904 SILICOSIS MORBIDITY ASPECTS IN THE CLINIC OF OCCUPATIONAL MEDICINE TIMISOARA

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Introduction Silicosis, one of the oldest occupational diseases, present until recently in the occupational diseases top, was replaced by the overstraining diseases. In Romania, it remains on the second place in the occupational diseases hierarchy, a number of 203 new cases of silicosis being registered in 2012, as opposed to 263 cases of musculoskeletal disorders registered on the first position. In comparison to 428 cases in 2003, the number of new cases of silicosis was reduced almost by half in 2012.

Goal To analyse the silicosis cases hospitalized in the Occupational Medicine Clinic in Timisoara for a period of five years. **Material and methods** We collected the data from the clinical medical records of silicosis patients who were hospitalized in our clinic between 2008 and 2012. We took into consideration the following parameters: profession, age, exposure time to silica dust, ILO codification, spirometry test, biological status, associated pathology, complications and evolution.

Results and discussions The studied group contained 346 patients, which represented 50.07% of occupational respiratory cases, but only 13% of all hospitalized patients. Average time of exposure was 23.79 ± 7.97 years, and average age was 53.14 ± 9.31 years old. 38.43% represented the new cases which were signaled as professional diseases, but only 73.68% were declared as occupational ones. According to the ILO classification, when diagnosed, 28.81% of patients had small opacities which represented a second category of profusion. Few patients (7%) associated other pathologies such as tuberculosis, anthracosis, siderosis, but also, many of them had musculoskeletal (62.01%) and cardiovascular (54.23%) diseases. We have to mention 3 cases of silicosis associated with autoimmune diseases: lupus erythematosus, rheumatoid polyarthritis.

Conclusions Although the occurrence is low, because of the disappearance of workplaces with exposure to silica (mines, foundries), occupational medicine services must keep under surveillance these workers throughout their lifetime. We have to be aware of the cancer risk and at the same time it is important for them to have a healthy lifestyle. Also, it is mandatory to include these patients in monitoring and rehabilitation programmes.

1234 SILICOSIS TRENDS IN CLUJ-NAPOCA, ROMANIA OVER 35 YEARS OF EXPERIENCE

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Introduction Occupational Health Unit of the Cluj-Napoca Emergency General County Hospital has a long and strong

experience in diagnosing occupational lung disease and especially in diagnosing pneumoconiosis according to International Labour Organisation (ILO) classification. This study retrospectively searched for trends in characteristics of new silicosis cases reported by this unit over more than 35 years of activity.

Methods We reviewed medical records of all new cases of silicosis identified between 1980–1985 (93 subjects – group I), 2000–2005 (62 subjects – group II) and 2011–2016 (60 subjects, group III). We compared for each group their mean age at diagnosis, gender distribution, smoking habit, type of industry as source of exposure to mineral dust, radiological findings (according to ILO Classification of Radiographs of Pneumoconiosis), pulmonary function tests (PFT).

Results Mean age at diagnosis for the last group (57.15 years) compared to the other two (group I – 51.87 and group II – 52.24 years); sex distribution: females for the last two groups (16.12% group II and 5% group III compared to 0 cases in group I). The vast majority of patients in group I (97%) were from mining industry; in group II mining was represented by only 38% of patients, while foundries took the lead by 52% and some other industries were responsible for 10% cases, distribution remaining the same in group III (40% mining industry, 41.66% – foundries and 18.33% other industries). A slight increase in group III was found in smoking habit prevalence (58% – group I, 55% – group II and 65% – group III current or ex-smokers). The most important data regarded opacities profusion and size on radiographs and pulmonary function tests results. If in group I we found a fairly even distribution for profusions (23%–1, 26%–2, 16%–3), radiographs with axe symbol (13%) and with large opacities (22%), in group II and III profusion 1 was predominant (68% and 40%) and profusion 2 (19% and 36.66%) was also significant. On the other hand, in group I restrictive pattern at PFT was in the first place (42%) and obstructive pattern in group II (52%). In group III ventilatory defects were less frequent (28.33% obstructive and just 6.66% restrictive).

Conclusion Our results suggest significant changes in silicosis pattern in studied population. Age for first diagnosis tends to increase, radiological findings are less severe and pulmonary dysfunctions are less frequent. All these changes might be explained by a major shift in job exposure suggested by a decrease in mining activities and increase for other industries, especially foundries in our area of research.

1113 PLEURAL PLAQUES: MARKERS OF ASBESTOS EXPOSURE OR INDEPENDENT RISK FACTOR FOR PLEURAL MESOTHELIOMA? A CASE REPORT

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Pleural plaques (PPs) represent the most common non malignant asbestos-related disease. Currently PPs are widely referred as a marker of asbestos exposure and not as an independent