

Health transition in Bosnia and Herzegovina 1970-2015: Changing Patterns of Mortality

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Introduction

- **Significant health transition caused by demographic, social and economic changes has been occurred in Bosnia and Herzegovina (B&H) in the last four decades .**
- **This paper is intended to provide a general overview of changes in population health in B&H expressed by pattern of mortality from 1970 to 2015.**

Methodology

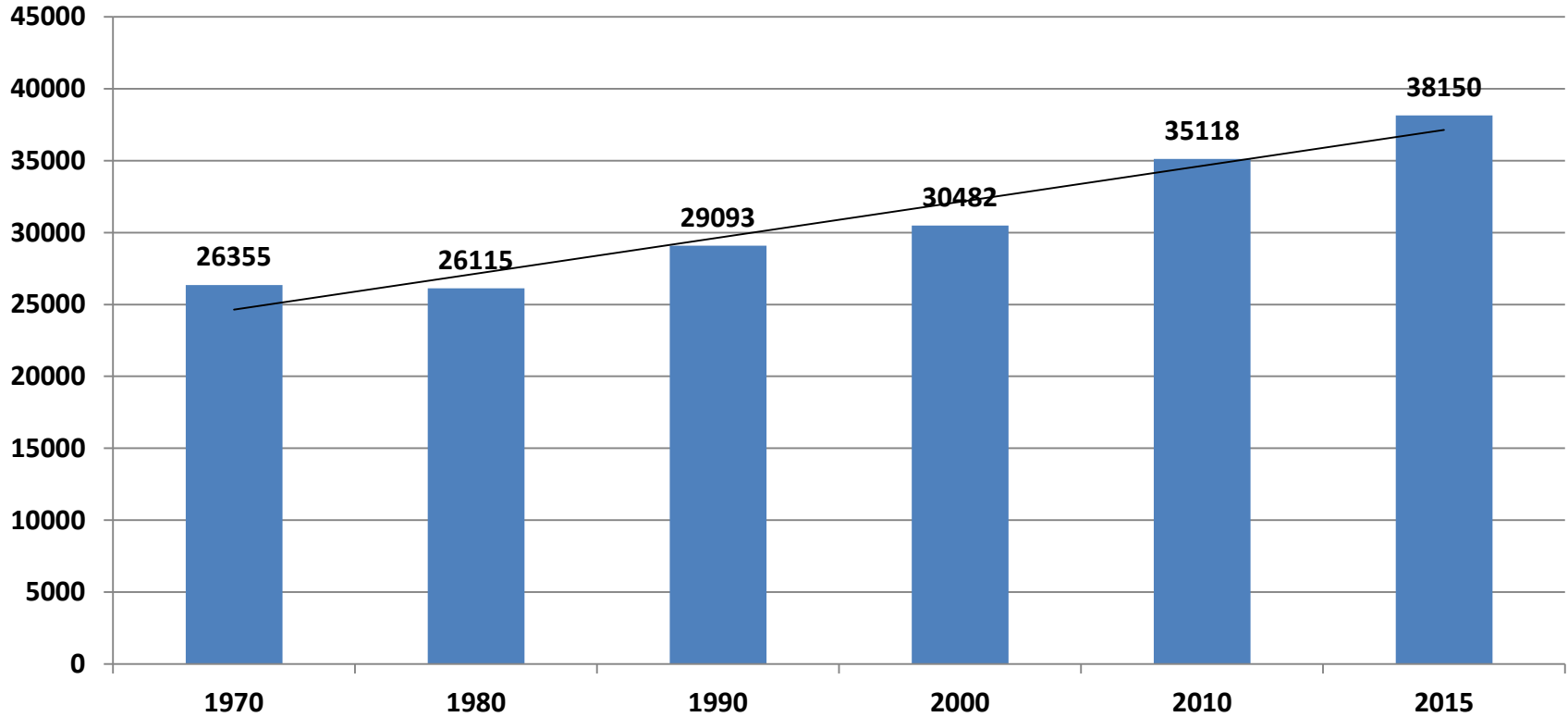
- For given period there has been analysed the time series of proportion for four causes of death:
 - communicable diseases,
 - malignant neoplasm,
 - endocrine diseases
 - circulatory diseases.

Results

- **Total number of deaths/mortality rate in B&H in the last four decades increased continuously**

