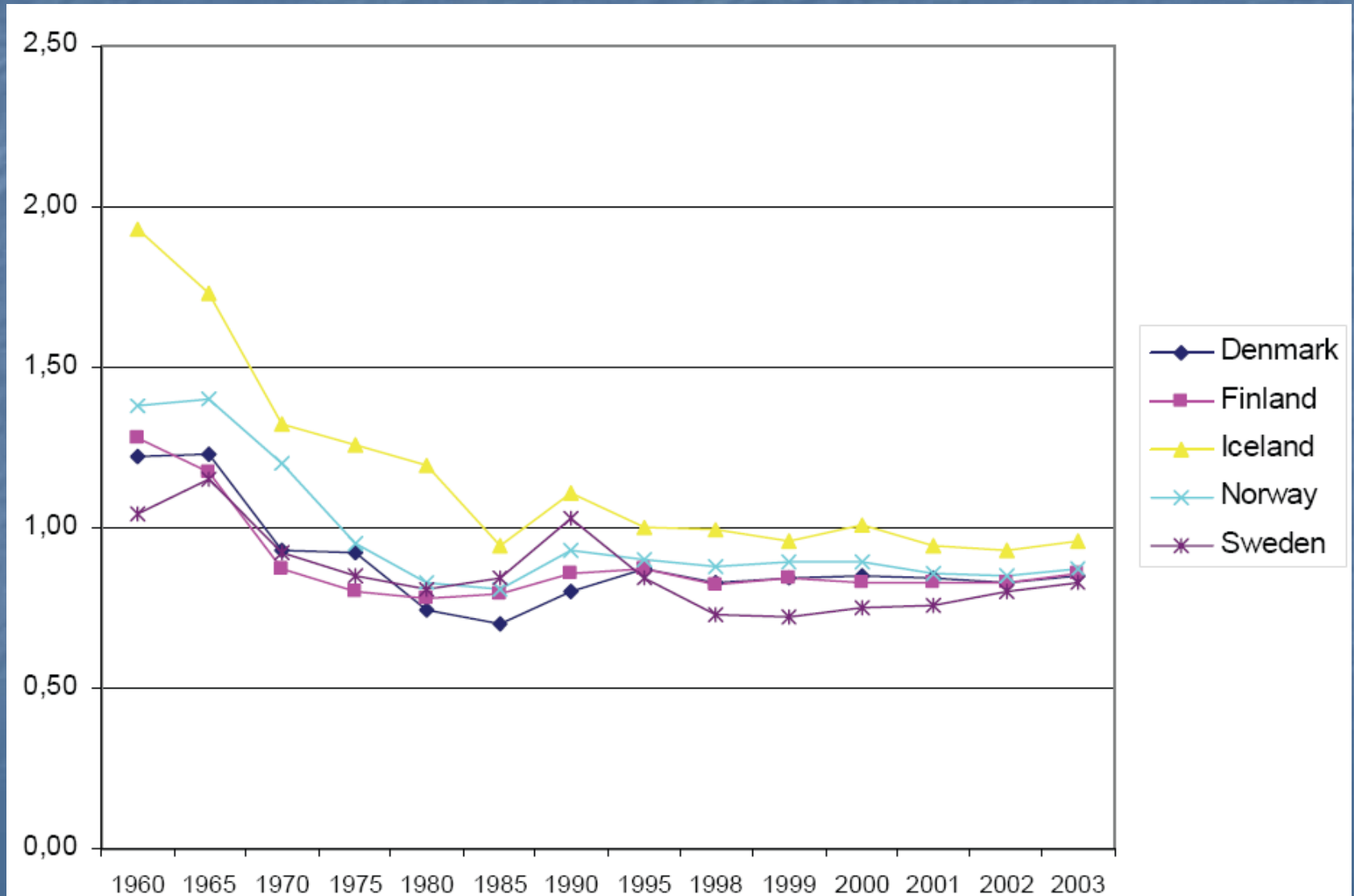
- focusing on public health

Max Petzold, Ass. Professor
Nordic School of Public Health

Nordic trends

