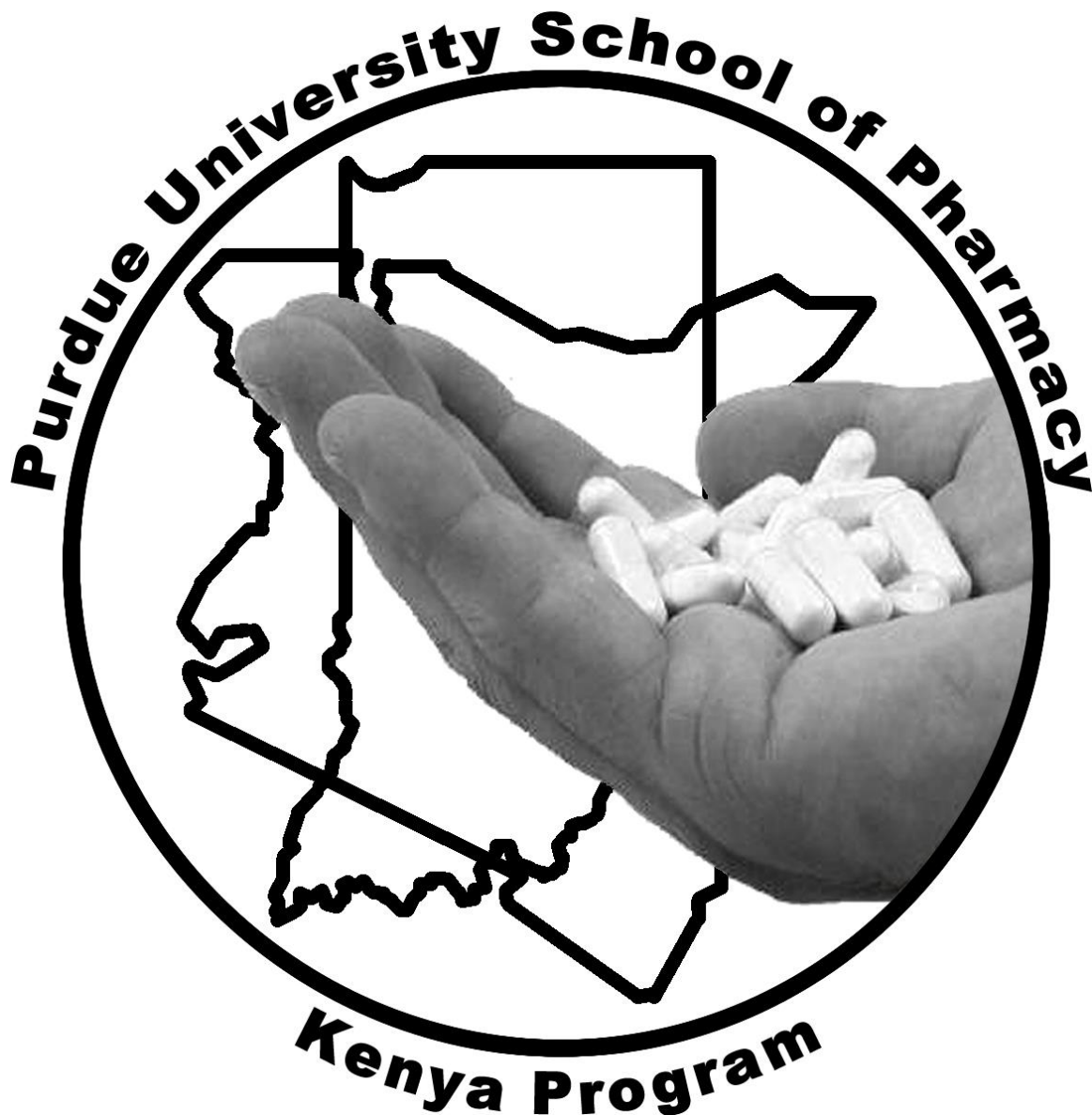


# Rotation Site Opportunities and Expectations 2013-2014



## **MTRH/AMPATH Pharmacy Student Rotation Sites**

The following document describes the many potential rotation sites and opportunities for students/interns during their MTRH/AMPATH rotation experience. The primary focus of the rotation will be on the practice of inpatient clinical pharmacy (Nyayo Wards). At the same time, all students will complete a longitudinal experience where they practice at a variety of outpatient clinics throughout Western Kenya. We highly encourage students to review this document to identify any of the additional opportunities or experiences they want to experience to enable program staff to schedule these activities.