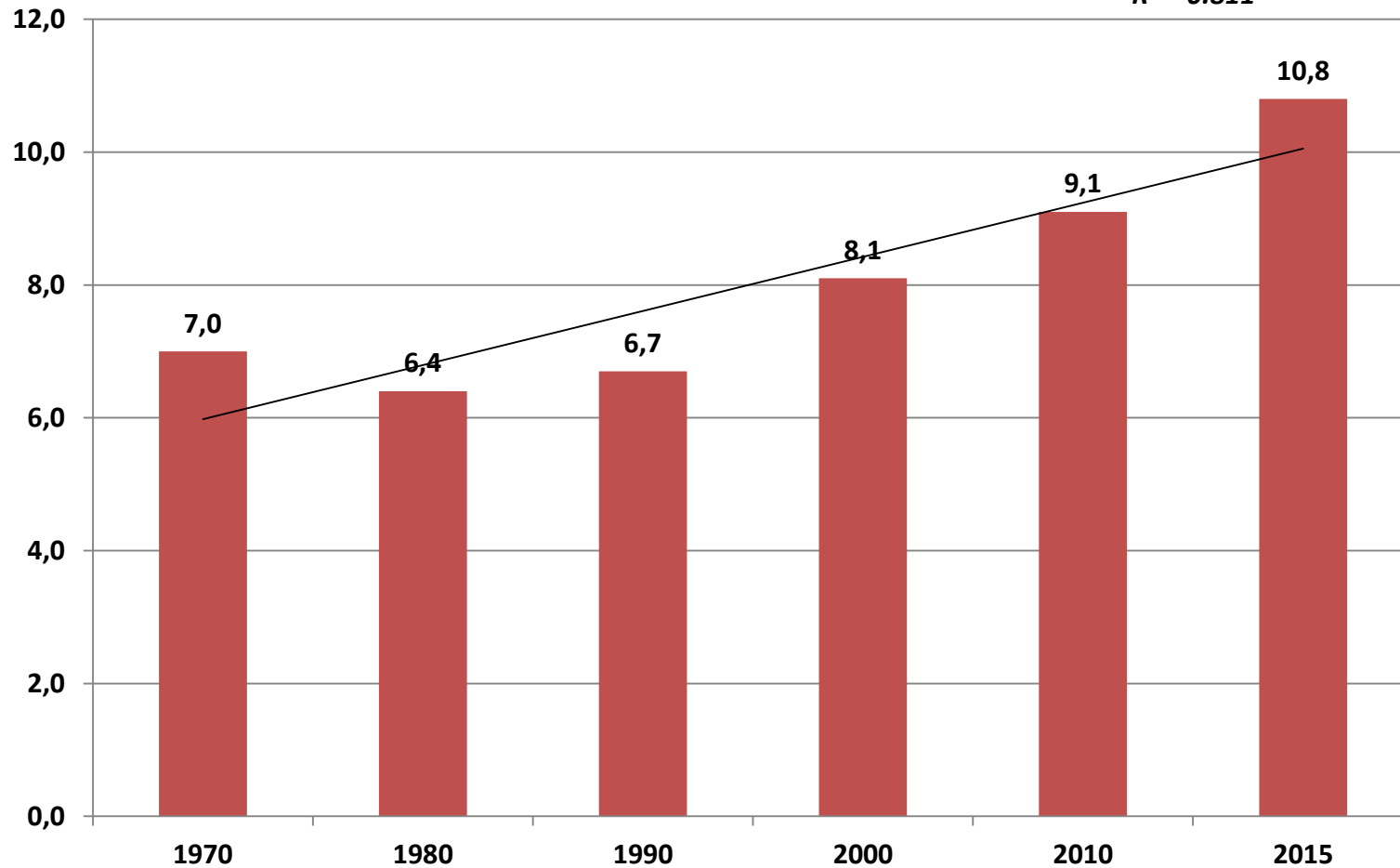
Number of deaths, B&H 1970-2015.

$$y = 2496.4x + 22148$$
$$R^2 = 0.9294$$



Death rate (uSDR), B&H 1970-2015.