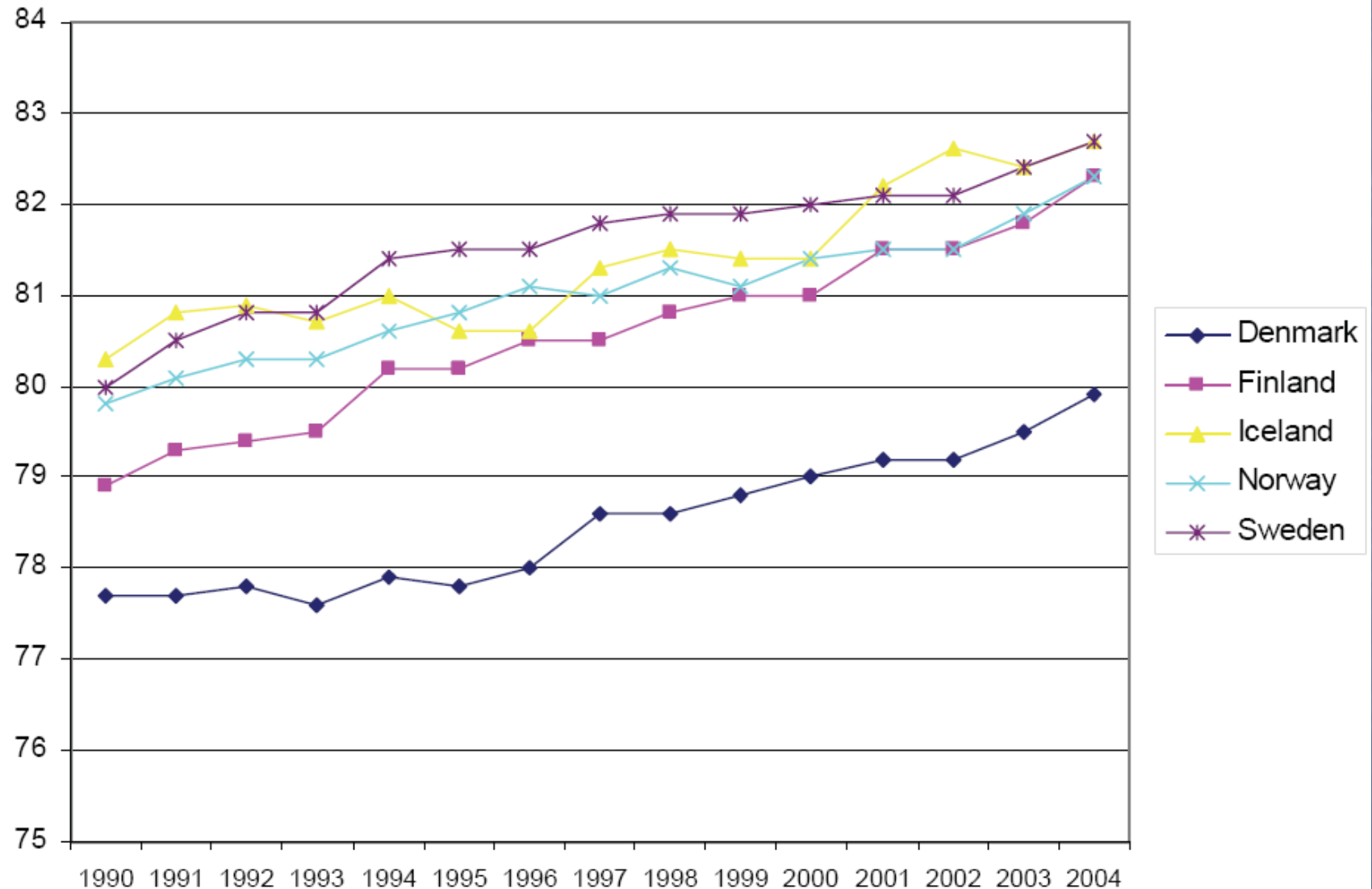
We reproduce less

- number of girls born per fertile woman

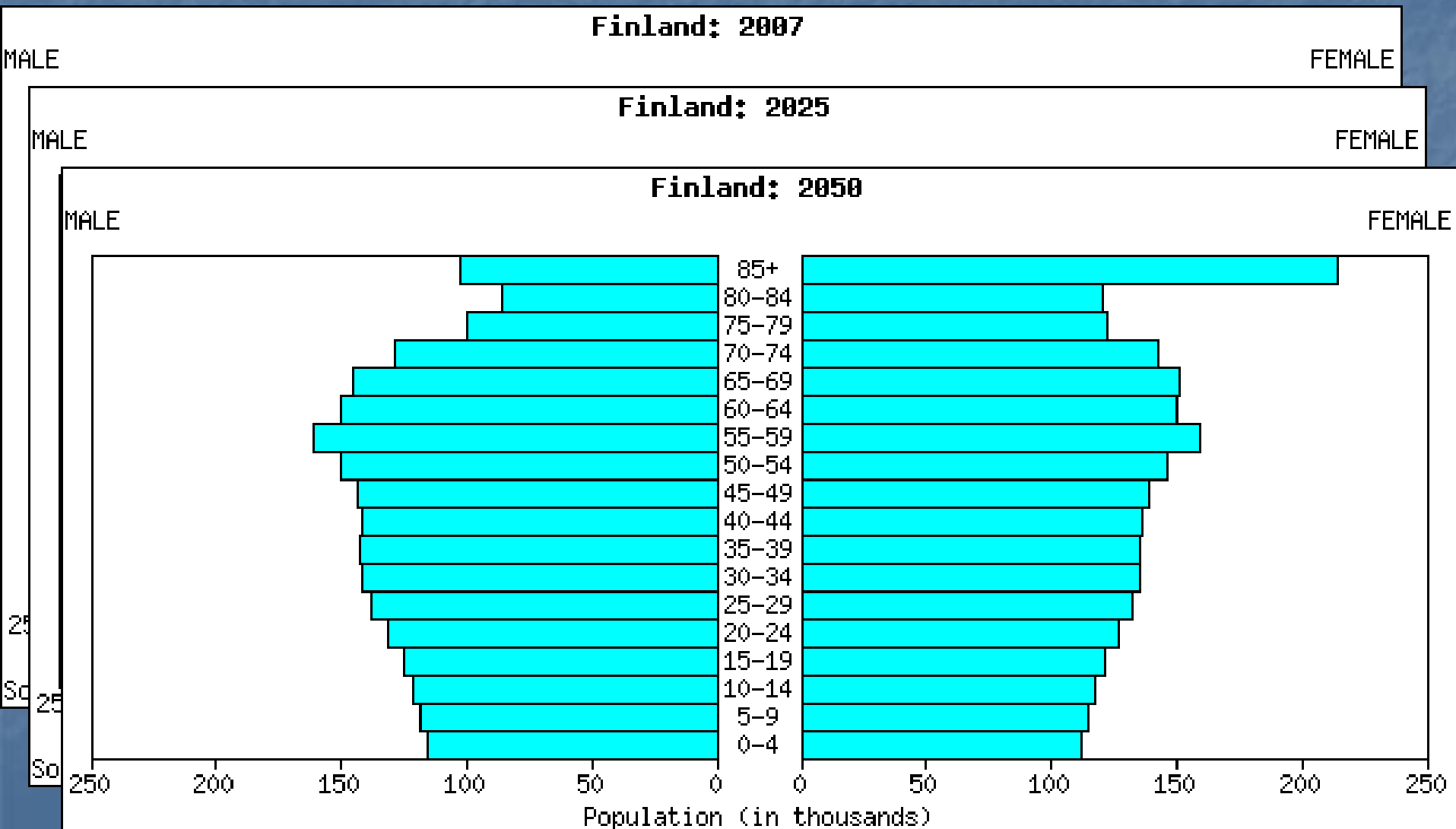


but we live longer