Students are expected to become proficient in all of the listed student responsibilities for each rotation site. By the end of the rotation, students are expected to be become independently functioning members of the pharmacy staff in the different practice settings they will be exposed to. A student, who does not demonstrate appropriate progress in developing the skills to perform these tasks or those who do not adhere to the listed responsibilities, will be removed entirely from the internship or re-allocated to a dispensing role within MTRH. **The leadership of this clinical pharmacy training program retains the right to cancel the rotation at any time for students.**

Students/Interns will also be expected to take part in longitudinal research /administrative /or care projects throughout the experience. It is expected that students will publish their results and collaborate with each other to complete successful projects.

Please note: The primary contact person for rotation activities is Rakhi Karwa. [rkarwa@purdue.edu](mailto:rkarwa@purdue.edu) or [rakhikarwa@gmail.com](mailto:rakhikarwa@gmail.com) (+254 713 578 218).

### **Inpatient Clinical Pharmacy Rotation**

During the adult inpatient internal medicine rotation students will conduct patient rounds on an interdisciplinary team. Teams consist of consultants (attendings), registrars (residents), medical interns, and medical students from Kenya and the U.S. Students will have the opportunity to gain experience in a variety of disease states, including both communicable (ie. HIV, malaria, etc.) and non-communicable (ie. Diabetes, stroke, etc.) diseases.

Students will spend 4 – 5 days rounding on their adult inpatient rotation in order to maintain a sustainable pharmacy service.

Nyayo wards-adult wards are composed of two separate wards:

- 1) Ward 1 - Female adult ward (Umoja-unity)
- 2) Ward 2 - Male adult ward (Amani-peace)

### Responsibilities/Expectations:

- 1) Record all pertinent patient information during rounds, pre-rounds and post-rounds on the approved monitoring sheets to effectively present patients to the preceptors in the afternoon. The accurate and thorough completion of these forms is required to improve patient care. Faculty will periodically check patient monitoring sheets in the binders to ensure accuracy and thorough patient care.
- 2) Drug availability checklist: Students are responsible for maintaining the list with the help of the Nyayo Wards pharmacy. The students should coordinate with each other to ensure that each person has an accurate list prior to rounds. The list is to be used during rounds to avoid prescribing medications that are out of stock. Review the availability list from the inpatient Nyayo ward pharmacy in the afternoon and resolve all out of stock medication issues.
- 3) Medication reconciliation: Students are expected to obtain a list of home medications for patients and to reconcile them upon admission and discharge so that the transition from admission to discharge is easier for patients.
- 4) Students must ensure all prescribed medications are being administered to patients by checking T-sheets and questioning nurses.
- 5) Students may opt to carry the "treatment sheets (T-sheets)" during rounds for the team to help facilitate enhanced monitoring of therapy for the team.
- 6) Serve as a drug information resource for all questions from the team
- 7) Recommend medication therapies and appropriate dosing
- 8) Ensure that all patients requiring anticoagulation are enrolled by the anticoagulation clinic staff. This can be done by making sure that the referral forms are filled by the physician and passed on to the anticoagulation clinic staff preferably before patients are started on warfarin
- 9) Diabetic counseling: Students are expected to provide counseling to diabetic patients concerning diet, signs and symptoms of hypoglycemia, and proper use of insulin.
- 10) Obtain HIV medications for AMPATH clients whenever necessary.
- 11) Obtain Amphotericin B and Fluconazole from AMPATH pharmacy when needed.
- 12) Obtain TB medications for patients whenever necessary.
- 13) Print summary sheets for AMPATH clients whenever necessary.
- 14) Students are expected to attend all case conferences, lectures, and scheduled activities promptly if they are not scheduled for activities at outside clinics.

### **Additional Opportunities:**

If interested, students may participate in clinical opportunities outside of adult Nyayo wards. Other experiences are described below.