$$y = 0.8143x + 5.1667$$
$$R^2 = 0.811$$

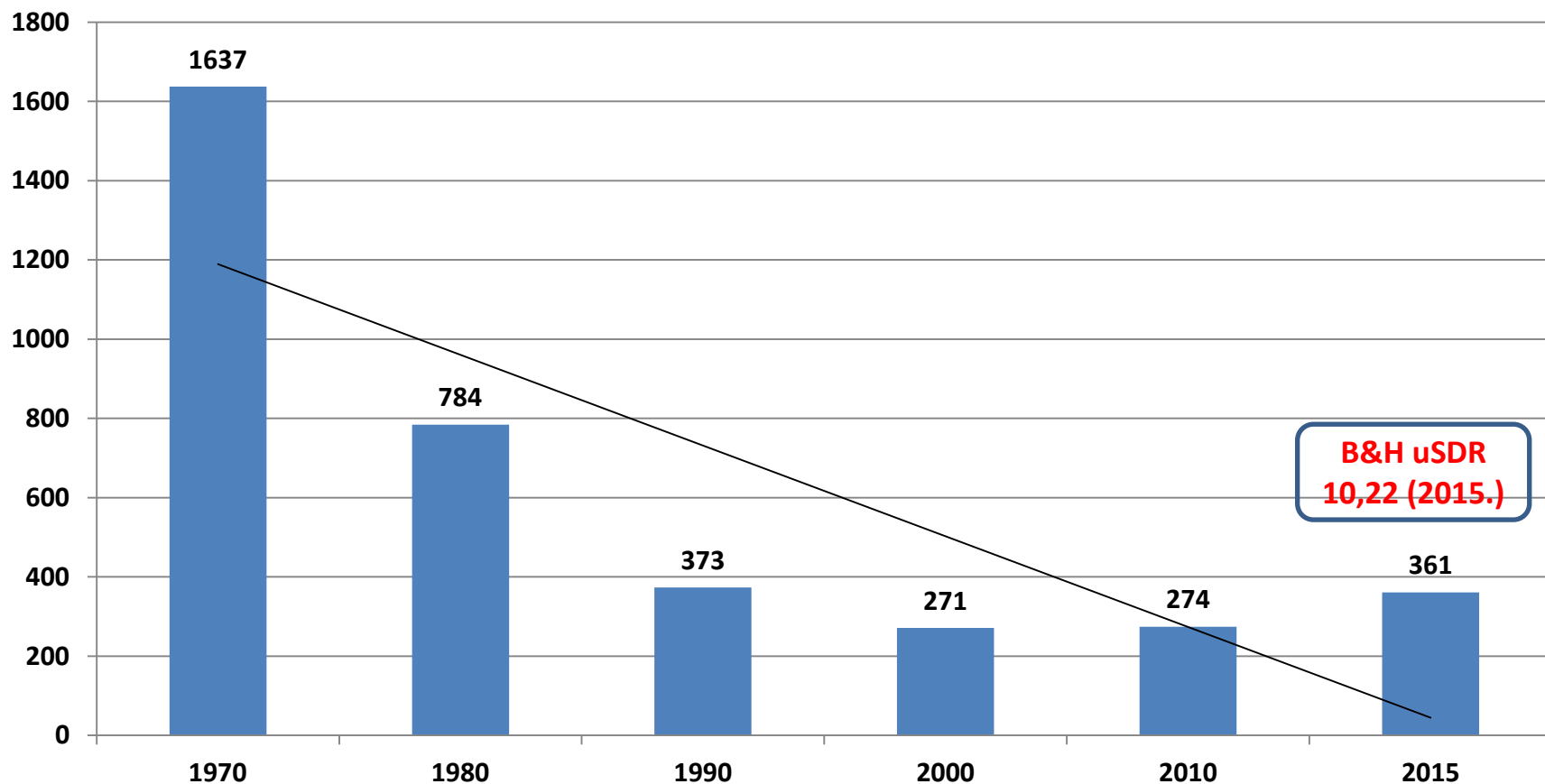


Deaths rate WHO European Region
10 (2015.)

Results

- **Since 1970 proportion of death from communicable diseases continuously decreased from 6% to 1% in 2015.**

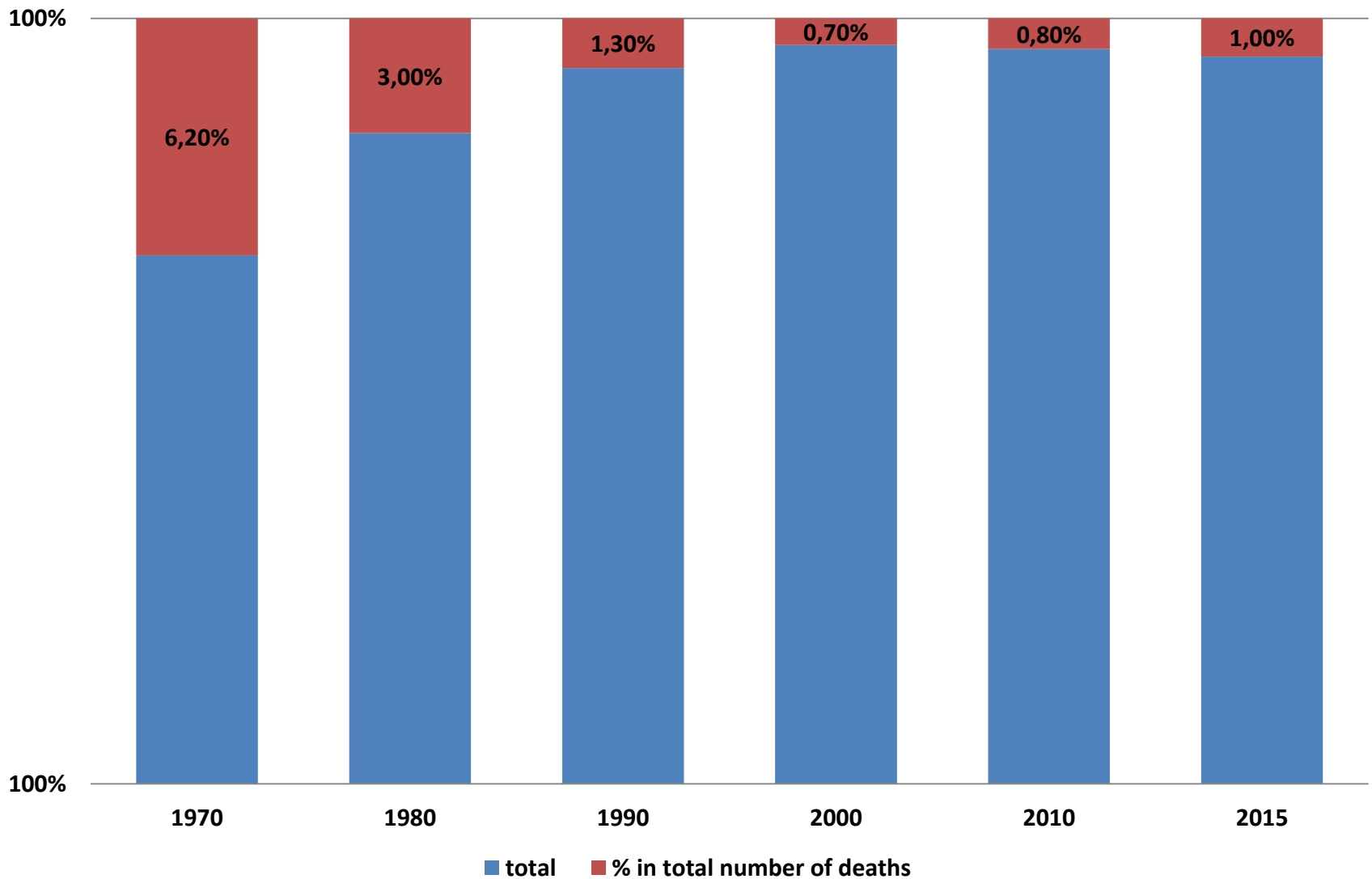
Number of deaths - communicable diseases, B&H, 1970-2015.