- life expectancy at birth, women

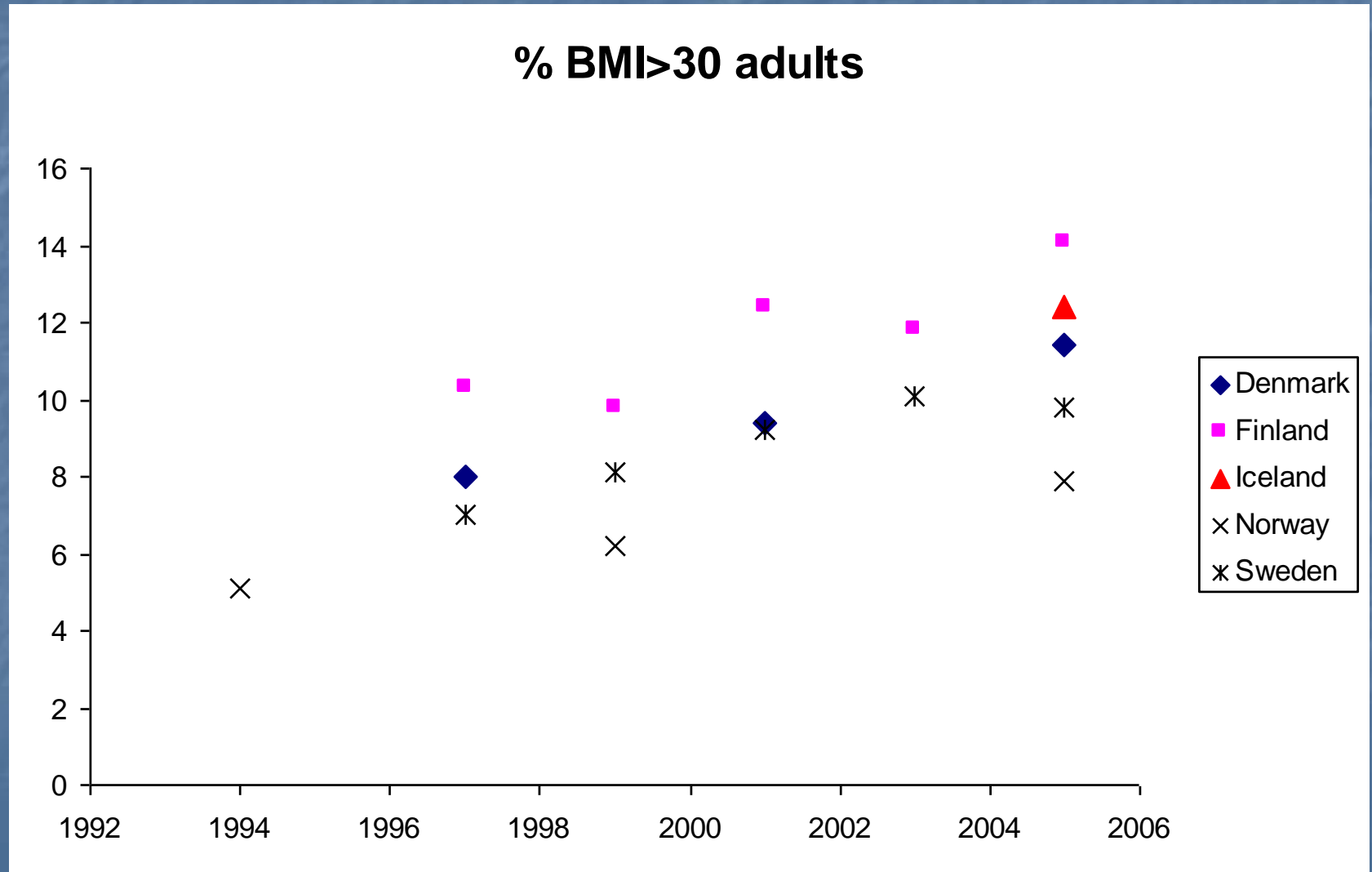


which changes the age distribution



Source: U.S. Census Bureau, International Data Base.

