St. John Fisher College **Fisher Digital Publications**

Pharmacy Faculty Publications

Wegmans School of Pharmacy

2012

Acute Clinical Conditions of School-Aged Children in a Rural Kenyan Community

Nicolle A. Koester St. John Fisher College

Karen M. Parker St. John Fisher College, kparker@sjfc.edu

Vivian Cunningham St. John Fisher College, vcunningham@sjfc.edu

Christine R. Birnie St. John Fisher College, cbirnie@sjfc.edu

How has open access to Fisher Digital Publications benefited you?

Follow this and additional works at: http://fisherpub.sjfc.edu/pharmacy facpub



Part of the Nursing Commons, and the Pharmacy and Pharmaceutical Sciences Commons

Publication Information

Koester, Nicolle A.; Parker, Karen M.; Cunningham, Vivian; and Birnie, Christine R., "Acute Clinical Conditions of School-Aged Children in a Rural Kenyan Community" (2012). Pharmacy Faculty Publications. Paper 11. http://fisherpub.sjfc.edu/pharmacy facpub/11

Please note that the Publication Information provides general citation information and may not be appropriate for your discipline. To receive help in creating a citation based on your discipline, please visit http://libguides.sjfc.edu/citations.

This document is posted at http://fisherpub.sjfc.edu/pharmacy facpub/11 and is brought to you for free and open access by Fisher Digital Publications at St. John Fisher College. For more information, please contact fisherpub@sjfc.edu.

Acute Clinical Conditions of School-Aged Children in a Rural Kenyan Community

Disciplines

Nursing | Pharmacy and Pharmaceutical Sciences

Comments

Poster presented at Faculty Scholarship Celebration, St. John Fisher College, October 25, 2012.

To view the Building Futures-Building Health video, click here.



Acute Clinical Conditions of School-Aged Children In a Rural Kenyan Community

Nicolle A. Koester*, Karen M. Parker*, Vivian Cunningham* and Christine R. Birnie*

St. John Fisher College, Wegmans School of Pharmacy* and Wegmans School of Nursing*, Rochester, NY



Objective

To better prepare future mission outreaches to rural Kenyan villages by providing information regarding common acute ailments.

Introduction

Each year the number of people who participate in short term mission trips sharply increases. In 2004, it was reported that at least four million short-term mission trip participants were being sent out on a yearly basis. For the last three years, St. John Fisher College has been organizing and implementing a medical mission trip to a rural village in Kenya, Africa.

In May 2011, a team comprised of 19 health practitioners and students participated in a two week mission. This project served as part of an elective advanced practice experience for a fourth year pharmacy student. The team conducted a one day outpatient clinic in Maseno, which is located in a western province of Kenya. School children and local Kenyans living around the Mbaka Oromo Primary school were observed and treated if necessary at this clinic.

According to current published statistics, approximately half of all deaths caused by infectious diseases in third world countries can be attributed to tuberculosis, malaria and AIDS.² During our mission clinic, we observed the most common acute ailments in the local Kenyan people.

Mission trips provide a great opportunity for pharmacy students to encounter and interact with patients of different ethnicities, languages, socioeconomic statuses, cultures and education levels. The skills learned prior to and during these short-term missions are applicable to a pharmacists everyday job in their own communities. These trips open many doors and allow students to step out of their comfort zone which is the best way to improve skills that can be used on a day to day basis.

Methods

- An outpatient clinic in Maseno, Kenya primarily focused on treating school-aged children was conducted by a team of health professionals from the United States.
- Individual patient treatment cards were prepared for each patient that attended the clinic to include:
 - Age
 - ·Height & Weight
 - Chief Complaint
 - Physical Exam Findings
 - Diagnosis
 - Treatment
- Upon return to the United States, patient treatment cards were compiled and analyzed to determine the most common acute clinical conditions.
- Chronic diseases such as HIV, diabetes and hypertension were not addressed at this ambulatory clinic.

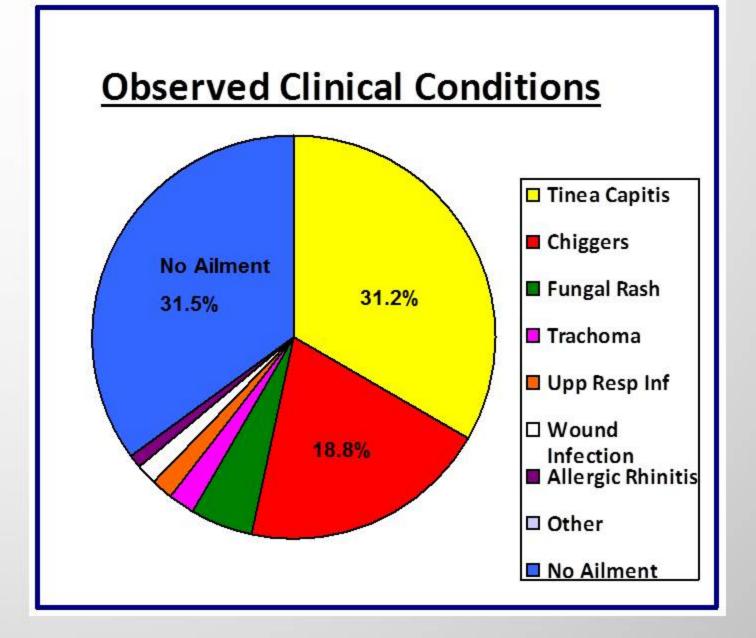


multivitamin



Results

- A one-day outpatient clinic was conducted by a team of 19 health professionals and students from St. John Fisher College, including two pharmacy students.
- Four hundred and eighty-nine patients were seen at the clinic
- The two most common clinical conditions observed at the clinic were tinea capitis and chiggers.
- Remaining clinical conditions included fungal rash, trachoma, upper respiratory infection, would infection, arthritis, allergic rhinitis, otitis media, gastroenteritis, thrush, strep pharyngitis, allergic conjunctivitis and urinary tract infection.



Clinical Conditions	Prevalence (%)
Tinea Capitis	31.2%
Chiggers	18.8%
Fungal Rash	4.7%
Trachoma	2.2%
Upper Respiratory Infection	1.6%
Wound Infection	1.4%
Arthritis	1.4%
Allergic Rhinitis	1.2%

Conclusions

Pharmacists have a unique opportunity to help the people in third world countries by participating in medical mission trips. By collecting data at the clinic regarding commonly observed acute ailments, future missions to rural Kenya will have greater insight regarding what to expect when working at these clinics. As a result, health care students and professionals conducting futures mission trips to Kenya will be more prepared to treat the most common ailments present in the region.

<u>Acknowledgements</u>

The authors wish to thank every participant of this medical mission for their hard work and contributions to the data collection section of this project.

References:

- Peterson, Roger. "What's Happening in Short-term Mission?" <u>Innovation in Mission</u>, Authentic. Waynesboro, GA. 2006.
- ² "Common Infectious Diseases Worldwide" The Centers for Disease Control, The World Health Organization. Pearson Education Inc. 2007.