Climatic and sociodemographic factors predisposing to schistosomiasis in Kaedi (Mauritanie) and Korhogo (Côte d'Ivoire)

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Develop sustainable strategies for

Develop economic activities during for rainy and dry season

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Dominique, B. (2005). "Conditions climatiques et maladies vectorielles." <u>Environmenter Bisques & Santil 4(2)</u> Santil 4(2) Santil 4(2

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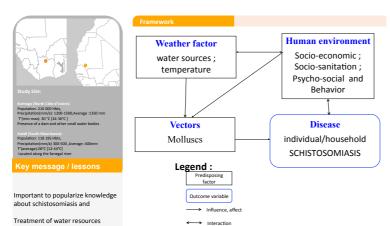


Figure 1: Conceptual framework predisposing factors for schistosomiasis

Data were collected during the dry and rainy season in Korhogo and Kaedi from may 2014 to june 2015

The chi-square test were used to compare the factors of the 2 cities and Fisher's exact test was used if the chi-square test was not appropriate. Thereafter, one-way analysis of variance was used to compared

Statistical analysis was performed with the SPSS statistics 20 and Stata/IC 10

Figure 2 : Household activity in the river Senegal, Dry season Kaedi, Mauritanie

On the whole, there is no association between the seasons and schistosomiasis prevalence in univariate analysis, however there is a SS difference between the seasons and the disease when stratified analysis by otyl 9 o 10.5 I. in Kaedi, prevalence is higher during dry season than rainy season conversly, in Korhogo (south of the Sahelian band) it is the inverse (p <0.05).

At the two clies, the average age of patients was 10,7 years ± 3,03 years; and most vulnerable are young boys 10 years-old-aged and more in Kaedi especially in the dry season. During rainy season, in korhogo, young pirts are more vulnerable than boys and inversely to Kaedi (p <0.05). The dry season analysis shows different results. Indeed, boys are more exposed in korhogo and Kaedi but difference is not SS

→ ECONOMIC:

Households members with no activities or retired get more sick children (NS). During the rainy season in Kaedi, health expenditures of affected households represent 14% of the whole expenditures versus 21% in Korhogo

Demographically, the most numerous are the most vulnerable households. There is a statistically significant difference in the season is both cities. The average of household size is higher in rainy season that of yeason in both cities. The most vulnerable households are those with high inhabitant

→Behavior: →In households where there are ill persons, a high proportion of women enrolled in the dry season use mostly water points especially in Kaedi (P <0.05), there are around 7 out of 10 women. In Korhogo, it is 3 over 10 women (P> 0.05).

▶ Resilience: In general, Kaédi households are more resilient than those of Korhogo (46.2% vs 41.7%) but NS except in dry season where the difference is SS (Kaédi 56.5% vs. 47.5% Korhogo). Among households with at least one patient, the resilience against the disease did not differ statistically between the seasons and cities, but the gap remains non SS.

Rainy season
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Average age sick person is 10.7 ± 3.03 years* more vulnerable are Young boys of 10 to 15 years Young boys are more vulnerable vulnerable No statistically
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