Risk factors - Increasing obesity

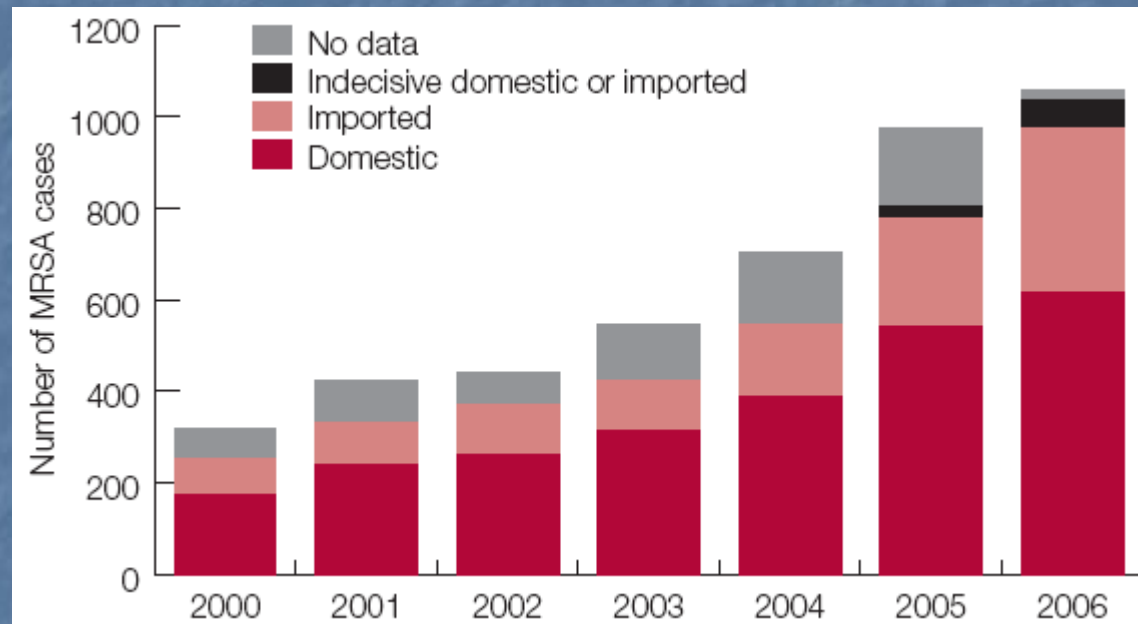


The welfare challenge

- public health and medication

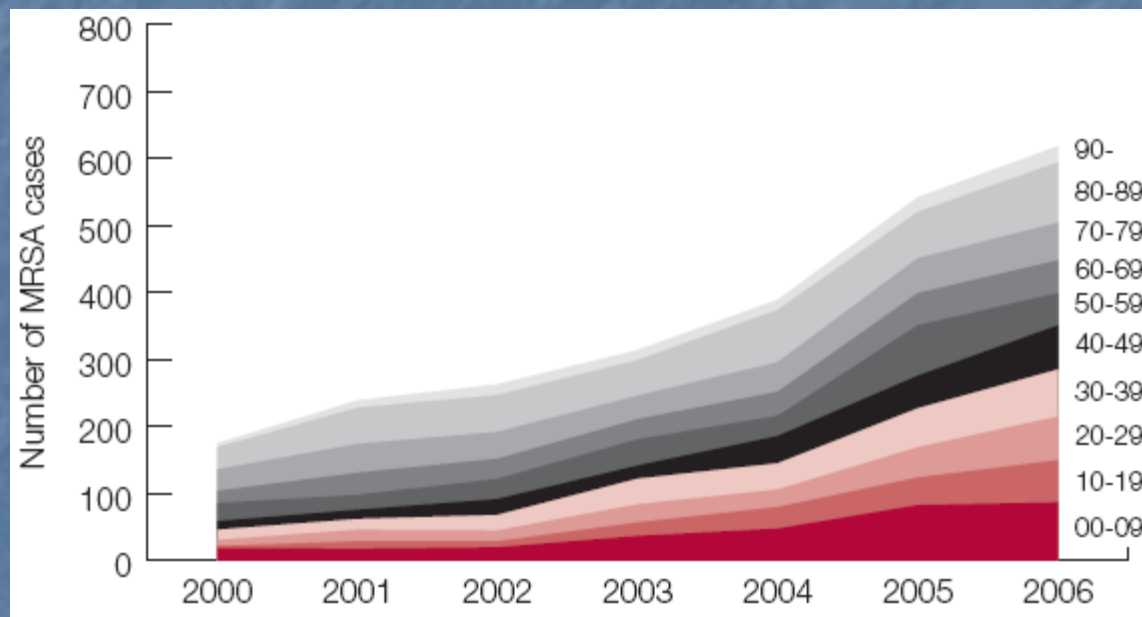
1. Antibiotic resistance

Cases of MRSA (Methicillin-resistant *S aureus*) per year by country of infection - Sweden 2000-2006.



