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Occurrence of *Vibrio cholerae* in fish and water from a reservoir and a neighboring channel in Ouagadougou, Burkina Faso

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Introduction: *Vibrio cholerae* is a human pathogen and natural inhabitant of aquatic environments. In this study we surveyed the occurrence of *V. cholerae* in fish harvested from a reservoir Barrage de Tanghin in Ouagadougou, water of which is increasingly used for fishing and for irrigation of vegetables. The water is of poor quality, because several channels convey municipality's discharges directly to the reservoir.

Methodology: A total of 238 fish (*Oreochromis niloticus*), 25 samples of reservoir water and 55 samples of channel water were analyzed for the presence of *V. cholerae*.

Results: Altogether, 13 *V. cholerae* strains were isolated from the fish (from 5% of the samples), 1 (4%) from the reservoir water and 4 (7%) from the channel water. All the strains were identified as non-O1/non-O139 *V. cholerae* and they did not possess the Cholera Toxin-encoding *ctxA* gene. The antimicrobial susceptibility testing showed that the strains were in general susceptible but approximately half of them were resistant to ampicillin.

Conclusion: Although no strains of epidemic *V. cholerae* serotypes were encountered, it would be important to monitor the microbiological quality of this extensively used water resource and its products for vibrios as well as for other enteropathogenic bacteria.

Biography

Oumar Traore is doing his PhD at the age of 35 years at the University of Ouagadougou and is an Office Worker as Microbiologist at National Laboratory of Public Health and work on the field of water quality. He has one publication and one submitted in reputed journals and still writing manuscripts for submission. He participated in different international meeting. He supervised master students and trainee from the National School of Public Health.

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