# Influenza The Austrian Experience

Ingomar Mutz, Leoben (Austria)

#### Influenza in Austria

#### **Austrian Yearbook of Statistics:**

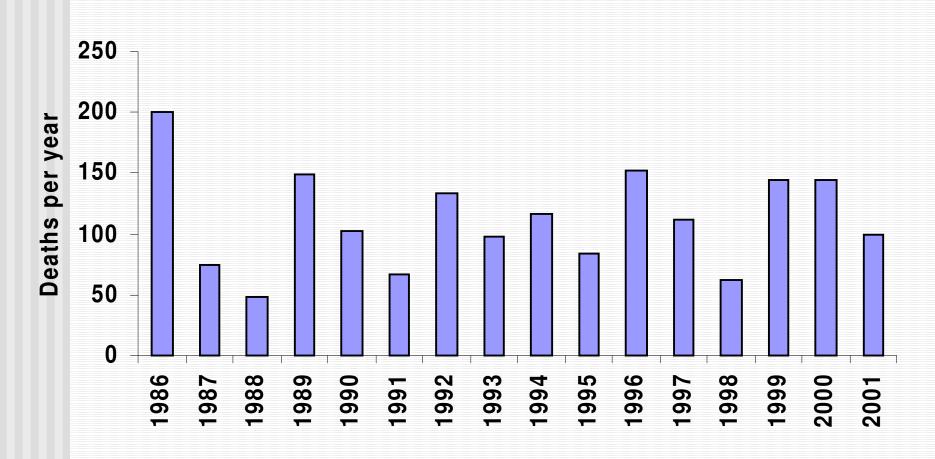
The annual number of deaths due to influenza is given between 50 and 150.

This number is incorrect and much too low.

The reports do not clearly differentiate between confirmed cases of influenza versus respiratory infections due to other viruses.

Therefore, this report system is not able to correctly describe influenza epidemics in Austria.

#### Deaths due to influenza



#### **Statistics Austria**

#### Deaths per week

The weekly death rate in most years shows a peak around new year.

This phenomenon is called excess mortality.

Because in the year 2001 there was no influenza epidemic in Austria there also was no excess mortality due to influenza.

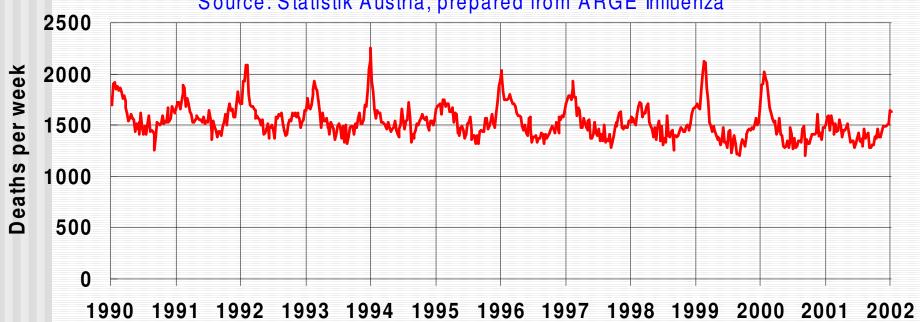
This allows for a better calculation of excess mortality due to influenza during other years.