Deaths rate WHO European Region
12,36 (2014.)

B&H uSDR
10,22 (2015.)

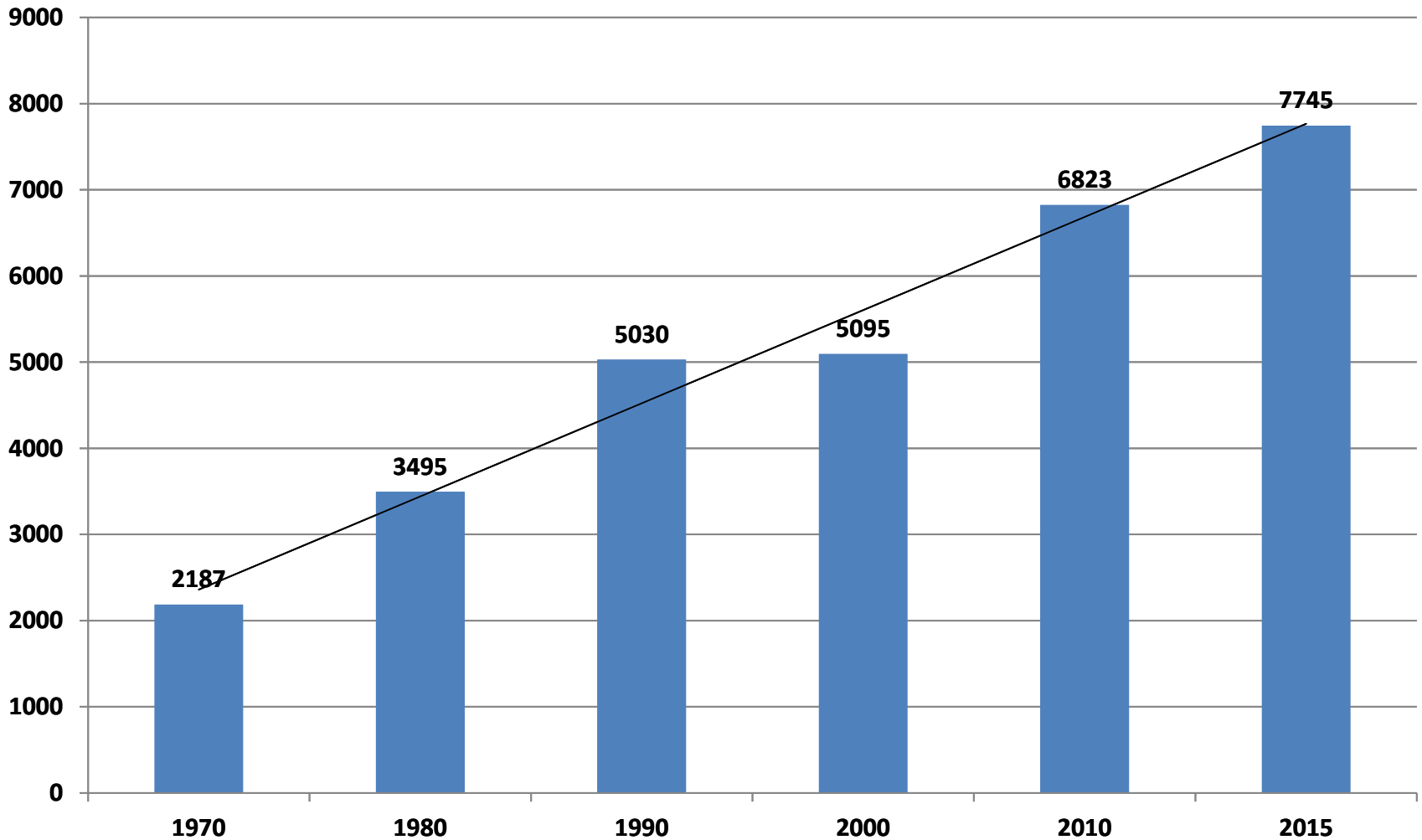
Proportion of deaths from communicable diseases, B&H, 1970-2015.



