

**SHANDS JACKSONVILLE  
DEPARTMENT OF PHARMACY  
DOCTOR OF PHARMACY  
POISON INFORMATION CENTER/CLINICAL TOXICOLOGY/PUBLIC EDUCATION ROTATION  
PURPOSE AND OBJECTIVES**

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Clinical Associate Professor**

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Clinical Professor**

**I. PURPOSE**

To provide an understanding of clinical toxicology and the function and operation of a poison information center.

To familiarize the student with the functions of the pharmacist in the operation of a poison control center and clinical toxicology service.

To familiarize the student with the role of public education in the poison information center.

**II. OBJECTIVES FOR GRADED PRACTICE SKILLS**

**PRACTICE SKILL 1: TEAM INTERACTION/EDUCATION (10%)**

**OBJECTIVES:**

1. Demonstrate communication skills to effectively interact with physicians, nurses and other health care professionals.
2. Demonstrate the ability to effectively provide pertinent information regarding poisoning exposures and poison prevention to the lay public.

**ACTIVITIES:**

1. Provide accurate and complete responses to all poison information questions answered.
2. Participate with the handling of calls (ie. daily chart review, follow-up calls, observation of/listening to calls and actual answering of calls) under the direct supervision of a poison specialist.
3. Observe the role of pharmacists and other health care professionals in the poison control center and actively participate in public education programs and poison information center activities.
4. Provide continuing education lectures to poison specialists as requested by the faculty member.
5. Provide public education programs to the lay public as requested by the public education coordinator or other faculty member.

**PRACTICE SKILL 2: PATIENT PRESENTATION/DISCUSSION (10%)**

**OBJECTIVES:**

1. Demonstrate effective communication and monitoring skills necessary to reflect an appropriate level of knowledge concerning the current status of patients served by the poison control center.

2. Demonstrate the ability to reach therapeutic conclusions and make appropriate toxicologic recommendations based on pertinent patient and exposure data.

ACTIVITIES:

1. Present patients treated by the poison center and discuss relevant topics and cases with faculty on a routine basis.
2. Participate in discussions with toxicologists, poison specialists and other health care professionals regarding the most effective management of patients treated by the poison control center.

PRACTICE SKILL 3: PATIENT INTERVIEW/DRUG HISTORY TAKING (10%)

OBJECTIVE:

1. Demonstrate the ability to obtain relevant information from patients and health care professionals regarding a poisoning exposure.

ACTIVITIES:

1. Obtain complete medication and exposure histories from a patient or health care professional regarding a poisoning/overdose.
2. Question callers in a manner to retrieve pertinent and precise information regarding the poisoning exposure.

PRACTICE SKILL 4: PATIENT EDUCATION/COUNSELING (10%)

OBJECTIVES:

1. Demonstrate the ability to effectively interact with patients while providing accurate information concerning their medication/toxic exposure.
2. Demonstrate the ability to provide effective poison prevention information to patients and their families.
3. Demonstrate effective teaching skills necessary to actively assist with the education of the lay public.

ACTIVITIES:

1. Provide poison prevention information to patients and their families as assigned.
2. Participate in public education programs and special events offered by the poison information center.
3. Provide callers with appropriate instructions for the treatment of poisoned patients under the direct supervision of a faculty member or poison specialist.

PRACTICE SKILL 5: WRITTEN DRUG LITERATURE REPORTS (5%)

OBJECTIVES:

1. Demonstrate writing skills necessary to effectively communicate therapeutic information regarding the treatment of a medical condition or a poisoning exposure to other health care professionals.

2. Exhibit the ability to research the literature concerning toxicologic problems and relay relevant, well-referenced information to health care professionals and the lay public.

ACTIVITIES:

1. Provide written reports, consults and follow-up progress notes using appropriate assessment of the clinical literature. A written, referenced response shall be provided upon the request of a faculty member or other health care professional.
2. Participate with the continued development of policies and procedures, public education materials and triage criteria under the guidance of a faculty member or poison specialist.

PRACTICE SKILL 6: FORMAL ORAL/WRITTEN CASE PRESENTATIONS (10%)

OBJECTIVES:

1. Demonstrate the ability to identify and organize relevant patient information into a concise logical format for oral or written presentation.
2. Display effective presentation style with regard to voice control, eye contact, speed, audio/visual equipment use, etc.
3. Reach appropriate therapeutic conclusions based upon information available and exhibit ability to respond confidently to questions and/or discussion.

ACTIVITIES:

1. Present a formal oral and written patient case presentation to the Department of Pharmacy conforming to departmental guidelines (see clerkship manual).
2. Present a relevant journal article at the Poison Center Journal Club conforming to the department guidelines (see clerkship manual).
3. Present a relevant topic at the Clinical Toxicology Advisory Committee meeting if requested.

PRACTICE SKILL 7: DRUG THERAPY AND THERAPEUTIC PLAN DEVELOPMENT (10%)

OBJECTIVES:

1. Demonstrate the ability to discuss the general management and develop a therapeutic plan for the poisoned or overdosed patient, including indications for gut decontamination, elimination enhancement, antidotes and supportive care.
2. Demonstrate the ability to discuss the pharmacologic and non-pharmacologic management necessary for the supportive care of neurologic abnormalities, cardiac abnormalities, and respiratory emergencies resulting from poisoning exposures.
3. Demonstrate the ability to discuss the guidelines for the triage of patients following a poisoning exposure based on information retrieved during telephone discussion. Exhibit the ability to determine if home observation, home decontamination or health care facility referral is warranted.
4. Demonstrate the ability to discuss the clinical effects, range of toxicity and treatment of common exposures including, but not limited to CNS depressants, household products, over the counter medications, analgesics, hydrocarbons, alcohols, drugs of abuse, antidepressants and insecticides.

