



ID der Kurzfassung : 519

Évaluation of the effects of wastewater on the proliferation of waterborne bacterial diseases in the Olezoa stream.

Inhalt

A study aimed at evaluating the impact of black water in the aquatic environment and on the proliferation of water-borne diseases was carried out in the Olézoa stream, during the period from April to September 2020. In this context, One Health approach emerges as a relevant conceptual framework for understanding the resurgence of these disease and the interactions between the different compartments (aquatic environment and human population) in order to assess the overall infectious risk. The survey carried out among the local population showed that the use of water resources of Olezoa watercourse is responsible in humans for amoebic and bacillary dysentery, typhoid and paratyphoid fevers requiring expensive treatment, ranging from 7,500 to 18,500 FCFA per month. These waters harbor BHAMs; Fecal Coliforms; Fecal Streptococci whose abundances have varied between 6 to 4.56; 0 to 3.42 and from 0 to 4.39 units log CFU/100 ml respectively; the monthly abundances of these bacteria undergo spatio-temporal fluctuations. In addition, they harbor pathogenic bacteria such as V. Cholerae and Salmonella Typhi among others whose abundances vary between 0 to 4.03 and from 0 to 2.88 units log CFU / 100ml respectively.

The black water discharged without prior treatment increases the proliferation of water-borne diseases and makes the rivers unfit for all consumption.

Keywords

Black water, water-borne diseases, abiotic variables, stream Olezoa, One Health.

Registration ID

OHS26-15

Professional Status of the Speaker

PhD Student

Junior Scientist Status

Yes, I am a Junior Scientist.

Autor: Herr FOU DA NGONO BELIBI, Raphaël Dieudonné Laurent (University of Yaounde 1)

Co-Autor: Dr. ZEBAZE, Serge (University of Yaoundé 1)

Vortragende(r): Herr FOU DA NGONO BELIBI, Raphaël Dieudonné Laurent (University of Yaounde 1)

Track Klassifizierung: Public Health

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Kommentare:

Je souhaiterais obtenir une lettre d'invitation pour faciliter ma procédure d'obtention de visa et si possible avoir une subvention pour supporter l'achat des billets d'avion allée - retour Cameroun - Allemagne.

Eingereicht von **FOUDA NGONO BELIBI, Raphaël Dieudonné Laurent** <rfoudabelibi@gmail.com>
am **Montag, 29. Juni 2026**