The weekly death rate in years without epidemic can be calculated as 1.433

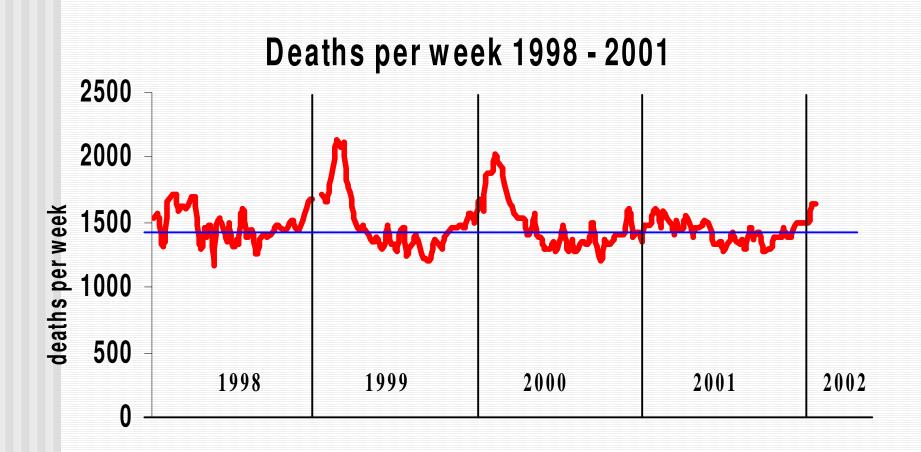
#### **Statistics Austria**

#### Weekly Death Rates in Austria 1990 - 2002

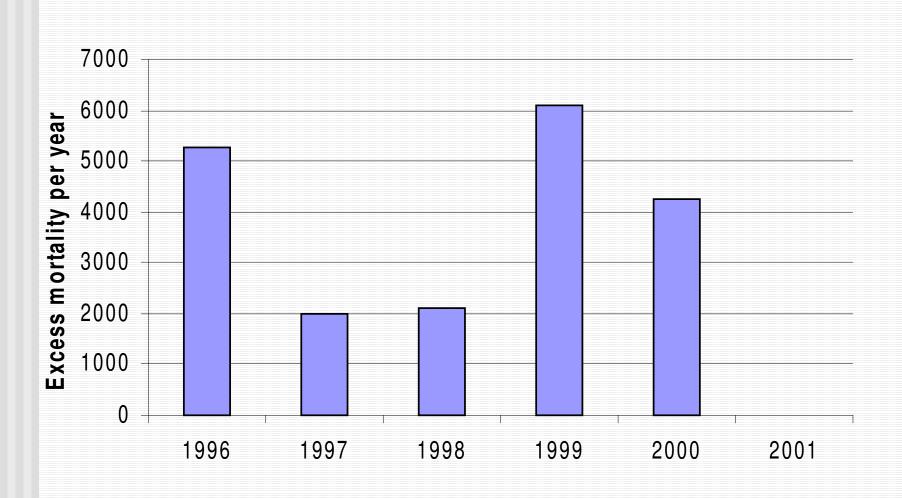




#### **Statistics Austria**



#### Excess mortality due to Influenza in Austria



Data from Mag.pharm. Kurt Vymazal, ARGE Influenza

#### Influenza in Austria

**Excess mortality as an indicator of influenza epidemics:** 

1996: **5.200** deaths

1997: 1.990 deaths

1998: **2.100** deaths

1999: 6.100 deaths

2000: 4.200 deaths

2001: no excess mortality, short and little virus circulation

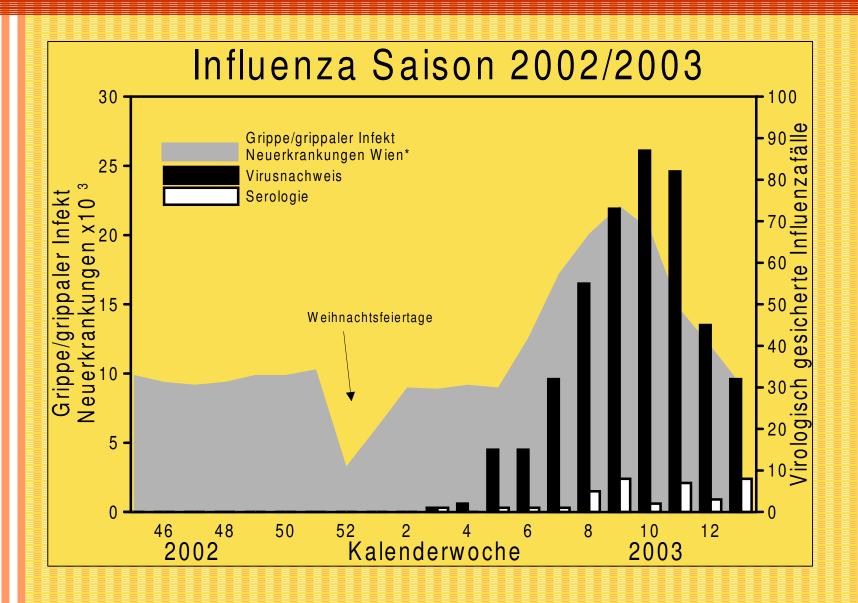
2002: no excess mortality, short and little virus circulation