5. Demonstrate the ability to discuss the appropriate use of antidotes including their indications, dosage, side effects and administration guidelines.

#### ACTIVITIES:

1. Monitor patients managed by the poison control center via follow-up calls as outlined in the poison information center's policy and procedure manual.
2. Recommend initial poison information treatment including pertinent medications and therapeutic alternatives when appropriate.
3. Complete a computerized patient chart for each patient managed by the student on the poison control emergency phones.
4. Monitor patients as designated by faculty member or poison specialist, recording initial and subsequent assessment parameters relevant to the initiation, alteration and monitoring of poisoning management.
5. Discuss general management principles in the assessment and treatment of the poisoned/overdosed patient. This should include gastrointestinal decontamination, use of antidotes, hastening of elimination, decontamination and supportive treatment techniques.
6. Present topics regarding common poisoning exposures on a daily basis to faculty and develop a therapeutic plan for the treatment of patients exposed to these substances.
7. Discuss factors to be considered in developing assessment guidelines to be used in determining patient disposition.
8. Provide a plan for the stabilization and management of toxic exposures based on history, symptomatology and laboratory values of poisoned patients (ie. home management or ED).

#### PRACTICE SKILL 8: MONITORING FOR THERAPEUTIC ENDPOINTS (10%)

#### OBJECTIVES:

1. Recognize appropriate therapeutic endpoints for the treatment of poisoned patients.
2. Develop appropriate recommendations to optimize outcomes in the areas of drug selection, drug dose and indications for use in the management of the poisoned patient.
3. Demonstrate the ability to identify, resolve and prevent drug related problems during the management of the poisoned patient.

#### ACTIVITIES:

1. Provide follow-up care for poisoned patients as outlined in the "Follow-up" policy and procedure guidelines.
2. Complete a computerized patient chart for each patient managed by the student on the poison control emergency phones and continue to follow patient progress for a length of time as recommended in the center's policy and procedure manual.
3. Provide callers with information regarding therapeutic endpoints for the observation and treatment of poisoned patients.

PRACTICE SKILL 9: MONITORING FOR DRUG INDUCED DISEASES (10%)

OBJECTIVES:

1. Identify adverse reactions resulting from exposure to medications, chemicals and other substances.
2. Identify drug induced problems, including intentional, accidental and iatrogenic poisonings, and recommend appropriate management care plans for these patients.
3. Demonstrate the ability to make appropriate treatment recommendations based on the clinical significance and incidence of the adverse reaction to a substance.

ACTIVITIES:

1. Provide pharmacologic and non-pharmacologic therapeutic plans following a poisoning exposure.
2. Evaluate the potential for toxicity or adverse reaction following a poisoning exposure.
3. Monitor patients managed by the poison center for potential toxin/drug induced diseases and symptoms.

PRACTICE SKILL 10: TOXICOLOGY AND POISON INFORMATION CENTER KNOWLEDGE (5%)

OBJECTIVES:

1. Demonstrate the ability to discuss the epidemiology, clinical effects, range of toxicity of common poisoning exposures (see below).
2. Demonstrate an understanding of the significance of presenting symptomatology or toxidrome as related to a specific substance.
3. Discuss the organization of, function of, and services provided by the poison information center and the American Association of Poison Control Centers (AAPCC).
4. Discuss the administrative aspects of a poison information center.

ACTIVITIES:

1. Present and discuss topics as assigned by faculty to be presented on Wednesday and Friday of the first week, then every Monday and Wednesday. Topics will include, but are not limited to:

General poisoning management	CNS depressants
Substance abuse	Antidepressants
Analgesics	Household products
Over-the-counter products	Alcohols
Hydrocarbons	

PRACTICE SKILL 11: ATTENDANCE

Refer to Shands Jacksonville Department of Pharmacy clerkship manual.

PRACTICE SKILL 12: INITIATIVE/ENTHUSIASM/FOLLOW-THROUGH (5%)

Refer to Shands Jacksonville Department of Pharmacy clerkship manual.

PRACTICE SKILL 13: PROFESSIONAL ATTITUDE (5%)

Refer to Shands Jacksonville Department of Pharmacy clerkship manual.

III. FACULTY MEMBER DATA

Poison center administrative telephone number: 904-244-4465

Jay Schauben, Pharm.D., D.A.B.A.T.

Beeper number: 393-5806

Dawn Sollee, Pharm.D., D.A.B.A.T.

Beeper number: 306-4596

Thomas Kunisaki, MD, FACEP, ACMT

Beeper number: 498-0439

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**DAILY SCHEDULE**

Monday:	0700-1500 see schedule see schedule 1500-1630	Poison Information Center Activities Toxicology Rounds Toxicology Topics Topic/Case Discussion
Tuesday:	0700-1630 see schedule see schedule	Poison Information Center Activities Toxicology Topics Toxicology Rounds
Wednesday:	0700-1500 See schedule See schedule see schedule see schedule 1500-1630	Poison Information Center Activities Pharmacy Department Journal Club Pharmacy Department Case Presentations Toxicology Rounds Toxicology Topics Topic/Case Discussion
Thursday:	0700-1630 see schedule see schedule 1200-1330 See schedule 1400-1500	Poison Information Center Activities Toxicology Topics Toxicology Rounds Clinical Toxicology Advisory Committee (3rd week of the month) Poison Center Journal Club (2 <sup>nd</sup> week of the month) Pharmacy Grand Rounds (2nd and 3rd weeks of the month)
Friday:	0700-1500 see schedule see schedule 1500-1630	Poison Information Center Activities Toxicology Topics Toxicology Rounds Topic/Case Discussion

Students will also participate with public education programs as per monthly schedule. Schedule is subject to change on a daily basis. It is necessary to check with the faculty member daily to obtain any changes or additions.