

Abstract

This literature review based on recent works, deals with surface water above all river water, focusing on occurrence and detected concentration of pharmaceuticals. Targeted substances were selected according to four moulds: consumption in the Czech Republic - Nonsteroidal anti-inflammatory drugs, resistance in the environment – antiepileptic carbamazepin, possible environmental risks – estrogens and according to published findings of these drugs. The occurrence of pharmaceuticals was not only note in the surface water but in the drinking water too. Through this review, it appears that the pharmaceutical risk must be considered.

Key words: PPCPs, pharmaceuticals, surface water, NSAIDs, carbamazepin, estrogens