Results

- **Number of deaths from malignant neoplasm has steadily risen from 8% to 20% for the same period of time**

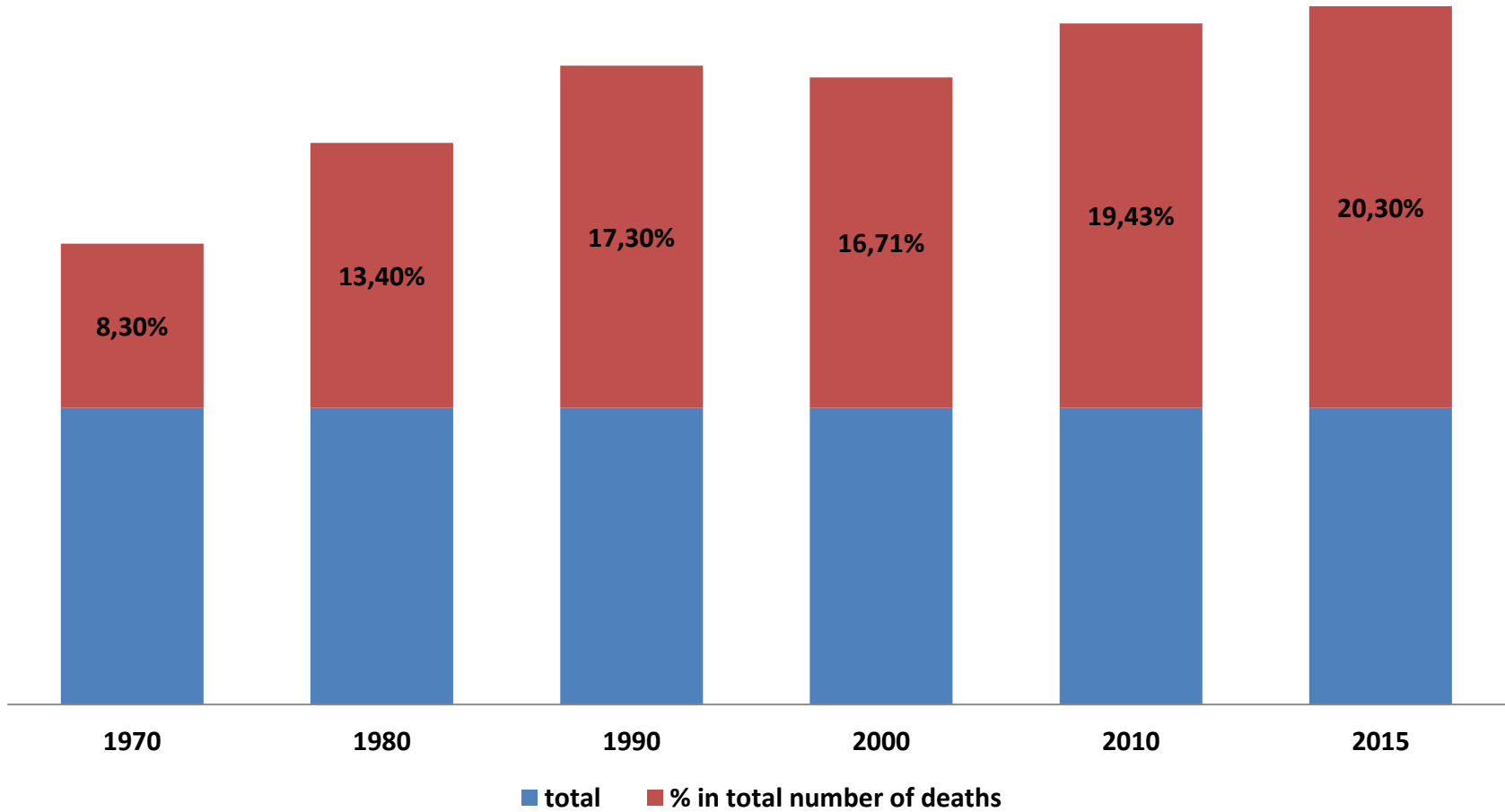
Number of deaths - malignant neoplasm, B&H, 1970-2015.



Deaths rate WHO European Region
152 (2015.)

Deaths rate B&H (uSDR)
219,3 (2015.)

