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Retrospective assessment of central nervous system tumors underwent neurological and neurosurgical care at Clinical Hospital Centre Osijek during 2015

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Background: Central nervous system (CNS) tumors represent a major public health problem, and their epidemiological data in Croatia have been rather incomplete except for some regional reports. There are no available frequency-based data on CNS tumors in our locality.

Aim: The aim of this study was to estimate the frequency of CNS tumors in Clinical Hospital Centre Osijek.

Methods: The data were collected during 2015 from Clinic for Neurology, Clinic for Neurosurgery and Department of Pathology and Forensic Medicine. We analyzed data on 139 patients (64 men and 75 women), diagnosed with CNS tumors according to the World Health Organization's diagnostic criteria.

Results: The commonest type of all tumors was primary tumors of the CNS (48.92%) in relation to metastases (33.09%) and tumors of unknown diagnosis (17.99%). When only primary tumors were analyzed, the commonest types were meningioma (44.12%) and glioblastoma (33.82%). The remaining types were much less frequent: cavernoma (10.29%), haemangioma (5.88%), neurinoma (4.42%) and medulloblastoma (1.47%). The most common tumors in women were meningioma (28.00%) and in man glioblastoma (18.75%).

Conclusion: These results suggest a commonly encountered epidemiological profile in the region, with commonest primary tumors, and meningioma and glioblastoma as the most common brain tumors.

Biography

Anamarija Soldo Koruga is a Professor and a research advisor at Faculty of Medicine, Josip Juraj Strossmayer University of Osijek. Her area of scientific interest is biomedicine and health care and obtained specialization in Neurology. She has published so many scientific papers and more than 40 scientific papers indexed in CC/SCI.

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