



## Sample Solid Organ Transplant APPE Student Rotation

### ***Rotation Description***

The Solid Organ Transplant rotation will familiarize the student with the disease states relating to kidney, pancreas, and liver transplantation and current trends in safe, effective pharmaceutical management of the patients on the Transplant Service. The transplant team is a multidisciplinary team including physicians, residents, nurse coordinators, pharmacy clinical specialists, social workers, nurses, and students which will provide the student the opportunity to participate in inter-profession collaboration. This rotation is designed to expose the student to a variety of activities including the following:

- Collecting appropriate information from the patient's medical record
- Providing comprehensive medication recommendations
- Clinically monitoring patients and their drug therapy
- Providing useful, accurate, and timely drug information
- Developing effective communication skills

### ***Prerequisites***

P4 Class Standing

### ***Course Objectives***

Upon completion of this experiential course, the student will be able to:

- Identify, evaluate, and communicate to the patient and other health care professionals the appropriateness of the patient's specific pharmacotherapeutic agents, dosing regimens, dosage forms, routes of administration, and delivery systems
- Provide patient education to transplant recipients and donors
- Identify and report medication errors and adverse drug reactions
- Discuss topics in the solid organ transplant setting and the pharmacologic management (including, but not limited to)
  - Immunosuppressant management
  - Organ rejection
  - Transplant infections (general principles, Cytomegalovirus (CMV), Pneumocystis jiroveci pneumonia (PCP), fungal infections)
  - Acute liver failure
  - Chronic liver failure
  - Chronic kidney disease
  - Renal replacement therapy
  - Different therapeutic needs of living and cadaveric transplant recipients
- Collect, interpret, and present pertinent patient information in a clear and concise manner
- Integrate clinical and pharmaceutical knowledge to identify potential medication related problems
- Retrieve, evaluate, manage, and use clinical and scientific publications in the decision-making process



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- Develop and implement a patient specific drug therapy monitoring plan and be able to revise based on changing patient data
- Integrate with members of the healthcare team and develop inter-disciplinary collaboration by effectively communicating drug information responses and therapeutic recommendations in a timely fashion
- Provide evidence-based and timely responses to requests for drug information
- Effectively prioritize patient care activities given a complex patient population and a limited amount of time.

### ***Course activities/project requirements***

During the course of the rotation, the student should participate in some of the following activities as assigned by the preceptor:

- Participate in daily patient care rounds with the Abdominal Transplant Team
  - Students will be responsible to individually follow a number of patients followed by the service. The progression of the patient load will be determined by the preceptor.
  - Collect and interpret pertinent patient information
  - Evaluate appropriateness medications and medication dosing based on patient specific factors, and develop a daily patient care plan prior to daily discussions with the preceptor
- Effectively and professionally communicate recommendations and drug information responses to health care providers
- Attend pharmacy journal clubs as scheduled, and independently select a recent article pertinent to kidney, liver, or pancreas transplant to present to your preceptor and possibly during one of these sessions.
- Topic Discussions: engage in scheduled topic discussions every week guided by the preceptor and/or pharmacy resident; or joint topic discussions with another preceptor.
  - Required readings and references will be provided ahead of time. The student is expected to have completed all readings and be prepared for the discussions.
- Prepare a formal case presentation to be delivered to the Pharmacy Department,
- Pre-round on all patients covered by the abdominal transplant service; prior to patient care rounds, identified medication related interventions will be discussed with preceptor
- Provide patient education on discharge medications for the transplant patients as needed following an orientation
- Complete one written SOAP note per week: identifying medication related interventions, treatment recommendations, and monitoring plan to be reviewed by preceptor
- Provide informal education and formal in-services to the transplant coordinators, medical team, pharmacy staff and students, nursing staff, or social work as needed
- Document medication errors, adverse drug reactions, and clinical interventions
- Attend Transplant grand rounds when available
- Observe a donor nephrectomy, kidney transplant, and/or liver transplant
- Other activities as agreed upon by student and preceptor.



### ***Attendance policy***

All students are expected to adhere to the rotation attendance policy and required to spend a minimum of 40 hours per week at the site.

- Tardiness is defined as greater than 10 minutes after expected time of arrival. If greater than 1 tardy then this will be classified as an unexcused absence. On time is defined at work and in place to start tasks.
- Unexcused absences are prohibited and may result in failure of course. Each unexcused absence will result in a minimum reduction of 5 percentage points per occurrence; two unexcused absences will result in automatic failure of the course. For excused absences refer to the student handbook.
- Absences with Advanced Notice: A student may make a request to be excused from rotation for a qualifying school sponsored or other educational event (e.g. career day).
- Absences for Illness/Emergency: In the event that the student may be unexpectedly absent from rotation (e.g. illness, emergency), the student must immediately notify BOTH the preceptor (by phone) and the Office of Experiential Education (304-696-7350). Please treat your preceptor as you would an employer and provide notice as soon as possible. In the event that the student must leave a message, (s)he should provide a contact phone number where (s)he may be reached and follow up with an e-mail (if possible) to ensure that the message was received. Each failure to notify the preceptor AND the school properly will result in (5%) deduction from the rotation grade.
- Holiday/Break policy: Students are required to be at their rotation site for all scheduled days EXCEPT for the following holidays: Memorial Day, Independence Day, Labor Day, and Thanksgiving Day. University academic breaks (e.g. spring break) are NOT scheduled holiday periods and students are expected to be at their rotation site.
- All missed time (for any reason, with the exception of an approved holiday) must be made up. In the event a student misses more than three (3) days of time during an APPE rotation, they will automatically fail the rotation unless the missed time is made up.

### ***Length of Course***

This experiential pharmacy practice will consist of five (eight academic hours) days (40 hours) per week for one five-week duration.