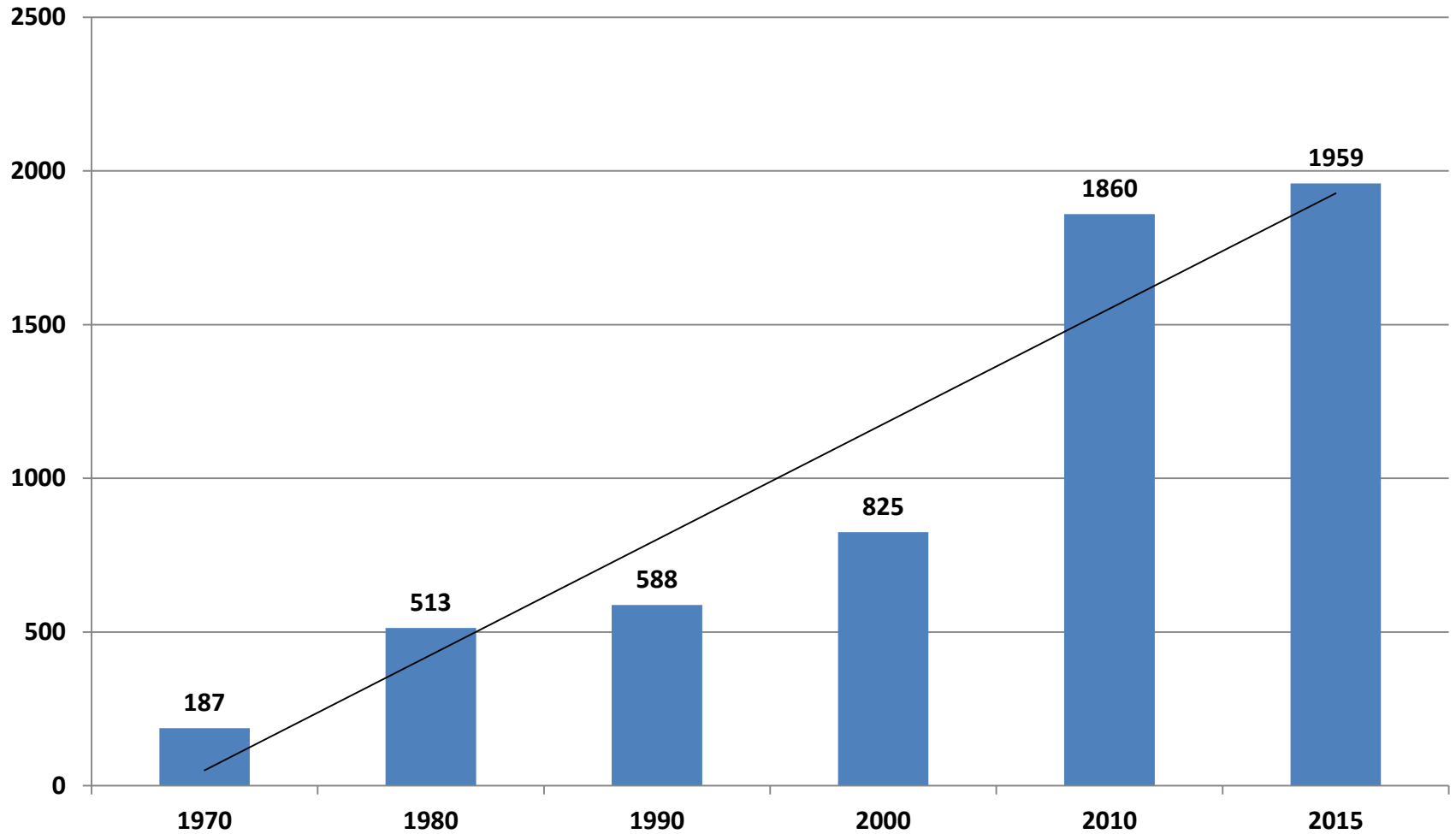
Proportion of deaths from malignant neoplasm, B&H, 1970-2015.



Results

- **The share of deaths from endocrine disorders at the beginning of the analyzed period was significant below 1%, while the proportion of these deaths in 2015. grew up to 5%**

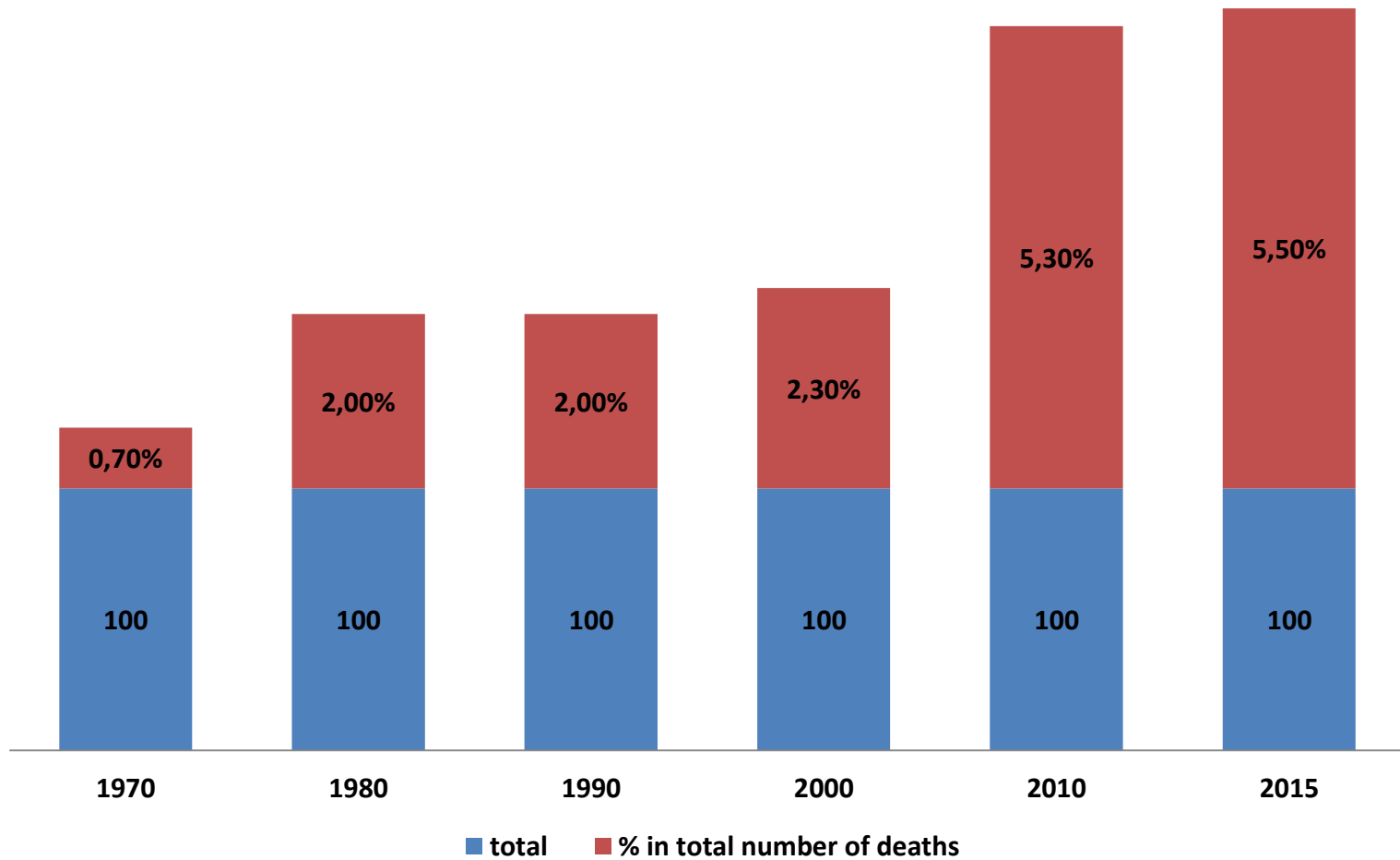
Number of deaths -endocrine, nutritional and metabolic diseases, B&H, 1970-2015.



