

약국분야에서의 수련과정의 개발

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I. 서론

약학대학 졸업생의 80% 이상이 개국가 및 병원약국으로 진출하는 현 상황에서 약국임상에 대한 교과과목의 부재는 임상약사로서의 전문직능을 실추시키고 있다. 이제 국내 및 국제적인 추세에 따라 약학대학이 6년제로 전환하여야 된다는 것은 당연한 사실이라 하겠지만 실습기관, 교수진, 예산 및 약대진학을 저조예상등 여러 문제점으로 인하여 그 시기가 불투명하고 있다. 그러므로 인턴약사제도라도 우선적으로 도입, 운영하여 약국 소매업 개방, 의약분업등의 중요한 현안을 슬기롭게 대처하고 약사의 직능을 전문화하여야 할 것이다.

II. 미국약국 수련과정 분석

1. 소개

1) Internship의 발전

1990년 이전까지는 Internship이 pharmacist training(숙련과정)이라는 개념에서 실시하였지만 1970년 이후 부터는 Experiential Education(경험교육)으로 개념이 발전되었다. Internship과정은 주정부(Board of Pharmacy)에서 약사면허(R.P.H., Registered Pharmacist)를 발급하기전에 일정기간(Califonia의 경우 1,500시간) 이상을 개국가 및 병원에서 근무하고 약사의 확인을 받아야 할 수 있도록 규정하고 있다.

2) 임상약학(Clinical pharmacy)의 발전

1960년 말에서 1970년 초에 임상약학(Clinical pharmacy)의 개념이 도입되어 1979년에 ACCP(American College of Clinical Pharmacy)와 ASHP(American Associa-

tion of Hospital Pharmacists)의 긴밀한 협의로 임상약사가 양성되기 시작하였다.

그후 1989년에 APhA(American Pharmacist Association)는 임상약사를 위한 전문 약사분야로서 약물치료학(Pharmacotherapy)를 채택하여 임상약학이 성숙하게 되었으며, 1990년대에 들어오면서 Pharmaceutical care 개념이 도입되면서 새로운 전환기를 맞이하고 있다.

3) 약학대학 커리큘럼의 개혁

1970년대 초 externship이 정규 약대 커리큘럼에 채택되었으며, 학교와 개국약사의 감독하에 기본적인 약국에 관한 실습을 시작하게 되었다. 1970년 말 clerkship이 도입되면서 externship 보다는 약학전문지식을 함양시키고 약물치료에 초점을 두어 졸업후 약사로서의 전문직능을 수행할 수 있도록 돕고 있다. 이러한 제도들은 학교에서 주관하여 왔으며 이러한 실무교육이 다양하고 전문화됨에 따라 PEP(Professional Experience Program) 등을 설치하여 externship과 clerkship을 전문적으로 관할하고 있다.

4) 약사수련 과정 요약

구분	시 기	기 간	비 고
Externship	약대 1학년	1주 1회	약대정규과정
Clerkship	약대 3,4학년	8주	약대정규과정
Internship	방학중 혹은 졸업후	1,500시간	약사면허발급시 요구사항

2. PEP(Professional Experience Program)

1) 개요

약학대학과 개국가의 연결고리 같은 역할로서 Intern 학생들이 Externship과 Clerkship를 잘 수행할 수 있도록 만들어진 program이다.

