Chronic effect due to changes in the contents of urea & creatinine in edible cat fish *Channa punctatus* (Bloch), under the stress of sub lethal concentration of methyl parathion – a pesticide

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Abstract

The chronic effect of methyl parathion on cat fish *Channa punctatus* was observed by comparing the amount of urea & creatinine in the bio chemical blood plasma profile of a control group & a group exposed to methyl parathion pesticide, in sub lethal concentration. Lc50 value of fish was found 35µg/l. During the study it was found that the amount of urea in the experimental fish was increased upto alarming level, although the creatinine concentration increased gradually. As such fish food is consumed by the non target organisms & more specifically by the human being, its consumption usually results in the development of such symptoms, which are not mentioned in in the routine literature.

Keywords: Methyl parathion, Channa punctatus, Urea, Creatinine, Human being