Age distribution among notified domestic cases of MRSA in Sweden

- Elderly and young overrepresented

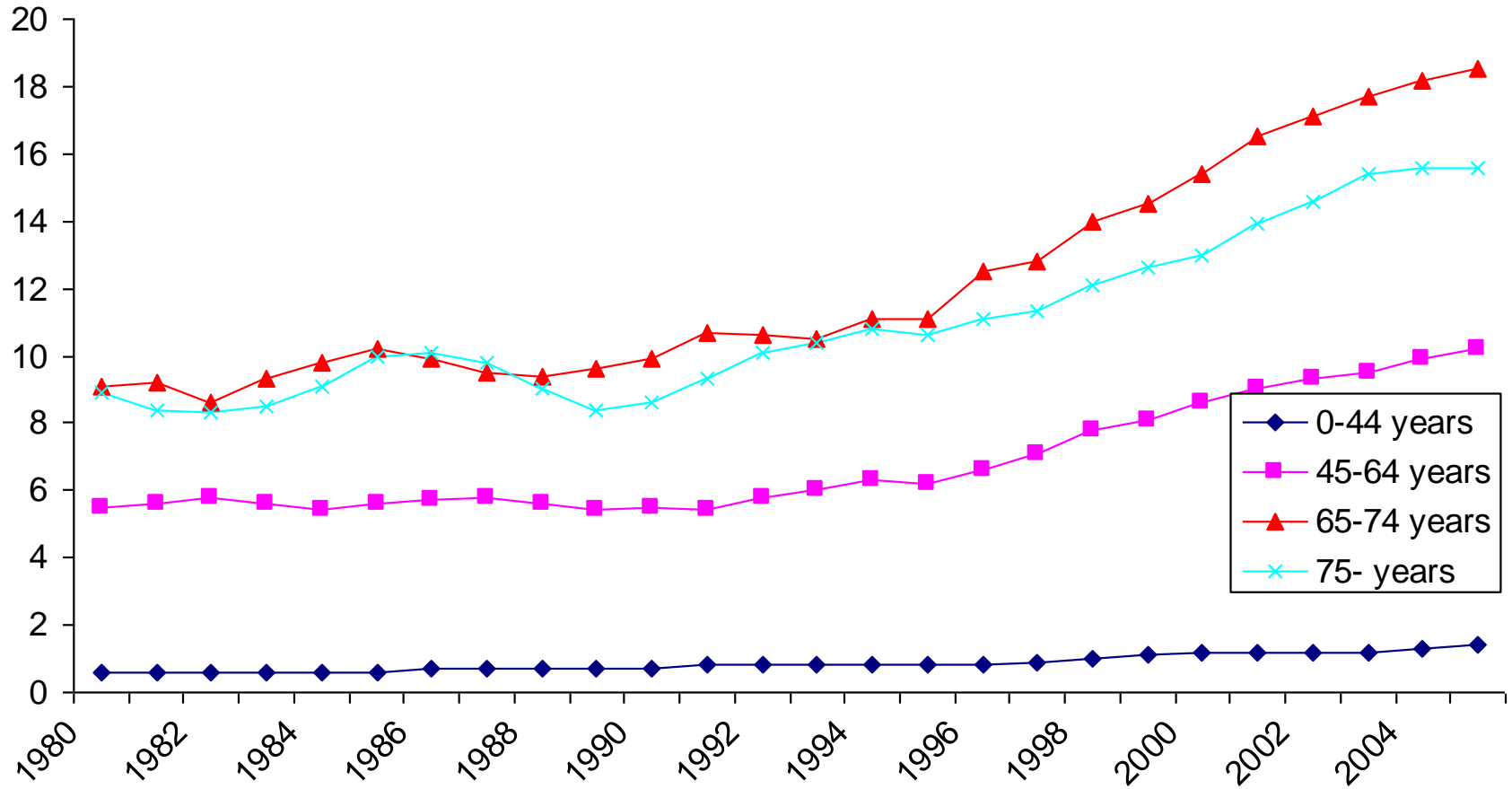


MRSA costs

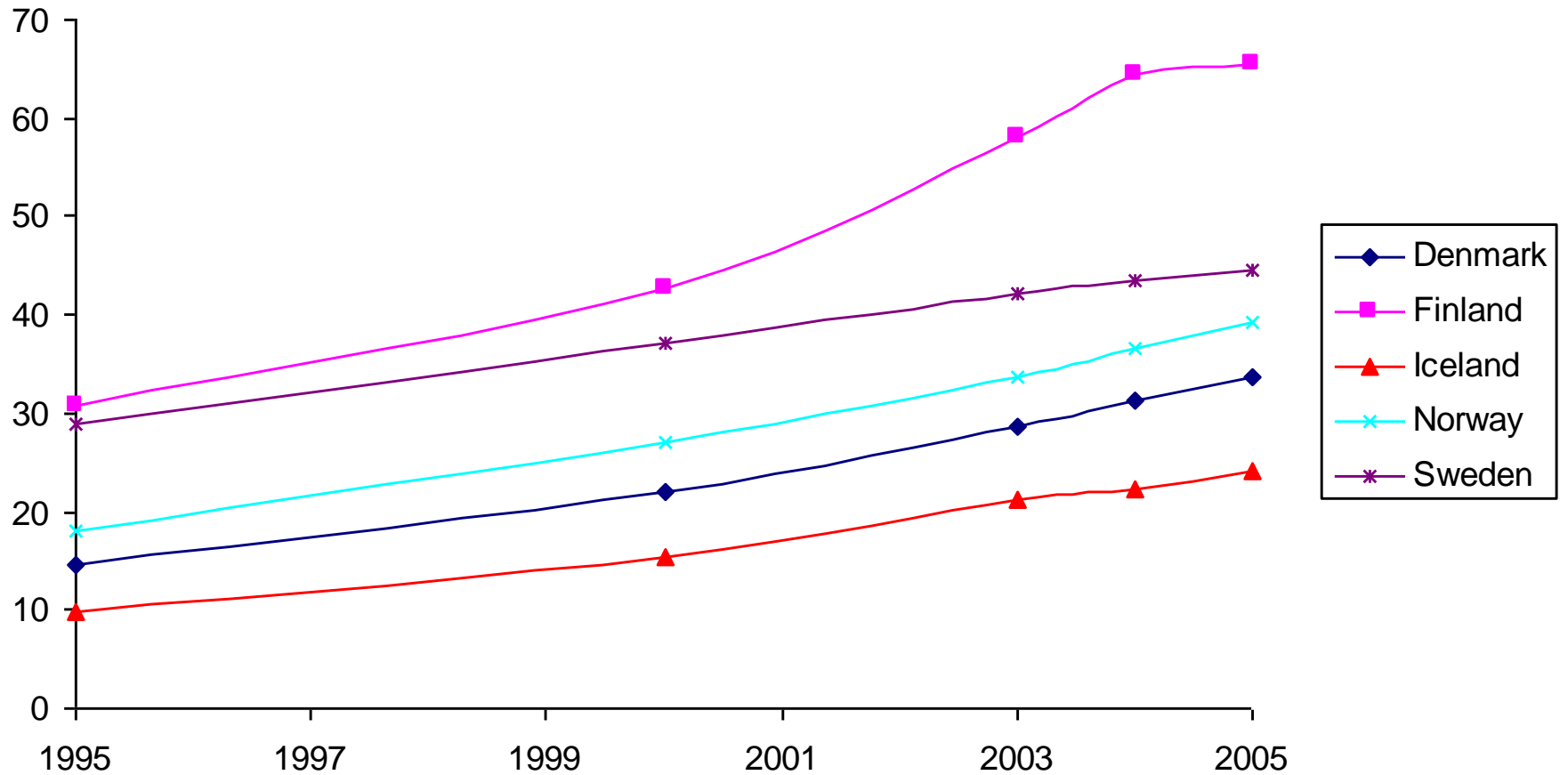
- 2 times increased mortality (Cosgrove 2003)
- In Sweden about 180 deaths per year (SweRes 2007)
- MRSA outbreak in Finnish 1752-bed hospital 2003/04: 266 cases, 402.000 Euros for treatment, 1.184.000 Euros for closed beds (Kanerva 2007)

2. Diabetes

Diabetes prevalence (%) per age group in USA (source CDC)