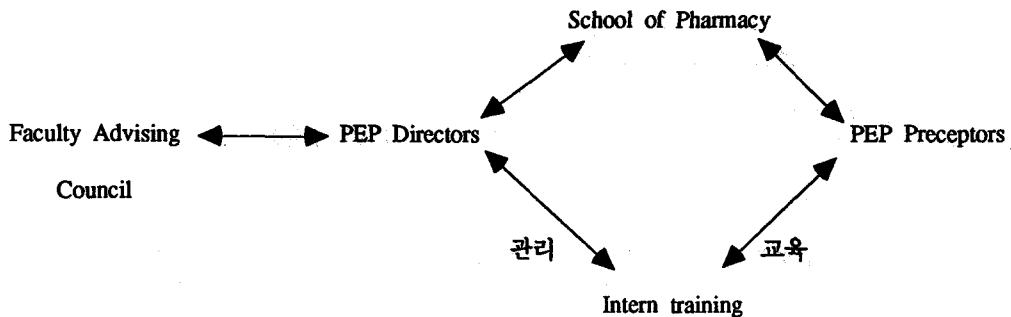
2) 역할

- a) Faculty 요원(Preceptor)선정 및 관리교육평가
- b) 실습장소 선정 및 계약
- c) Faculty의 교육 및 교육자료제작(PEP Manual)
- d) 인턴학생 관리 및 평가
- e) 각종 Seminar 및 Meeting 구상
- f) 약사감독기관 등과의 연락관계

3) 구성

- a) PEP Director
- b) 시간제 근무요원 또는 자원근무 PEP요원
- c) 일반 사무직

4) 운영



3. Faculty(PEP Preceptor)

1) 구분

- a) Preceptor faculty

병원, 클리닉, HMO, 개국 혹은 체인약국 등에서 근무하는 약사 또는 시간제 또는 Volunteer faculty를 말하며, 약학대학의 소정의 서류면접에 통과하여 임명된다.

- ◆ Application for Voluntary Faculty Appointment

- ◆ Request for Information
- ◆ Curriculum vitae
- ◆ Letter of Recommendation

b) Experiential faculty

Preceptor faculty, 정식, full-time clinical faculty를 총칭한다.

2) 자격요건

- a) 약사면허소지자
- b) 양질의 약국경영
- c) 전문적 학회 혹은 CE 참가자
- d) 자기소신을 가진자
- e) 자기향상을 기울이는 자
- f) 사생활이 깨끗한 자
- g) 직업윤리관이 있는자
- h) 약사법 위반 사례가 없는자
- i) 교육능력이 있는자
- j) 기타

3) Faculty Advising Council

PEP에 참여하고 있는 preceptor, 교수 및 임상교수등으로 구성하여 PEP에 대한 자문 및 통제기능을 수행하고 있다.

4. 교육내용

1) 일반적 사항

- a) 개국약국의 약사직업
- b) 약국의 재정균형
- c) 약품판매에 대한 원칙
- d) 약품구매와 재고관리

- e) 약국 시건장치
- f) 사업을 위한 방법
 - ◆ 단독개업
 - ◆ 파트너쉽
 - ◆ 주식회사
 - ◆ 프랜차이즈
- g) 마케팅 전략

2) 약국개업

- a) 약국 장소 분석(외부적/내부적)
- b) 재정분석
- c) 약국 임대계약서 작성
- d) 약국 구입

3) 전문적 사항

- a) 약사법의 이론과 실제
- b) 일반 의약품의 검토
- c) 약품조제 및 약국제제 검토

4) 실제상황

- a) 약사 감독하 실제상황
- b) 환자 모니터링 및 상담
- c) 약국 경영 실제

5) 평가

- a) 인턴의 제안
- b) Preceptor 평가
- c) 최종평가

5. 세부적 교육내용

1) Communication

- a) 처방약에 대하여 적당한 사용법, 투여계획, 부작용, 보관법 및 포장단위 등에 대하여 상담을 할 수 있어야 한다.
- b) 환자에게 생길 수 있는 알려지반응에 대하여 판단하고 환자, 보호자 그리고 다른 의료종사자에게 치료방법을 설명할 수 있어야 한다.
- c) 환자의 상태에 따라 약물 주의사항과 부작용을 환자에게 설명할 수 있어야 한다.
- d) 환자에게 약제비 명세를 잘 설명할 수 있어야 한다.
- e) 약물상담에 있어 환자가 잘 이해할 수 있도록 상담할 수 있어야 한다.
- f) 비처방약, OTC, 의료기구 및 진단용 제품의 사용법, 제형, 보관, 부작용, 포장단위에 대해 환자에게 설명을 잘 할 수 있어야 하고 질문에 대답할 수 있어야 한다.
- g) 환자에게서 비처방약 사용목적은 잘 듣고 적당한 약을 추천할 수 있어야 한다.
- h) 환자에게 처방약과 비처방약 선택을 결정할 수 있어야 한다.
- i) 독약 통제 및 치료에 대한 정보를 제공할 수 있어야 한다.
- j) 다른 의료전문직에게 구두 혹은 서면으로 약물정보를 전달할 수 있는 능력이 있어야 한다.
- k) 약품과 약물치료에 대한 정보를 다른 의료전문직에게 제공할 수 있어야 한다.
- l) 처방전을 명료하게 확인하고 처방자와 서로 의견 교환을 할 수 있어야 한다.
- m) 인턴은 preceptor와 상호의견을 교환할 수 있어야 한다.
- n) 그룹이나 개인에게 약물치료학 정보를 설명할 수 있어야 한다.

