



Development and Implementation of a Capstone Course with OSCEs Prior to Advanced Pharmacy Practice Experiences in a Pharm.D. Program

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Objectives for Today's Session



- 1. Describe a triangulated assessment process utilized when developing a capstone course for a new curriculum.
- 2. Identify relevant and required content for a capstone course that assesses competence pre-experiential rotations.
- 3. Conduct a post-course assessment to determine effectiveness of the course for students and curriculum goals.



Clinical Capstone PPR 6295

- **Course Description:**
- This course will build upon pharmacotherapeutic knowledge and skills obtained throughout the Pharm.D. curriculum and integrate practice-based knowledge and skills to help students be more successful in their professional practice. Students will evaluate patient cases and practice-related problems and be assessed on their preparedness for advanced pharmacy practice experiences.

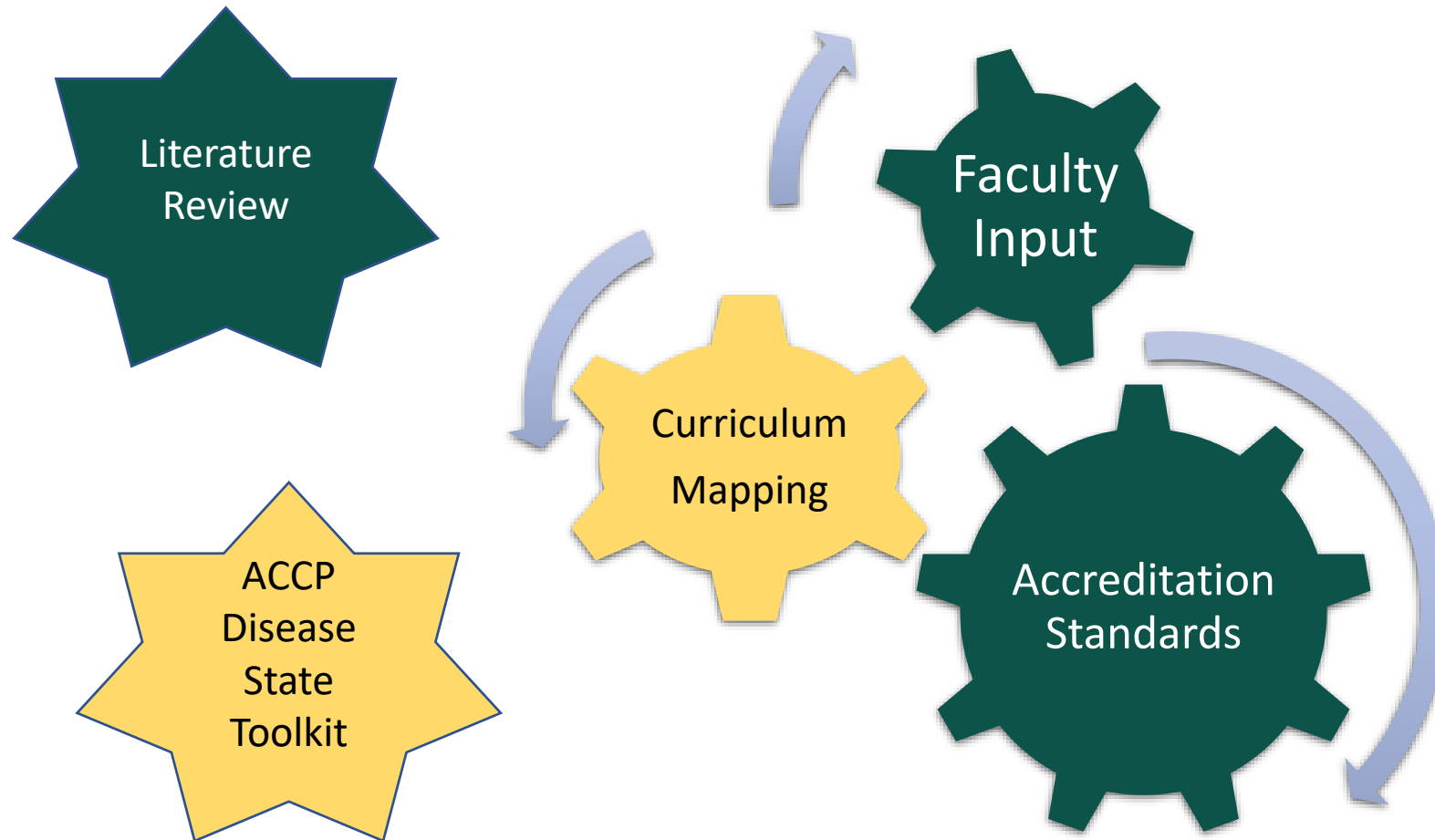


Sample of Objectives from the Course

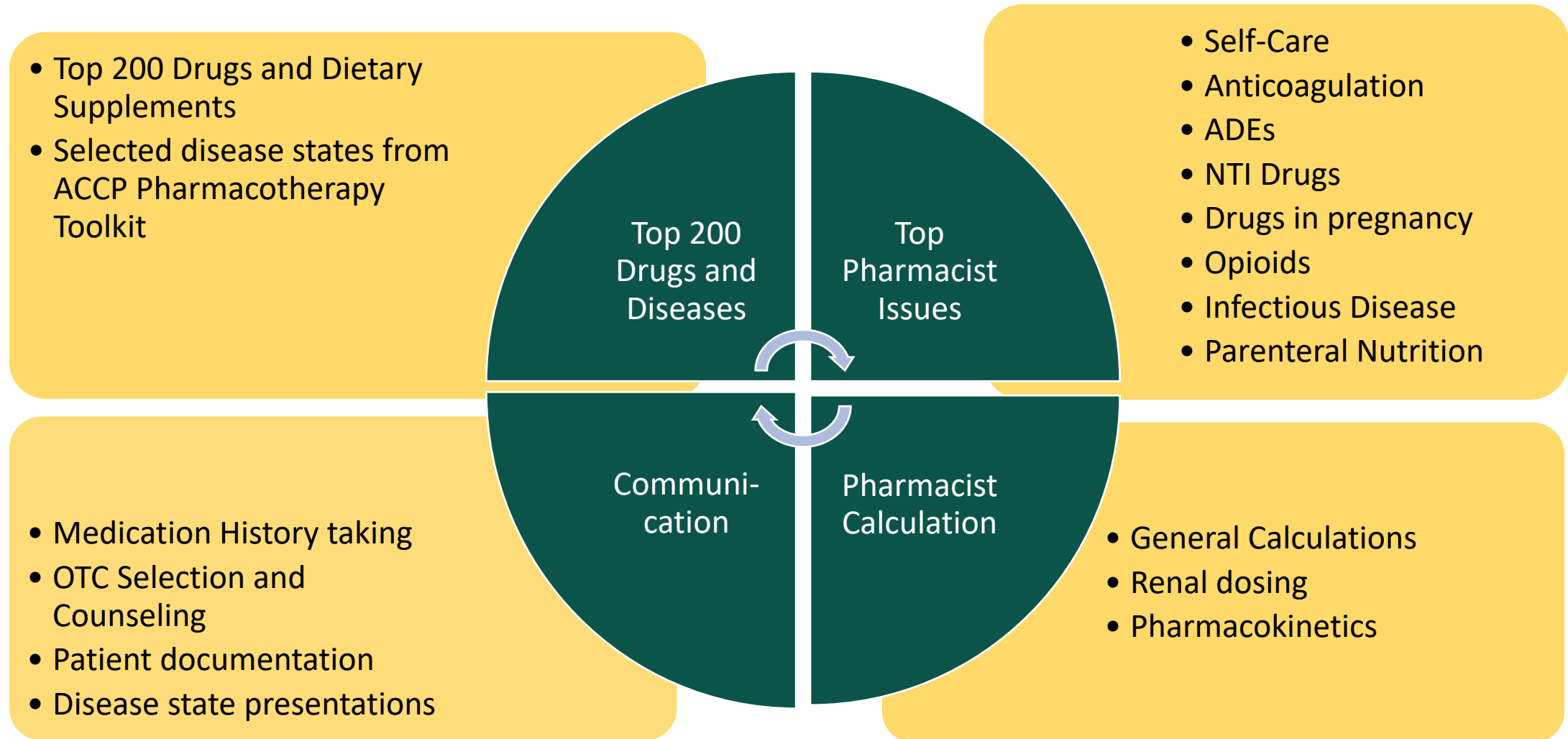
- Integrate knowledge from foundational sciences to explain how specific drugs or drug classes work and evaluate their potential value in individual patients.
- Review top 200 prescription and over-the-counter drugs in order to prepare for APPE.
- Apply principles of managing parenteral nutrition to a patient case.
- Apply standards, guidelines, best practices, and established processes related to safe and effective medication use.
- Critically analyze scientific literature related to drugs and disease to enhance clinical decision making.