## **Inpatient Opportunities:**

### **Pediatric Inpatient Internal Medicine:**

If faculty members are available, students may opt to rotate on the pediatric wards instead of adult medicine. If permissible, Purdue students can choose to round on the pediatric inpatient wards for a 1-week span. For Purdue students, the opportunity to round on pediatrics is entirely dependent on the availability of North American Pediatric consultants to supervise their activities and also the availability of open slots. Kenyan Interns may potentially round for longer than 1 week in the pediatric wards. Students will carry the same responsibilities in pediatrics as previously stated for adult internal medicine.

- 1) Ward 3 - Pediatric female ward (Upendo-love)
- 2) Ward 4 - Pediatric male ward (Tumaini-hope)

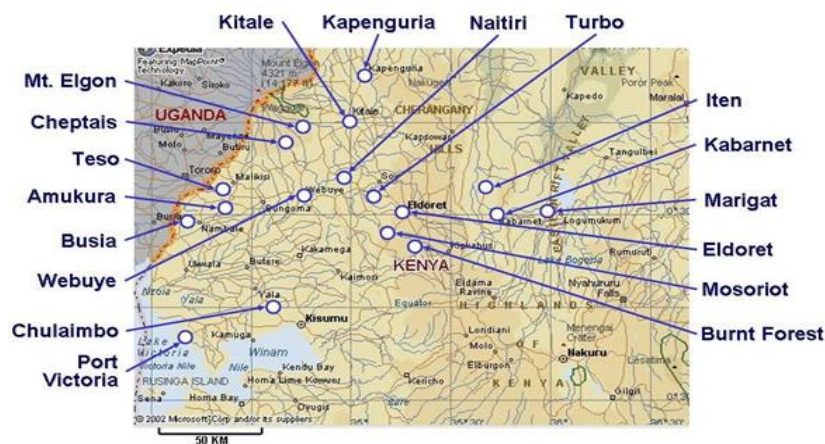
### **Mother and Baby Hospital:**

Riley Mother and Baby Hospital has been open since June 2009. Antenatal and postnatal interdisciplinary patient rounds take place at 8 am. Students will gain experience in maternal complications: preeclampsia/eclampsia, obstructed labor, sepsis, and post-partum hemorrhage. Students may be asked to help the pharmacy prepare emergency kits, which are tackle boxes used to ensure supply of medicines, gloves, catheters, and needles for obstetric emergencies. Students will carry the same responsibilities in maternal health as previously stated for adult internal medicine. If permissible, students may be able to participate at Mother and Baby Hospital for a 1-week span. This opportunity is largely determined by the availability of pharmacy staff to supervise student activities.

## **Outpatient Opportunities:**

Students may have the opportunity to participate in outpatient activities. Some activities have direct participation of pharmacy faculty. Other activities will require the students to attend clinics with IU faculty.

### **AMPATH Satellite Outpatient Clinics:**



### Satellite AMPATH clinics with scheduled faculty visits:

Each opportunity is available for 1 day.

#### **Webuye Diabetes Specialty Clinic**

*Transportation schedule:* Sonak Pastakia typically goes to this clinic every Friday. The transport usually leaves at 7:00 am. Please confirm transport for Friday on the Wednesday prior.

*Distance from Eldoret:* 1.5 hours

This is the pilot site for specialty diabetes care. Students are invited to observe diabetes care at this clinic. Spots are subject to availability.

#### **Mosoriot**

*Transportation schedule:* Wednesday 7:45 AM in front of the Mamlin's gate at IU House. Please arrive a few minutes early.

*IU physician schedule:* Dr. Joe Mamlin sees patients every Wednesday

*Distance from Eldoret:* ~45 minutes

*Pharmacy structure:* Typically staffed by two pharmacy technologists. The pharmacy is relatively spacious

*Total Patient Volume:* 3,517 (as of 7/2007)

*Pharmacy Staff:* Linet Bett, John

#### **Turbo**

*Transportation schedule:* Friday 8 AM in front of the Mamlin's gate. Please arrive a few minutes early.