Deaths rate WHO European Region
17 (2015.)

Deaths rate B&H (uSDR)
55,5 (2015.)

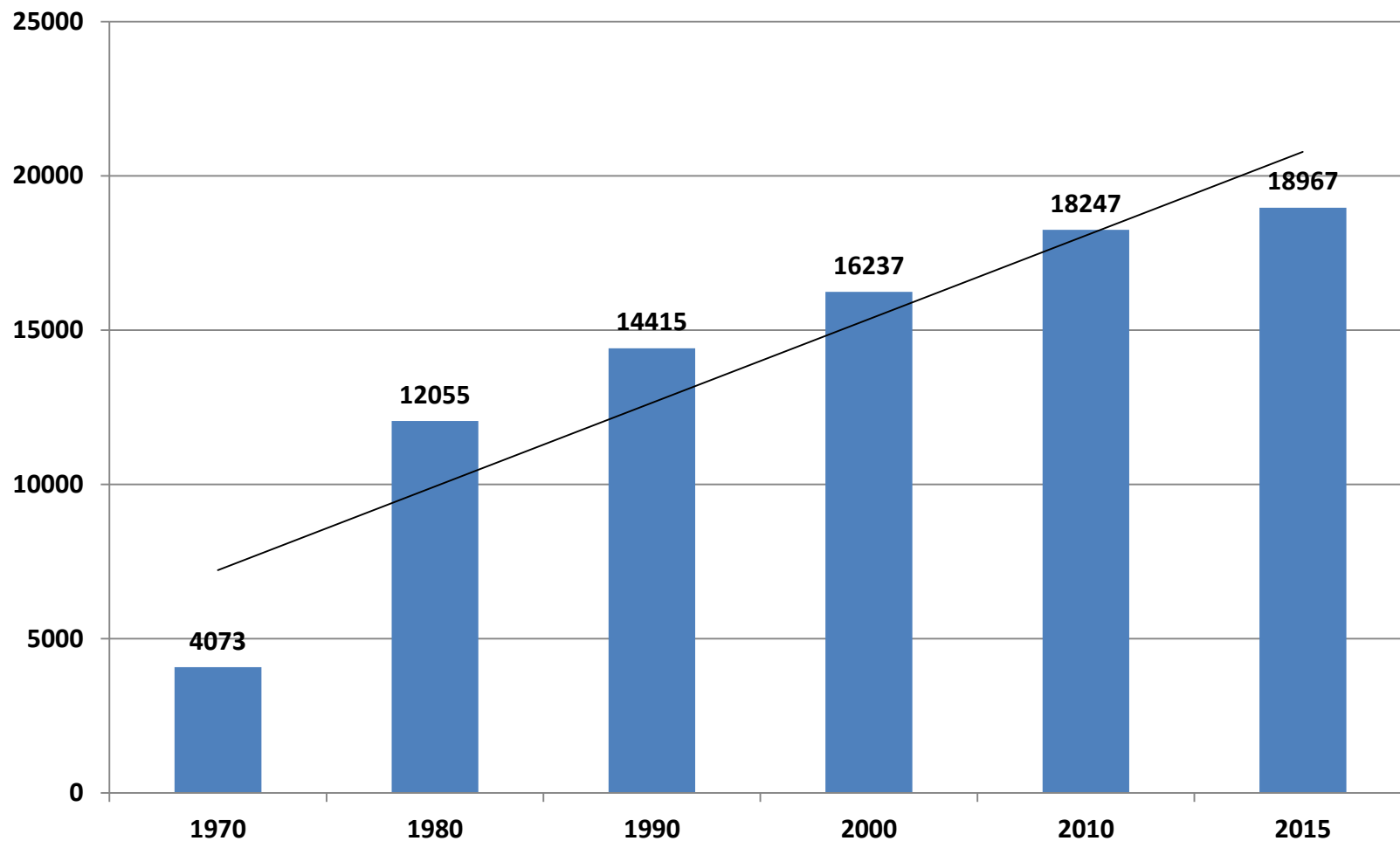
Proportion of deaths from endocrine, nutritional and metabolic diseases , B&H, 1970-2015.