2) 처방전

- a) 구두나 서면으로 받은 처방전을 정확하게 풀이할 수 있어야 한다.
- b) 처방전상의 약품이 무엇인가를 분석할 수 있어야 한다.

- c) 알려지, 약물상호관계 혹은 다른 질병과의 상호관계등이 있는지 확인할 수 있어야 한다.
- d) 적당한 용량, 제형 그리고 처방전의 정확을 기할 수 있어야 한다.
- e) 약사법에 저촉여부를 판단할 수 있어야 한다.
- f) Generic 대체에 관하여 법적으로 적합한가를 판단할 수 있어야 한다.
- g) 적절한 약품을 선택, 평가하고 환자에게 처방전을 제공할 수 있어야 한다.
- h) 법적으로 요구하는 대로 처방전에 따른 투약, 체크, 라벨작성 그리고 서류처리 능력이 있어야 한다.
- i) 처방전 상의 표기법을 작성할 수 있어야 한다.
- j) 처방전 상에 기재된 내용에 대하여 산술적 계산능력이 있어야 한다.
- k) 처방전 상의 투여약품을 적절한 기구 및 용기를 이용하여 compound할 수 있어야 한다.
- l) 환자에게 약품투여를 정확히 할 수 있어야 한다.

3) Patient Monitoring

- a) 환자의 문제점, 과거병력, 신체검사 및 임상실험결과, 환자입원등을 포함하여 환자약물치료 자료등을 해석하고 수행할 수 있어야 한다.
- b) 배정된 환자의 Medical record를 완전히 이해하여야 한다.
- c) 배정된 환자의 profile를 작성 또는 추가할 수 있어야 한다.
- d) 약물동력학적 Monitoring이 필요한 지 필요하면 어떤 parameter가 필요한 지를 알아야 하고 그 결과를 토대로 의견을 제시할 수 있어야 한다.
- e) 임상 assessment에 관련 약품을 구분하고 그 근거를 작성할 수 있어야 한다.
- f) 환자가 약물치료에 대해 부작용을 경험하고 있는지를 판단하여야 하고 환자에게 상담 또는 의료요원에게 조회할 수 있어야 한다.
- g) 정확한 치료완료시기 결정, 최적의 약물, 용량, 투여경로 및 투여기간의 선택, 약효 및 부작용을 Monitor하기 위한 parameter 선택등 약물치료계획을 제시할 수 있어야 한다.

- h) 약물치료로부터 예견되는 효능 및 독성을 위해 follow-up할 수 있는 계획을 고안할 수 있어야 한다.
- i) 환자의 약물치료 profile를 해석하고 환자가 치료에 잘 순응하고 있는가 체크할 수 있어야 한다.

4) Drug Information

환자, 보호자 및 다른 의료종사자들에게 구두 및 서면으로 약품정보를 출력, 분석, 응용, 전달할 수 있어야 한다.

