

## **Geographical Information System, Bayesian Geostatistics and Co-spatial Distribution of Schistosomiasis and Soil Transmitted Helminthiasis in Nigeria (Senior Fellowship: Dr. Uwemedimo Ekpo)**

Initiative: Wissen für morgen – Kooperative Forschungsvorhaben im subsaharischen Afrika (beendet)

Ausschreibung: Postdoc-Fellowship-Programm "Neglected Communicable Diseases and Related Public Health Research"

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Nigeria has the highest African burden of schistosomiasis and soil transmitted helminthiasis (STH). Modelling studies on the geospatial distribution of schistosomiasis, STH and other neglected tropical diseases (NTDs) are becoming increasingly useful, with global risk mapping databases for intervention and control. The proposed project will build on the successes of schistosomiasis database (<http://www.gntd.org>) to develop a similar database for STH to delineate and predict areas of co-spatial distribution for integrated control. With the increasing international support to control schistosomiasis and STH infections, co-infection risk maps would be invaluable for the country's control programme in the face of limited resources. The project will collate available STH epidemiological data, conduct new surveys, use environmental and socio-economic data and Bayesian geostatistical methods within GIS to assess changes in disease co-distribution over time and space and estimate treatment cost at implementation level. The project will help to accelerate the Nigerian schistosomiasis/STH control programme to bring treatment to population in need.

### **Projektbeteiligte**

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