Results

- **Over the last 40 years proportion of deaths from circulatory diseases in total mortality has dramatically increased from 15% to 50%**

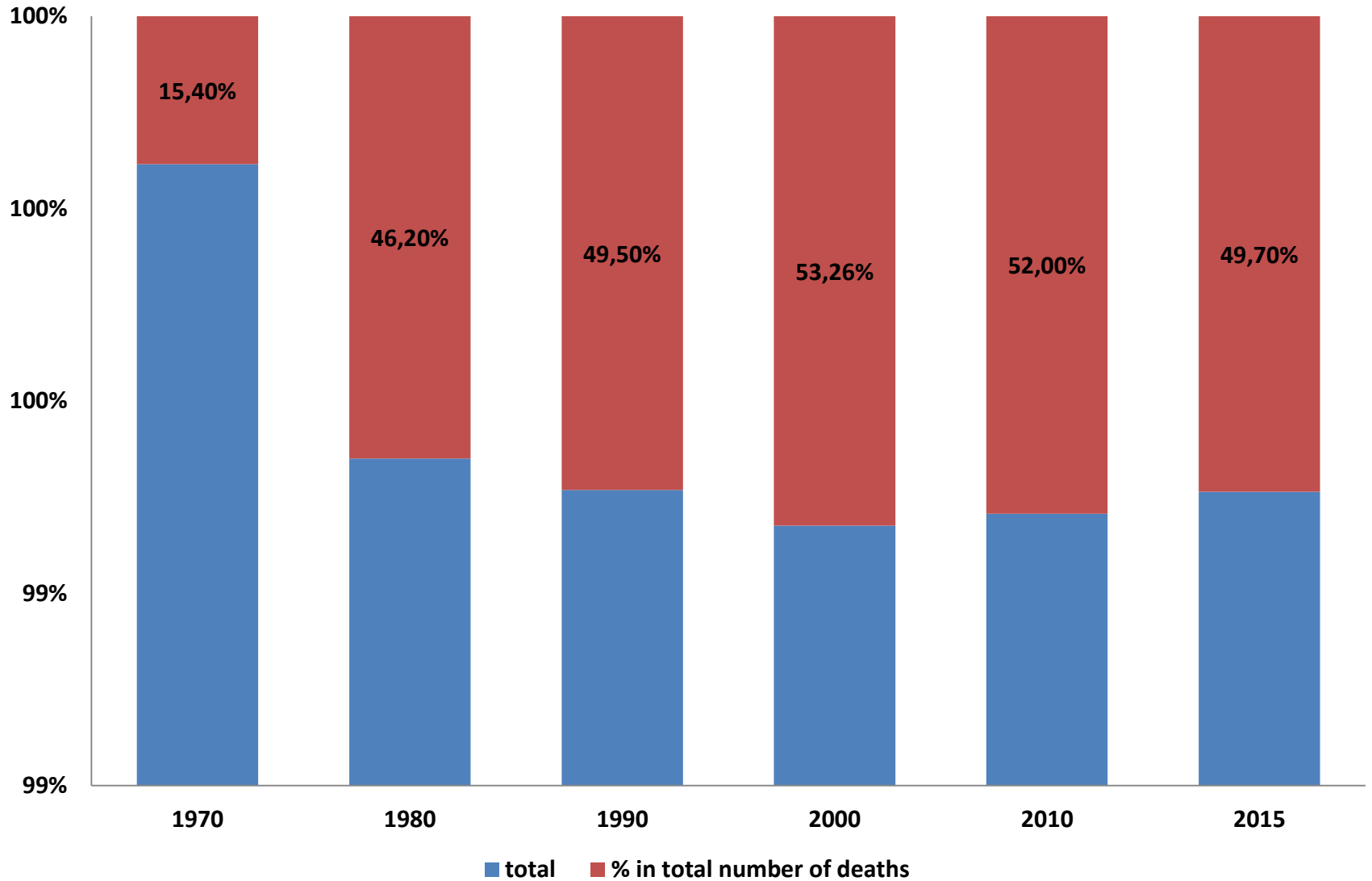
Number of deaths -circulatory diseases, B&H, 1970-2015.



Deaths rate WHO European Region
313,74 (2015.)

Deaths rate B&H (uSDR)
537,13 (2015.)

Proportion of deaths from circulatory diseases, B&H, 1970-2015.



Discussion

- **Nowadays, the causes of diseases and death are shifted from communicable diseases to chronic diseases what explains the global health transition in the world**

Discussion

- **The mortality rates from malignant neoplasm, endocrine and circulatory diseases continuously increase in B&H in the period 1970-2015.**

Conclusion

- **Epidemiological transition is strongly recognized in B&H**
- **Apart from the regular health statistic data, it is necessary to conducted research on the risk factors in the emergence of these diseases in order to monitor the trends and make predictions that would be the basis for the adoption and implementation of health policies**

- *Source of data*

**1. Agency for Statistics of
Bosnia and Herzegovina**

**2. Institute for Statistics of the Federation of
Bosnia and Herzegovina**

3. The Republika Srpska Institute of Statistics

4. HFA DB WHO EURO



Agencija za statistiku Bosne i Hercegovine
Агенција за статистику Босне и Херцеговине
Agency for Statistics of Bosnia and Herzegovina