5) Management Issues Related to Pharmacy

- a) 약품사입, 재고조사 측정, 안전, 약품보관 및 통제방법, 품질보장, 기본 회계처리를 설명할 수 있어야 한다.
- b) 종업원의 감독, 인사계획 또는 전한위임 등을 포함한 인사경영과정을 설명할 수 있어야 한다.
- c) 종업원의 구직, 고용 및 퇴직에 대한 관계를 설명할 수 있어야 한다.
- d) 약국면허 및 자격기준등에 대한 약사법을 설명할 수 있어야 한다.
- e) 약국경영에 관한 서적을 설명할 수 있어야 한다.
- f) 각종 처방집에 대해 설명할 수 있어야 한다.
- g) 종업원 단합을 유도하는 능력을 설명할 수 있어야 한다.
- h) 종업원 운영위원회의 구조 및 기능을 설명할 수 있어야 한다.

6) Professional characteristics

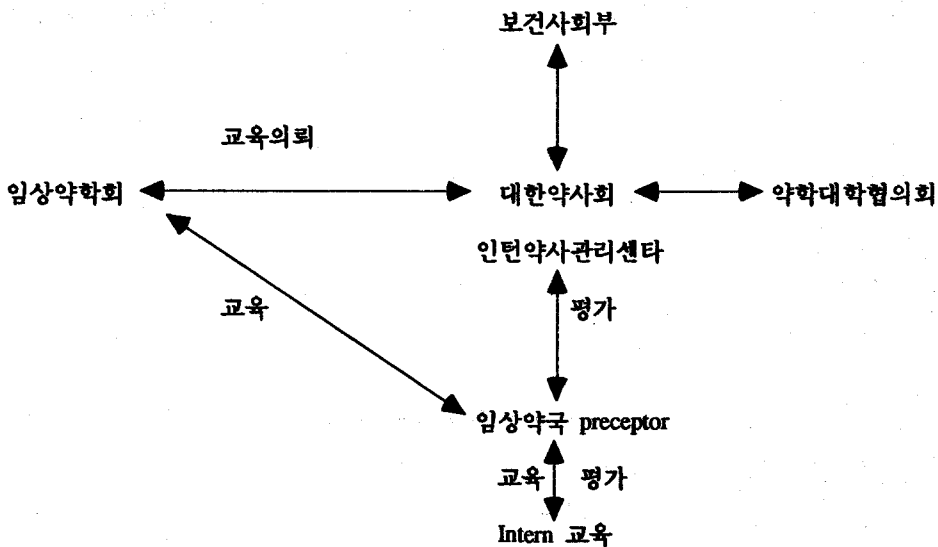
- a) 전문적이고 윤리적 판단기준을 가지고 있어야 한다.
- b) 환자, 동료, 다른 의료직, 보호자들에게 전문적 행동을 보여 주어야 한다.
- c) 자기가 가지고 있는 지식을 충분히 보여 주어야 한다.
- d) 자기의 판단을 단호하게 내릴 수 있어야 한다.
- e) 조직적이고 계획적으로 자기 설명을 해야 한다.
- f) 현명한 결정을 내려야 한다.

- g) 환자에게 자세하게 설명하여야 한다.
- h) 인간관계를 잘 성립하여야 한다.
- i) 건설적 비평을 받아들일 수 있어야 한다.
- j) 자기 책임에 대하여 헌신적이고 확신있게 보여주어야 한다.
- k) 약학 전문지식 발달에 대하여 솔선수범하여야 한다.
- l) 약물학적 지식과 응용기술을 잘 보여주어야 한다.
- m) 최적의 Pharmaceutical care를 위해 노력하여야 한다.

6. 개인적 제안

- 1) 인턴약사 추진위원회 구성을 하여야 한다.

예) 보사부, 약사회, 약대교수 및 전문가로 구성



- 2) 세부적 실천방향을 결정하여야 한다.

- a) 인턴시기: 졸업전 약대 커리큘럼상에 둘 것인가 졸업후 의무사항으로 만들 것인가?
- b) 인턴기간
- c) 임상 실습 preceptor의 자격

예) ♦ 대학원이상 석사학위소지자 및 그에 동등한 자격을 가진 약사

◆ 약국 및 의료기관에서 5년 이상 종사자

◆ 아래 서류면접에 통과한자

응시원서

자기소개서

경력증명서

약사회 추천서

d) Preceptor의 교육

e) Preceptor 및 Intern의 평가기준

3) 정부차원의 지원과 약사법 개정이 밀받침되어야 한다.