Data from Mag.pharm. Kurt Vymazal, ARGE Influenza

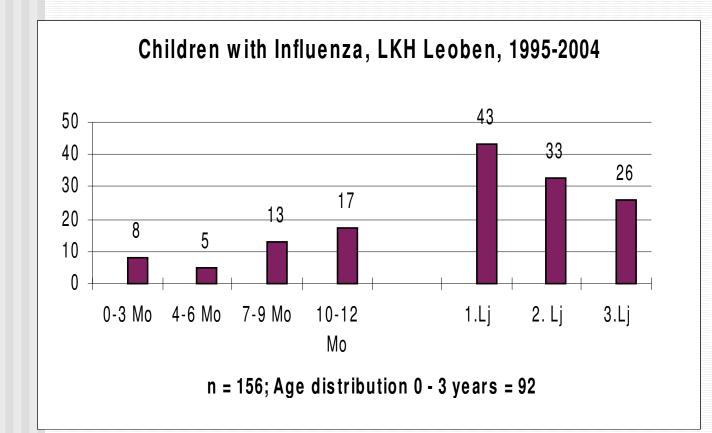
#### Influenza in Austria

### Correlation of excess mortality and indicators of influenza:

Excess mortality correlates with the circulation of influenza virus in the population and the transgression of the epidemic threshold in Vienna.



Prof.H. Holzmann, Virologie Wien



#### Hospitalisation for influenza in children

≈ 300/yr in Austria

#### 156 children, age 0-18 years

$$43 = 28\%$$
 1<sup>st</sup> year

= 59% during the first three years of life!

#### Influenza immunization recommendation in Austria

to be vaccinated against influenza.

# Ideally all individuals should have the opportunity

In accordance with WHO in Weekly epidemiological record (WER) July 17<sup>th</sup> 2002: No. 28, 2002, 77, 230-239

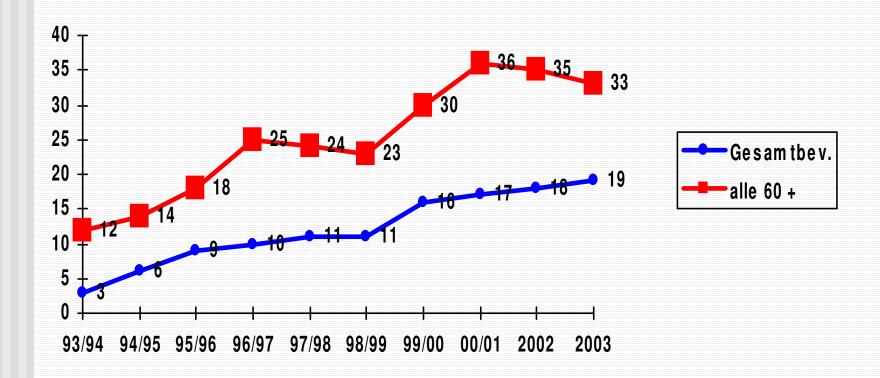
#### Influenza immunization recommendation in Austria

## Immunization is recommended for everyone who wishes to be protected.

Immunization is especially recommended for

- children (after the 6<sup>th</sup> month of life), juveniles, and adults with increased risk due to underlying diseases such as chronic disorders of lungs, heart, and circulation, kidney diseases, metabolic diseases, and immunodeficiency disorders (inborn or acquired)
- persons > 60 years
- persons caring for high risk groups (sick children, nursing homes, hospitals)
- persons with frequent contact in public

#### Influenza immunization coverage in Austria



Data from Mag.pharm. Kurt Vymazal, ARGE Influenza