Schistosomiasis control in Borgu Kingdom, Niger state, Nigeria.

Presenter: Paul O. Fregene  Ph.D.
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Schistosomiasis

- Second most prevalent human parasite after malaria.
- Over the last 50 years, distribution of Schistosomiasis has changed but number of infections has not been reduced.
- 200 million people are infected worldwide; 800 million are at risk of infection
- 85% of infections are in Africa
- Neglected Tropical Disease (NTD)
Global Distribution of Schistosomiasis
A symptom of Schistosomiasis: blood in the urine aka "Terminal haematobium" in a young schistosomiasis victim.
Methods of Control

• Cure — Chemotherapy (Praziquantel)
• Prevention
  • Health Education
  • Water Supply Sanitation
  • Snail Control
Methodology

• **TIMEFRAME:** Jul 7 – Jul 16, 2011

• **DATA COLLECTION:** Questionnaires were administered

• **DATA ANALYSIS:** ESRI, ARCGIS 10.2
Geographic Location

Nigeria
Niger State
Borgu Province

our final destination …

46% of inhabitants are infected with Schistosomiasis!
The Cause

…the daming of the Niger river triggers the proliferation of the parasite Bilharzia (aka Schistosoma)
Borgu Villages, Gender

Legend
Population Sample (Male)
- 0
- 1 - 27
- 28 - 55
- 56 - 73
- 74 - 571

Legend
Population Sample (Female)
- 0 - 11
- 12 - 25
- 26 - 45
- 46 - 72
- 73 - 487

Borgu Villages Population Sampled by Gender (Male)

Borgu Villages Population Sampled by Gender (Female)
Borgu Villages, Males Sampled with Blood in Urine
Borgu Villages, Females Sampled with Blood in Urine
Borgu Villages, Males Sampled with Blood in Stool

Legend
Population Sample (Male)
Blood in Stool %
- 0
- 1 - 19
- 20 - 35
- 36 - 45
- 46 - 55

Sampled males with blood in stool
%
- 0
- 1 - 25
- 26 - 50
- 51 - 75
- 76 - 100

National Park
Forest Reserve

BENIN

Male Villages Population Sampled with Blood in Stool Percentage
Borgu Villages, Males Sampled with Blood in Stool.
Sampled Villages with Blood in Stool & Urine, Gender.
Summary

• Over 1700 people screened and cured of Schistosomiasis in Borgu province, Nigeria

• The fact that 66% of the male and 42% of the female population sampled saw blood in their urine may confirm the prevalence of Schistosomiasis in the region.

• Health survey conducted in 10 communities was used to develop a disease map that will educate future medical interventions in the area.

• While 416 communities still need to be mapped for Schistosomiasis, this study should serve as preliminary survey.
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Contact Information

- Paul O. Fregene  Ph.D.
  Grace Outreach Coalition
  P O Box 2633
  Merced CA 95348
  Tel: 607-7612722
  Email: pfregene@goc2015.org
  Http://www.goc2015.org