예) 약사면허는 소정의 인턴기간을 약국 및 의료기관에서 근무하여야 하고
Preceptor로부터 확인을 받아야 한다.

4) 대학은 임상약학 교수요원의 확보 및 약대 커리큘럼에 대수술을 시행하여야 할 것이다.

* 별첨

1) 일반약국 인턴근무 확인서

2) 일반약국 인턴근무 성적서

3) 일반약국 Clerkship 평가 양식

4) 학생의 preceptor평가서

COMMUNITY PHARMACY INTERNSHIP OBJECTIVES

PHARMACY INTERN EXPERIENCE AFFIDAVIT

Name of Applicant: _____ Social Security _____
 (please print) last name first name MI Number

Intern No.: _____ Date Issued: _____ Expiration Date: _____

INSTRUCTIONS: It is the intern's responsibility to seek preceptors and internship sites that at a minimum will provide him or her with those experiences outlined below. As each objective is mastered, the preceptor should date and initial the line opposite the objective. All preceptors who date and initial the form must also sign the end of this form.

Receiving and Interpreting the Prescription

Date; Preceptor Initials

- | | |
|---|-------|
| 1. The intern is able to receive a prescription and obtain and clarify all necessary information (e.g., name, date, correct spelling, address, age and weight if appropriate, name of prescriber, and third-party information). | _____ |
| 2. The intern, upon receiving a telephone prescription from a prescriber or his or her agent, is able to record the information accurately and completely, noting the identity of the caller. | _____ |
| 3. The intern is able to detect errors and omissions in a prescription or medication order, and can take appropriate action to correct them. | _____ |
| 4. The intern is able to establish and maintain manual or computerized prescription profiles (e.g., patient history, drug information, third-party information). | _____ |
| 5. The intern is able to use the patient medication profile to monitor drug utilization, note drug interactions, allergies and sensitivities, and is able to take appropriate action to correct drug-related problems. | _____ |
| 6. The intern is able to determine when it is legal and/or appropriate to refill a prescription. When necessary, the intern is able to obtain the prescriber's authorization and document the transaction. | _____ |
| 7. The intern is able to recognize a situation in which an individual may be passing either a forged prescription or a prescription which is valid on its face but in all probability is not for legitimate medical use. The intern is able to determine if either of these is the case, and knows the process to notify the appropriate authorities. | _____ |

Prescription Preparation, Dispensing and Control

- | | |
|---|-------|
| 1. The intern is able to select the correct drug product, including drug entity, manufacturer, dose, and dosage form and is able to accurately prepare the prescription for dispensing. | _____ |
|---|-------|

-
2. The intern can prepare or supervise the preparation of the prescription label (generated manually or by computer) for a given prescription which conforms to all state and federal regulations. The intern is able to assure that the label conveys directions in a manner understandable to the patient and that appropriate auxiliary labels are attached.
 3. The intern is able to select an appropriate container for storage or use of medications with special requirements (e.g., child-resistant containers, compliance devices).
 4. The intern is able to perform the necessary calculations and demonstrate the required pharmaceutical skills (weighing, trituration, dilution, etc.), to produce a pharmaceutically elegant product. The intern is able to accurately document all necessary steps and procedures involved in compounding of that product.
 5. The intern is able to perform a final check of the prescription with regard to correct drug, dose, dosage form, and accuracy and clarity of labeling.
 6. The intern is able to appropriately dispose of outdated, discontinued or recalled drugs, controlled substances, needles and syringes, and cytotoxic agents.

Date; Preceptor Initials

Consultation with Patients and Health Providers

1. The intern is able to effectively communicate all information necessary to encourage proper use and storage of the medication. This includes the importance of compliance with directions, and precautions and relevant warnings. The intern routinely verifies that the patient understands this information.
2. The intern is able to effectively communicate with other health professionals for such purposes as counseling, discussing the therapeutic plan, and providing education.
3. The intern is able to assess a patient's self-identified problem to determine if the problem requires the pharmacist's intervention or a medical referral.
4. The intern is able to transfer a prescription and relevant information to another pharmacist and document the transaction properly.

