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47. DANI PREVENTIVNE MEDICINE**

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4. ODREĐIVANJE NEKIH ZDRAVSTVENIH INDIKATORA VODE ZA PIĆE U CILJU
PROCENE HEMIJSKE ISPRAVNOSTI VODE ZA PIĆE U MAKEDONIJI
**4. DETERMINATION OF SOME POTABLE WATER INDICATORS IN
EVALUATION OF CHEMICAL SAFETY OF POTABLE WATER IN REPUBLIC OF
MACEDONIA**

Vesna. Kostić, Memeti Sh., Hamiti L.

Institute for Public Health, Skopje, Republic of Macedonia

Physical and chemical drinking water indicators provide baseline information for water quality and help identify trends or changes in water quality over time.

The main goal of this study is determination of some physical and chemical parameters in potable water in the Republic of Macedonia in order to make physical and chemical safety evaluation of potable water which is distributed to the consumers.

The study included a total of 518 samples of potable water from different supply systems for the period from October 2010 to May 2013. Samples were tested on 64 parameters. Assessment was made according to national Regulation for Water Safety (Official number 46/08).

Testing of all water samples was performed on the content of: routine components; major inorganic components; trace metals and pesticides. The obtained results showed that the percentage of the non-compliant samples was within the range from 12.09 % for samples from central city water supply systems to 33.33 % for samples from central rural water supply systems. In the majority of non-compliant samples the content of iron, manganese; arsenic turbidity, conductivity and PIV oxidisability was above established MRL-s.

The results showed that 19.85 % from 518 tested samples were non-compliant and therefore unsafe for human consumption.

Keywords: chemical indicators, routine components, major inorganic components, water supply system