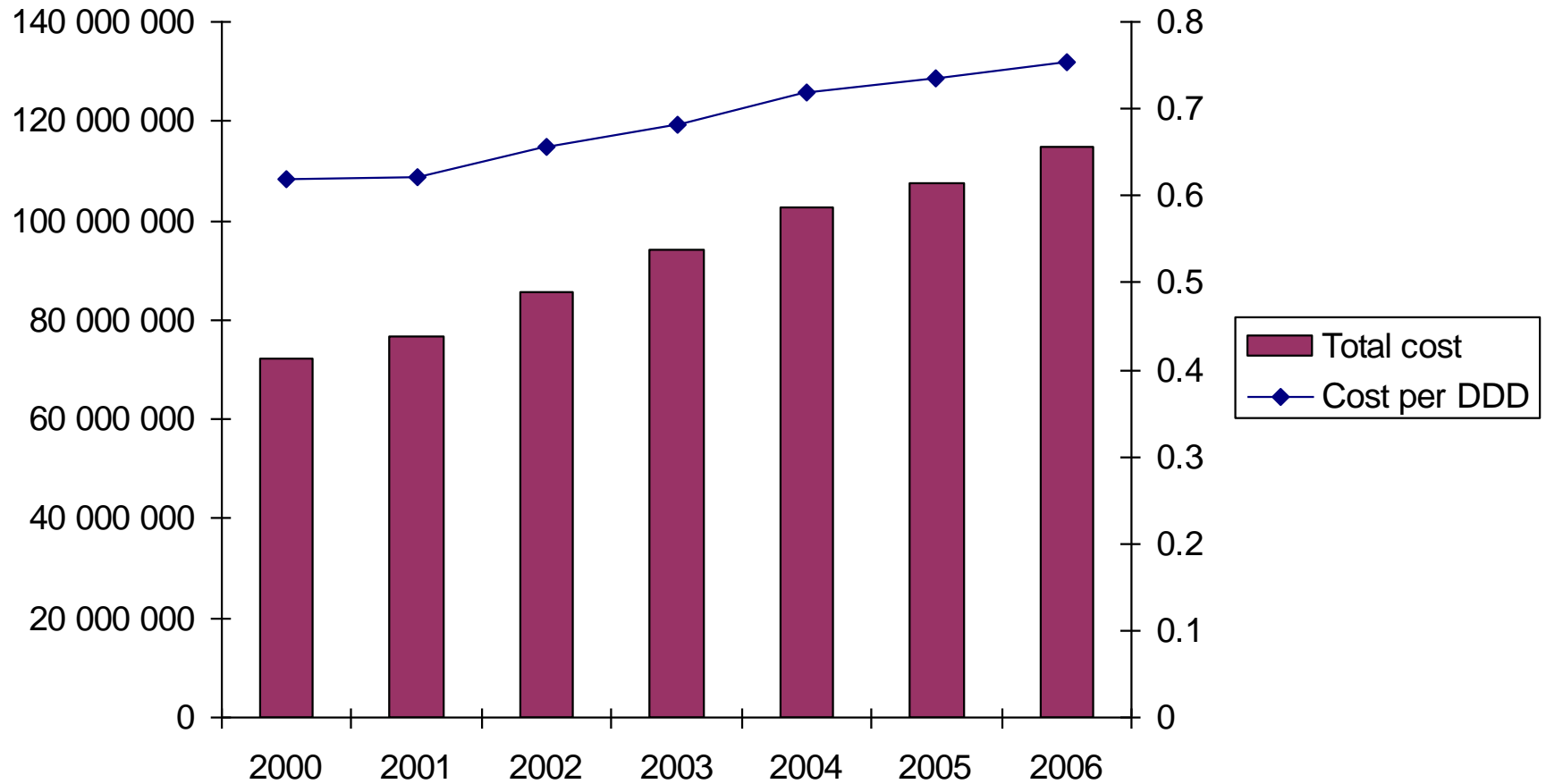


Diabetes medicines DDD/1000 inhabitants /day (ATC-group A10)



Defined Daily Dose (DDD) = 'the average one-day dose'

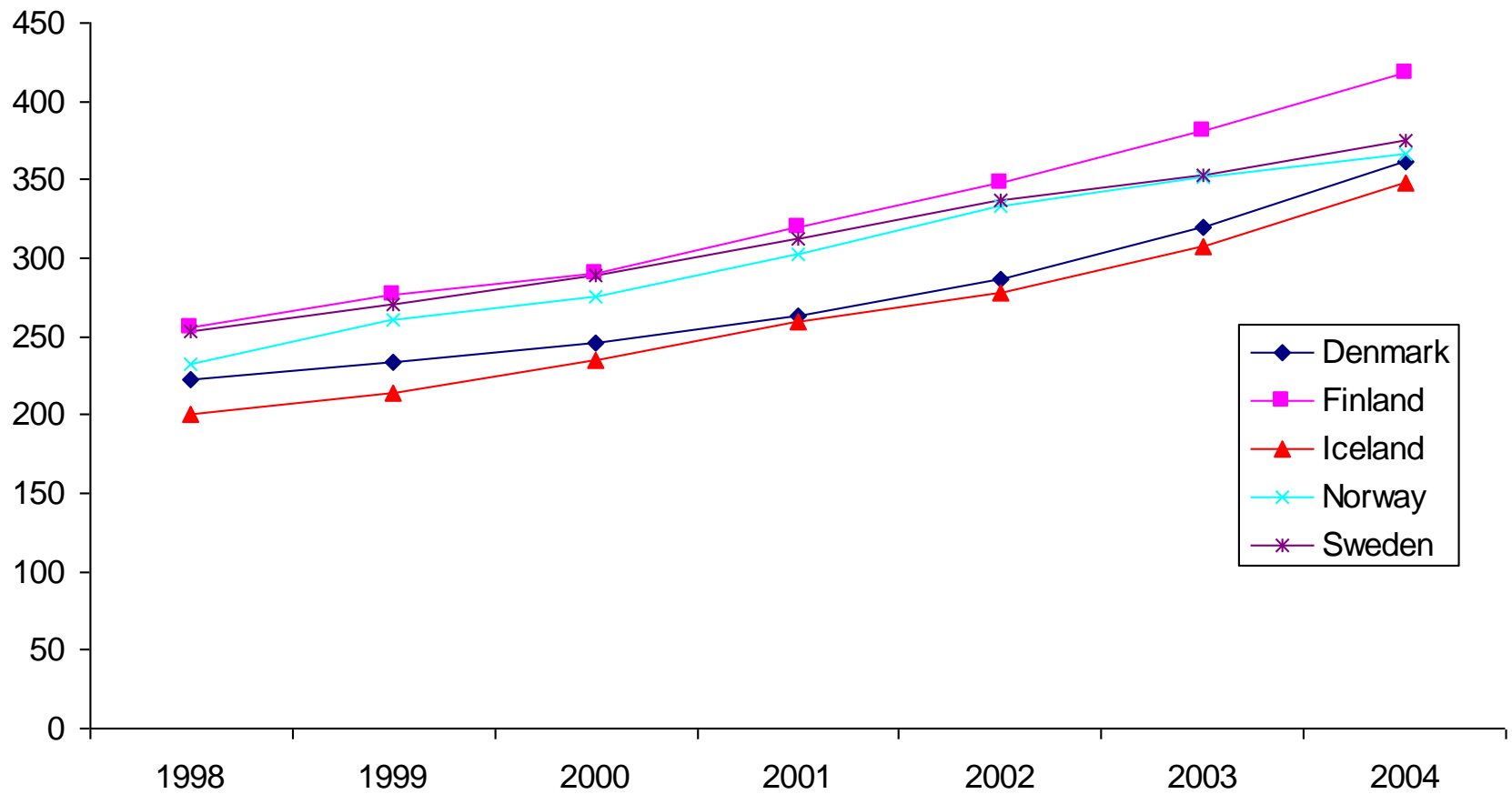
Sweden: Total cost and cost per DDD diabetes medicines (Euro)