Record Keeping

1. The intern is able to establish and maintain manual or computerized files of current prescription records in conformance with state and federal laws and regulations.
2. The intern is able to maintain suitable records for poisons, DEA-controlled substances and syringes and needles that are received, stored and furnished by the pharmacy.

Non-Prescription Products

1. The intern is able to assess a patient's complaints and discuss the options for therapy. Where the use of a non-prescription medication is indicated, the intern is able to make recommendations and counsel the patient about the proper use of the product(s).
2. The intern is able to instruct a patient on the proper use of a diagnostic agent or device including directions for obtaining accurate results and interpreting the results.

3. The intern is able to instruct a patient on the proper and safe use of commonly used health products such as condoms, thermometers, metered-dose devices, ear syringes, and compliance devices. **Date; Preceptor Initials**

4. The intern is able to instruct a patient on the proper and safe use of durable medical equipment and home health supplies.

Drug Information

1. The intern is able to identify an unidentified drug dosage form using appropriate resources or refer the question to an appropriate source.

2. The intern is able to evaluate the urgency of a poisoning or overdose situation, supply general information on the initial treatment, and refer the problem to the nearest poison information center, if necessary.

3. The intern is able to effectively select and use appropriate references to answer drug information requests and/or refer the questions to another source for response.

I certify, under penalty of perjury, that all objectives I have initialed have been met. To the best of my knowledge, the experience thus gained by this applicant has been predominantly related to the practice of pharmacy, as required by law.

Preceptor's Name Initials RPh # Date

Preceptor's Name Initials RPh # Date

Preceptor's Name Initials RPh # Date

Preceptor's Name Initials RPh # Date

COMMUNITY PHARMACY PRACTICE COMPETENCY EVALUATION

This form is to be completed by the preceptor during the 6-week rotation. Please check appropriate square that best represents student's performance under each competency. The student must satisfactorily pass all competencies listed below to pass the course. Add additional comments, if you desire. In the space provided under each competency statement. If a statement does not apply, please indicate N/A.

Student Name _____
 Pharmacy Assigned To: _____
 Preceptor: _____
 Period assigned to this Rotation (circle correct designation):
 FALL SPRING I II III

COMPETENCY PERFORMANCE RATING

	4	3	2	1	0
1. The intern is able to receive a prescription and obtain and clarify all necessary information (e.g., name, date, correct spelling, address, age and weight if appropriate, name of prescriber and third-party information).					
2. The intern, upon receiving a telephone prescription from a prescriber or his or her agent, is able to record the information accurately and completely, noting the identity of the caller.					
3. The intern is able to detect errors and omissions in a prescription or medication order, and can take appropriate action to correct them.					
4. The intern is able to establish maintain manual or computerized prescription profiles (e.g. patient history, drug information, third-party information).					

COMPETENCY PERFORMANCE RATING

	4	3	2	1	0
5. The intern is able to use the patient medication profile to monitor drug utilization, note drug interactions, allergies and sensitivities, and is able to take appropriate action to correct drug-related problems.					
6. The intern is able to determine when it is legal and/or appropriate to refill a prescription. When necessary, the intern is able to obtain the prescriber's authorization and document the transaction.					
7. The intern is able to recognize a situation in which an individual may be passing either a forged prescription or a prescription which is valid on its face but in all probability is not for legitimate medical use. The intern is able to determine if neither of these is the case, and knows the process to notify the appropriate authorities.					
8. The intern is able to select the correct drug product, including drug entity, manufacturer, dose, and dosage form and is able to accurately prepare the prescription for dispensing.					