*IU physician schedule:* Dr. Joe Mamlin sees patients every Friday

*Distance from Eldoret:* 60 minutes

(Students may visit additional clinic sites if they desire but planning may be difficult)

#### **Anticoagulation Clinic:**

Students are encouraged to observe the pharmacist and pharmacology technologist managed anticoagulation clinic. Students will see a variety of patient populations including, adults, children, pregnant patients, and patients in the inpatient wards. Drugs utilized include heparin, enoxaparin (clexane), and warfarin. Anticoagulation clinic regularly sees patients on Tuesdays in conjunction with the cardiology clinic. The clinic sees an average of 30 patients on Tuesday mornings. Please report to the room 48 at 9:00 AM.

#### **Hematology/Oncology Clinic**

Observe AMPATH's hematology/oncology clinic at AMPATH center on Monday morning. This includes going to tumor review board, seeing patients with the IU Heme/Onc Physician. The oncology group will often visit satellite clinics as well. Students may join in these activities as well if there is interest and

availability. Paul Wasike is the pharmacist who currently leads these activities and can be reached at 0727794592.

### **AMPATH Pharmacy**

Main pharmacy supervisor(s): Beatrice Jakait, AMPATH Pharmacy Department Head

Email address: [bjakait@yahoo.com](mailto:bjakait@yahoo.com)

Office #: 2033471/2/3 ext 3634

Mobile #: 0722603485

Location: On the ground floor of the AMPATH Center

Services provided: Outpatient

Patient population: Solely used for HIV-infected patients enrolled in AMPATH

Numerical range of patients being served per day (average): 400-1000. Average 500

Hours of Operation: Pharmacy opens promptly at 9 and closes between 5 and 6 (they will stay open until all patients are served)

Additional details: Typically busy in the afternoons as patients finish their clinic visits.

All medications are provided free of charge and all patient information is recorded electronically.

Students will be expected to profile patient information electronically into the database.

Student responsibilities/expectations:

1) Outpatient Dispensing

- a. Assist in electronic entry of prescription data into the database. Students should assist staff with learning about various aspects of computer entry of prescriptions
- b. Collecting prescription blanks from patients and preparing medications for dispensing
- c. Counseling of patients

### **Revolving Fund Pharmacies (RFP)**

Main Pharmacy Supervisors: Imran Manji, RFP Coordinator

Email address: [imranmanji@hotmail.com](mailto:imranmanji@hotmail.com)

Mobile #: 0722967480

Location: On the ground floor of the AMPATH Center, Room 19A (within Module 3)

Services provided: Outpatient

Patient population: HIV, Cardiology and mental health patients seen within AMPATH

Numerical range of patients being served per day (average): 100-200

Hours of Operation: Pharmacy opens promptly at 8.15 am and closes 4.30 pm (they will stay open until all patients are served)

Additional details: Typically busy in the afternoons as patients finish their clinic visits.

Medications are sold at a subsidized price and all patient information is recorded electronically.

Students will be expected to profile patient information electronically into the database.

Student responsibilities/expectations:

1) Outpatient Dispensing

- a. Assist in electronic entry of prescription data into the database. Students should assist staff with learning about various aspects of computer entry of prescriptions
- b. Collecting prescription blanks from patients and preparing medications for dispensing
- c. Counseling of patients

### **Non-Clinical Rotation Opportunities:**

All activities are subject to approval by faculty members. Students are encouraged to send email requests as soon as they are known.

### **Tumaini Children's Drop-in Center (TCDIC):**

Students are invited to participate in activities at the TCDIC. TCDIC serves as a center where can learn and play and get brief respite from the harsh realities of the street. The residents currently participate in activities every Friday afternoon and all students are welcomed to join in this. Tumaini also prefers that students participate in a very basic orientation prior to engaging in activities at the center.

These orientation sessions are scheduled at regular intervals by Tumaini Program Manager, Samuel Kimani. Please check with the residency coordinator to determine the times for this. Students are also allowed to set up specific activities with street kids if developed in coordination with Tumaini staff.

### **Family Preservation Initiatives:**

Students may decide to do a tour of the various Family Preservation Initiatives (Farming, Imani Workshop). Please see sign-up sheet in House 4 for opportunities to farm. Farming opportunities only occur on Mondays. Students are only allowed to schedule this for the last week of rotation. Visits to Imani workshop can easily be done by students during the week.

