

AMPLITUDE AND CHARACTERISTICS OF DEATHS BY WORK ACCIDENTS IN SIBIU COUNTY DURING 2005-2014

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Keywords: accidents, death

Abstract: The article presents a study on the identification and quantification of forensic issues secondary to work accidents in the deceased in Sibiu County during 2005-2014. The following parameters were followed: gender, age, area of origin of the deceased, the distribution of the annual deaths.

Cuvinte cheie: accident de muncă, deces

Rezumat: Articolul prezintă un studiu privind identificarea și cuantificarea problematicii medico-legale secundare accidentului de muncă la persoanele decedate în județul Sibiu în perioada 2005-2014. Parametrii urmăriți au fost: sex, vârsta, mediul de proveniență al persoanelor decedate, repartitia anuală a deceselor.

INTRODUCTION

Working hypothesis

Death from work accidents is a global problem that affects all sectors of society. By frequency, severity and problems of diagnosis, treatment and prevention, it represents one of the priorities of the modern medicine in the developed countries.(1,2,3)

In this article, I aimed at the dynamic assessment of the incidence and clinical and epidemiological characteristics of the deceased in workplace accidents in Sibiu County over the last 15 years.

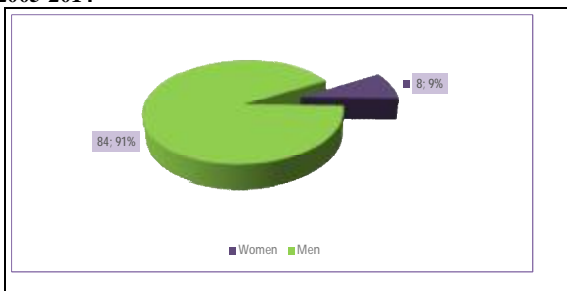
METHODS

The method used is an observational study based on a retrospective longitudinal survey with the full research of the study material during 2005-2014. The study material is represented by a total of 92 deaths from occupational accidents in the detected period.

The data underlying this research belong to the archives of Labour Inspectorate of Sibiu and Sibiu archives of the Forensic Service.

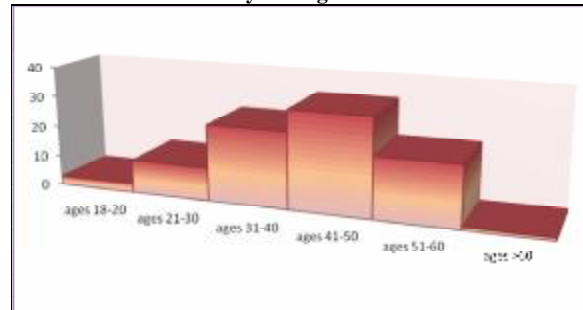
RESULTS AND DISCUSSIONS

Figure no. 1. Gender distribution of deaths by work accidents recorded and necropsied in Sibiu County during 2005-2014



Many specialized studies (4,5,6,7) show that a majority of people involved in work accidents are men. In this context, the present study observed a clear predominance of males - 90% of deaths.

Figure no. 2. Age group distribution of deaths by work accidents in Sibiu County during 2005-2014



More than two thirds of the forensic autopsies of the registered work accidents refer to persons aged 31 to 60 years old, with a peak in the middle of this period appropriate for the age group 41-50 years old.

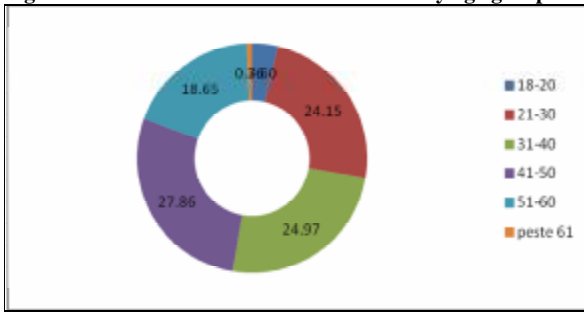
Table no. 1. Distribution of fatal and non fatal work accidents by age groups

Age	Number of accidents	Total accidents percentage (%)
18-20 years	33	3.60
21-30 years	222	24.15
31-40 years	229	24.97
41-50 years	255	27.86
51-60 years	171	18.65
over 61 years	7	0.76
Total	917	100.00

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 Article received on 20.07.2014 and accepted for publication on 22.08.2014
 ACTA MEDICA TRANSILVANICA September 2014;2(3):327-328

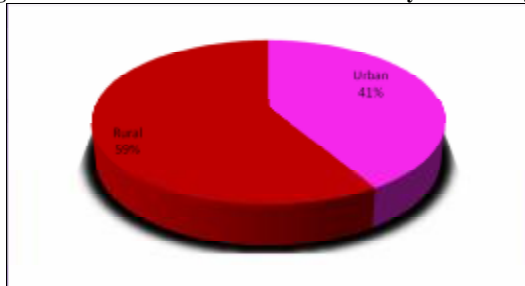
CLINICAL ASPECTS

Figure no. 3. Distribution of fatal accidents by age groups



Surprisingly, the age at which most fatal and non fatal work accidents were recorded is the age group of 41-50 years old, which included persons with experience and seniority, and not the age groups of 18-20 years old and 21-30 years old, inexperienced age groups with less seniority.

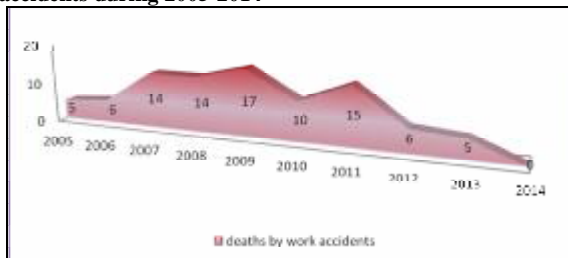
Figure no. 4. Distribution of fatal accidents by area of origin



59% of all victims of work accidents came from rural areas, contrary to the low industrialization if compared to the urban one.

Figure no. 5 shows a decrease in the number of deaths by work accidents in 2012-2014 and 2005-2006. In the period 2007-2011, the number of deaths from work accidents has been steadily increased by small fluctuations.

Figure no. 5. Distribution of annual deaths from work accidents during 2005-2014



CONCLUSIONS

1. Majority of people dead in work accidents were male (90%).
2. Deaths from work accidents occur mainly in the age group of 41-50 years old.
3. Frequency of deaths of work accidents is higher in the rural areas.
4. There has been observed a decrease in the last two years of the number of accidents at a level similar to that of the first two years from the beginning of the study.

REFERENCES

1. Dermengiu, D. Patologie medico-legală, Editura Viața Medicală Românească, București; 2002.

2. Morar S. Medicină Legală – Curs, Ed. Universității Lucian Blaga Sibiu; 2006.
3. Beliș V. Tratat de medicină legală, Editura Medicală, București; 1995.
4. Rusu MI. Considerații cu privire la atribuțiile serviciilor de protecție a victimelor și reintegrare socială – Conferința internațională „ Statul și dreptul – Mutații instituționale ” 2-3 iunie 2006 Sibiu.
5. Health and Safety Annual Statistics report for Great Britain 2012-2013
<http://www.hse.gov.uk/statistics/overall/hssh1213.pdf>.
6. Health and Safety Annual Statistics report for Great Britain Work and place injury- all industries, 2012-2013
<http://www.hse.gov.uk/statistics/causinj/index.htm>.
7. Wang Y, Olsen L: Work place death drop- but not in Oil industry, Houston Chronicle article; 2013.