COMPETENCY
PERFORMANCE RATING

	4	3	2	1	0
9. The intern can prepare or supervise the preparation of prescription label (generated manually or by computer) for a given prescription which conforms to all state and federal regulations. The intern is able to assure that the label conveys directions in a manner understandable to the patient and that appropriate auxiliary labels are attached.					
10. The intern is able to select an appropriate container for storage or use of medications with special requirements (e.g., child-resistant containers, compliance devices).					
11. The intern is able to perform the necessary calculations and demonstrate the required pharmaceutical skills (weighing, titration, dilution, etc.), to produce a pharmaceutically elegant product. The intern is able to accurately document all necessary steps and procedures involved in compounding of that product.					
12. The intern is able to perform a final check of the prescription with regard to correct drug, dose, dosage form, and accuracy and clarity of labeling.					
13. The intern is able to appropriately dispose of outdated, discontinued or recalled drugs, controlled substances, needles and syringes, and cytotoxic agents.					

COMPETENCY
PERFORMANCE RATING

	4	3	2	1	0
14. The intern is able to effectively communicate all information necessary to encourage proper use and storage of the medication. This includes the importance of compliance with directions, and precautions and relevant warnings. The intern routinely verifies that the patient understands this information.					
15. The intern is able to effectively communicate with other health professionals for such purposes as counseling, discussing the therapeutic plan, and providing education.					
16. The intern is able to assess a patient's self-identified problem to determine if the problem requires the pharmacist's intervention or a medical referral.					
17. The intern is able to transfer a prescription and relevant information to another pharmacist and document the transaction properly.					
18. The intern is able to establish and maintain manual or computerized files of current prescription records in conformance with state and federal laws and regulations.					

COMPETENCY
PERFORMANCE RATING

	4	3	2	1	0
19. The intern is able to maintain suitable records for poisons, DEA-controlled substances and syringes and needles that are received, stored and furnished by the pharmacy.					
20. The intern is able to assess a patient's complaints and discuss the options for therapy. Where the use of a non-prescription medication is indicated, the intern is able to make recommendations and counsel the patient about the proper use of the product(s).					
21. The intern is able to instruct a patient on the proper use of a diagnostic agent or device including directions for obtaining accurate results and interpreting the results.					
22. The intern is able to instruct a patient on the proper and safe use of commonly used health products such as condoms, thermometers, metered-dose devices, ear syringes, and compliance devices.					

COMPETENCY
PERFORMANCE RATING

	4	3	2	1	0
23. The intern is able to instruct a patient on the proper and safe use of durable medical equipment and home health supplies.					
24. The intern is able to identify an unidentified drug dosage form using appropriate resources or refer the question to an appropriate source.					
25. The intern is able to evaluate the urgency of a poisoning or overdose situation, supply general information on the initial treatment, and refer the problem to the nearest poison information center, if necessary.					
26. The intern is able to effectively select and use appropriate references to answer drug information requests and/or refer the questions to another source for response.					

The above 19 statements were derived from the *Pharmacy Intern Experience Affidavit* (Form 17A-30 prepared by the California State Board of Pharmacy, Department of Consumer Affairs).

PLEASE USE THE FOLLOWING SCALE:

- 4 = Excellent/Outstanding
- 3 = Above Average
- 2 = Average/Competent
- 1 = Below Average/Not Competent
- 0 = Unacceptable

COMMUNITY PHARMACY CLERKSHIP EVALUATION FORM

Student Name _____

Rotation: FALL SPRING 1 2 3

Preceptor: _____ Pharmacy _____

Scale: 4 = excellent/outstanding 3 = above average
 2 = average/competent 1 = below average/not competent
 0 = unacceptable NA = unable to do it

Please comment when possible, especially on all scores below 2.