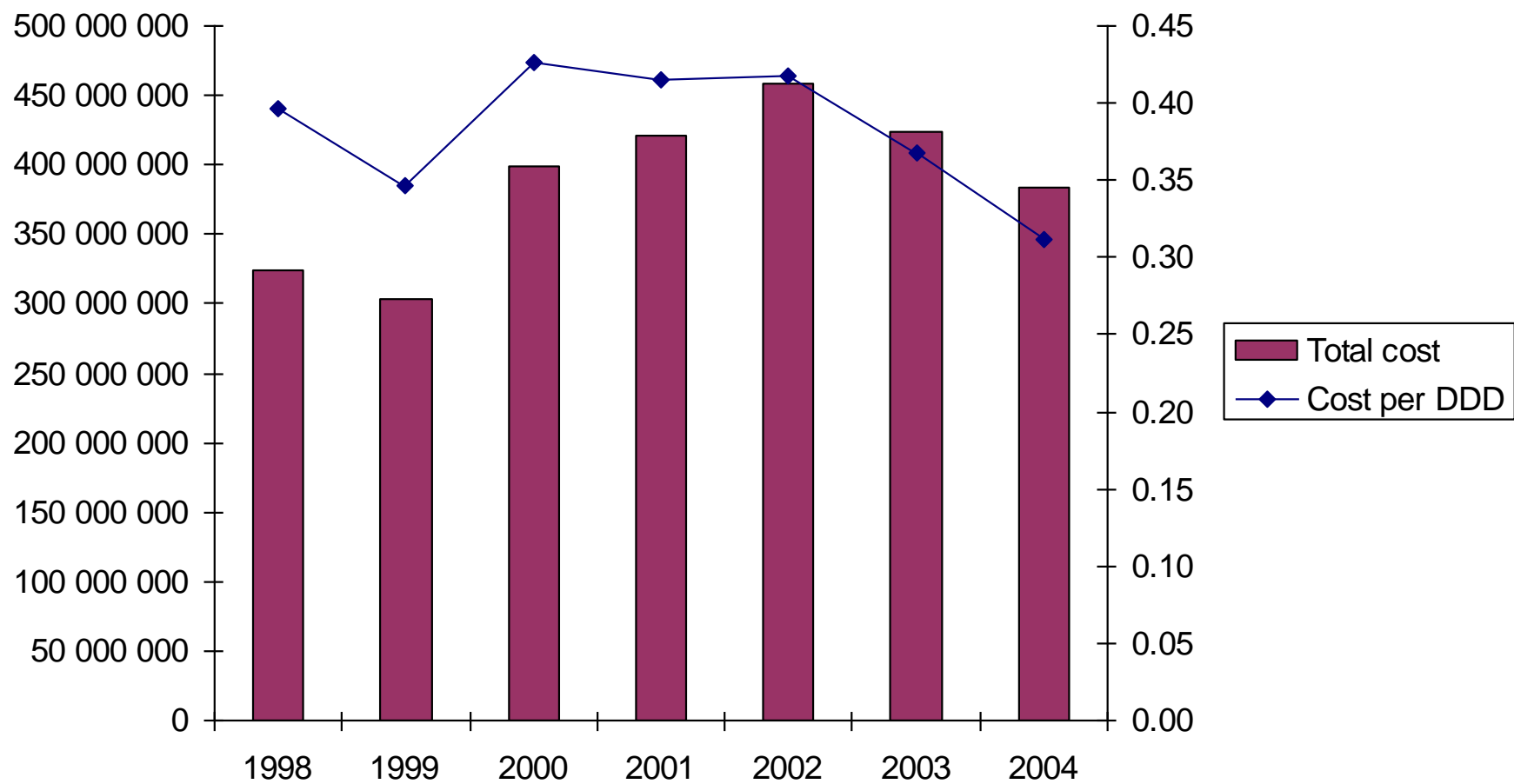
3. Cardiovascular health

Cardiovascular agents increases

Sales, ATC gr. C, DDD/1000 inhab/day



Sweden: Total cost and cost per DDD cardiovascular agents (Euro)



And also decreasing trends cardiovascular mortality

Cardiovascular deaths/100.000 total population