### **Sally Test Pediatric Daycare Center:**

Students may decide to spend a day in the center with orphaned and vulnerable children. Each rotation block typically sets up an activity for children (ie. Making a piñata, making tie-dye shirts, finger-painting, etc.). Please work with faculty members and Sarah-Ellen Mamlin to organize the date. Students typically conduct this activity during their last week of rotation.

### **Field visit with Orphan and Vulnerable Children:**

Students may be assigned to attend a field visit with Elizabeth Chester. Students will be able to observe a variety of activities provided to orphan and vulnerable children. Pharmacy students often provide help when children or family members are having trouble with medications.

*Notes for visit: Visitors should be at the OVC office no later than 8:00am the morning of the visit to assure as much time in the field as possible. Promptness is appreciated. We will generally return to the AMPATH office by no later than 2:30pm, however, there is no guarantee of this. It is therefore suggested that students refrain from scheduling any afternoon appointments they cannot afford to miss. Dress is **business casual with walking shoes (no lab coats please.)** Bring water. If you must bring food, be*

*prepared to share it with everyone in the car as this is a cultural norm. Site visits may be cancelled at any point. I will do my best to give you fair warning the night before a canceled visit. Donations toward OVC for the emergency fund will be gratefully accepted.*

**Neema House:**

Neema house is an orphanage in Eldoret, Kenya for HIV infected and affected orphans. .

Please see sign-up sheet in House 4 for opportunities to visit Neema House. Transportation is scheduled with Javan.

**Presentations:**

Morning report:

Morning report is an opportunity to review particular cases with medical students and faculty. This occurs each Tuesday and Thursday morning at 8 am in tutorial room one. Medical students are assigned particular dates when they arrive for their rotation. To identify the date of your presentation, please find out the name of the medical student on your team and ask them for their date of morning report (we can cross-reference this with a copy of the schedule from the team leaders). The medical student will pick the case. As the pharmacy student covering that patient, you will be responsible for reviewing the medication use and treatment portions of the presentation. You will have 5 – 10 minutes to present. You should discuss your planned topic for presentation 1 week prior to the presentation. You need to turn in your slides or presentation material to your preceptors 72 hours in advance.

Journal Club:

Each student is responsible for presenting an article for journal club. Dates will be assigned upon arrival. Please see the PUCOP dropbox folder for journal club instructions, expectations, example journal club and previous articles that have been presented.

**Additional Expectations and Rules:**

- 1) Students will be expected to attend all case and educational conferences if they are rotating through the main AMPATH center or MTRH.
- 2) Students will be expected to prepare at least one patient case conference at morning report. Students will be expected to prepare a complete case followed by a brief discussion of a specific treatment or aspect of the patient's management. This will be completed in collaboration with rotating medical students and faculty from America.
- 3) Students are expected to pass periodic surprise tests that are administered at the discretion of the leadership. Students are expected to continue reading up on topics described in the hand
- 4) Students will be expected to present at least one journal club presentation to the AMPATH pharmacy staff.
- 5) Attend all lectures and complete the assigned readings prior to attending these lectures



- a. American students are expected to attend all evening Fireside Chats which typically take place within IU House on Thursday nights at 7:30 PM
  - b. Kenyan students are not required to attend these discussions but are more than welcome to participate if convenient with their schedules
- 6) Students will be expected to attend all topic discussions and be present at the scheduled patient discussion times at the specified times.
- 7) Students will have Friday afternoons off to partake in cultural activities or depart for weekend trips.
- a. While every effort will be made to facilitate work schedules for weekend trips for the American students, these trips must not compromise any of the rotation expectations listed throughout the document
- 8) All requests for time off or early dismissal must be pre-approved by the clinical pharmacy leadership.
- 9) If patients are unable to make it to work or will be late they must inform the program staff
- 10) American students will receive 2 days off during the rotation to partake in leisure activities of their choosing. These must be pre-approved by program staff.
- a. American students will be expected to provide coverage for their rounding teams on Kenyan holidays.
  - b. Kenyan interns will observe national holidays and not be expected to show up for work
- 11) Students are expected to act in accordance with the rules and regulations set forth by Purdue University College of Pharmacy for the Kenya Rotation.

**Interns/Students Sign and Date:**

Name: \_\_\_\_\_

Date: \_\_\_\_\_