I. CLINICAL PATIENT CARE ACTIVITIES

How well is the student able to:

1. Communicate prescription drug information to patients. Please evaluate style, confidence, content, verbal and non-verbal skills and professionalism.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

2. Counsel consumers/pateints on OTC drugs. Please evaluate knowledge of OTC products and ability to select a product given a patient symptom and medical/medication history.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

3. Answer drug information questions from consumers and health professionals. Please evaluate use of background knowledge, ability to utilize reference sources, and communication skills.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

4. Discuss contemporary issues as they relate to health care in general and community pharmacy practice. Please evaluate breadth of knowledge of current events, ability to carry a discussion, and interest in contemporary issues.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

5. Assess and monitor drug therapy and problem solve when necessary. Please evaluate use of the patient profile and communication skills with patients and providers in determining a solution.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

II. MANAGEMENT/OPERATIONAL ACTIVITIES

How well is the student able to:

6. Perform or understand management functions related to third-party billing and accounting in the pharmacy. Please evaluate skills to conduct Medi-Cal and other insurance billing and ability to perform accounts payable and receivable, payroll and daily cash-out and sales records, and understanding of financial statements.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

7. Perform or understand management functions related to inventory control, purchasing, and pricing prescriptions. Please evaluate breadth of knowledge and skills to perform these tasks independently.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

8. Function as a manager or supervisor of a community pharmacy. Please evaluate supervisory skills, ability to make decisions give a situation, and personnel management capability.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

9. Apply legal background information to community pharmacy practice. Please evaluate how well the student knows the law and is able to make appropriate judgement given a situation.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

10. Perform advanced management functions such as demographic and location analysis, determining the selling price of a pharmacy and prescription pricing strategies.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

III. PROJECT/PROPOSAL

Please evaluate the project or proposal with regards to:

11. Complexity and level of difficulty of project/proposal.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

12. Verbal presentation to you. Please evaluate style and content of presentation, and student's receptivity to comments.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

13. Written report. Please evaluate neatness, grammar, content, and thoroughness.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

14. Usefulness of the project/proposal to your pharmacy. Please evaluate practicality and how well the project/proposal was thought-out.

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

IV. STUDENT CHARACTERISTICS RELATED TO THE PRACTICE OF PHARMACY IN THE COMMUNITY

Please evaluate the student's:

15. Attitude/enthusiasm 4 3 2 1 0 NA

16. Attendance 4 3 2 1 0 NA

17. Communication Skills 4 3 2 1 0 NA

18. Initiative 4 3 2 1 0 NA

19. Professional Appearance 4 3 2 1 0 NA

20. Ethical Conduct 4 3 2 1 0 NA

21. Interpersonal Relationship Skills 4 3 2 1 0 NA

COMMENTS: _____

STUDENT STRENGTHS: _____

STUDENT WEAKNESSES: _____

22. Overall assessment of the student's ability to function in contemporary community pharmacy practice:

SCORE: 4 3 2 1 0 NA

COMMENTS: _____

DATE _____

STUDENT SIGNATURE _____

PRECEPTOR SIGNATURE _____

FOR OFFICE USE:

TOTAL SCORE _____ (88 possible)

GRADE _____

**STUDENT EVALUATION OF PRECEPTOR/CLERKSHIP
1994-1995**

Clerkship Site _____

Clerkship Name _____

Name of Instructor _____

Circle One: Summer, F-1, F-2, F-3, S-1, S-2, S-3

Please answer each of the following items pertaining to the clerkship experience you have just completed. **Please return completed form to PSC 713.**

For each of the following items circle the most appropriate rating:

1= Low or No 4= High or Yes

Circle One

- | | | |
|-----|---|---------|
| 1. | The preceptor was prepared and well organized. | 1 2 3 4 |
| 2. | The preceptor communicated effectively with me. | 1 2 3 4 |
| 3. | The preceptor earned my respect for his/her knowledge and experience. | 1 2 3 4 |
| 4. | The preceptor demonstrated high standards for pharmacy practice. | 1 2 3 4 |
| 5. | The preceptor was responsive to my needs and abilities. | 1 2 3 4 |
| 6. | The preceptor was accessible. | 1 2 3 4 |
| 7. | The preceptor provided constructive assessments of my performance. | 1 2 3 4 |
| 8. | My performance evaluation was discussed with me at appropriate intervals. | 1 2 3 4 |
| 9. | The preceptor provided a positive learning experience. | 1 2 3 4 |
| 10. | The clerkship environment was conducive to learning. | 1 2 3 4 |

Your comments are valuable in helping us assess this experience: _____

Estimated number of contact hours with instructor: _____