How We Got There – Multiple Steps



Focus of Course – Review and Assessment



Assessments tied into Course and percentages



Summative Assessments

- OSCEs (formative/summative) (20%)*
- PCOA (20%)*
- Top 200 (105)

*Pass requirement: Overall 70% plus meet OSCE and PCOA threshold

Topic-Related / Individual (all 2.5-8%)

- Renal/PK dosing
- General pharmacy calculation
- MTM documentation
- ID/Inpatient documentation
- Opioid use and Pharmacy law
- NTIs and Drugs in Pregnancy
- Anticoagulation
- Disease State Presentation

Objective Structured Clinical Exams: Formative/Summative

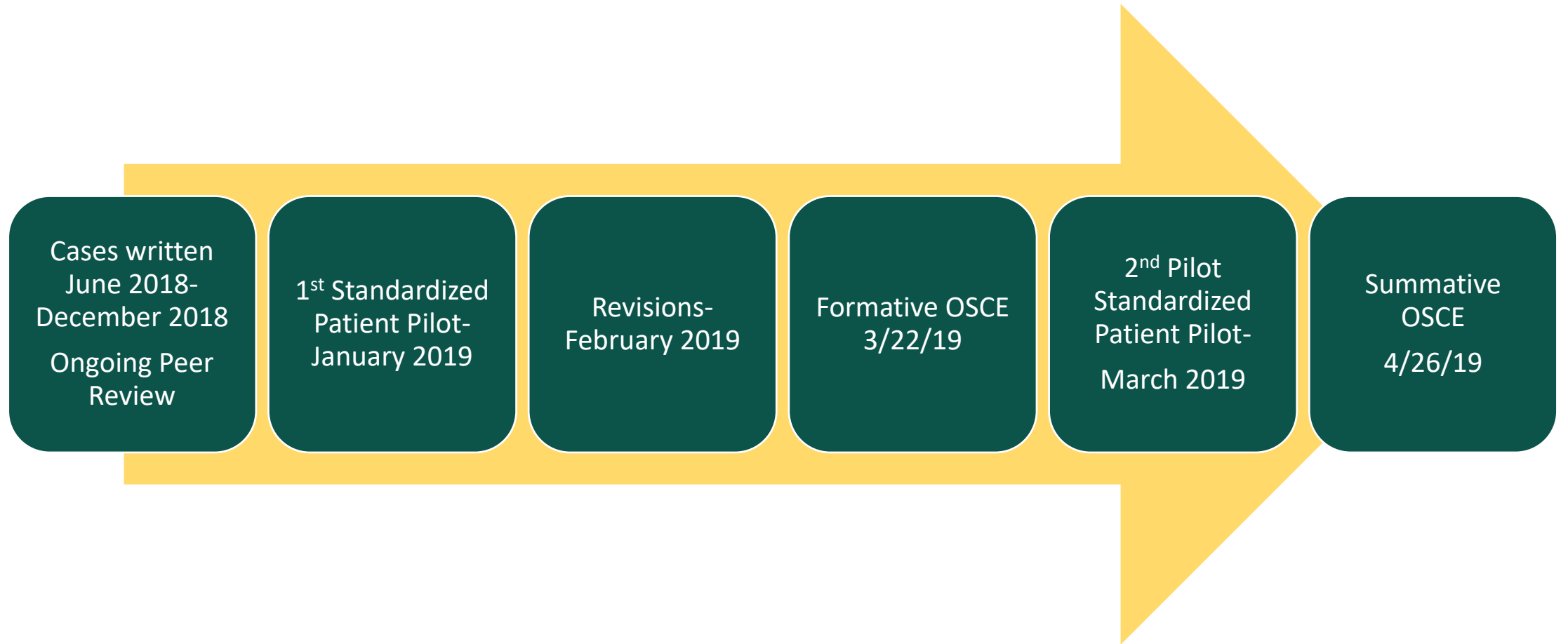


**** Each OSCE has 4 stations ****

- Using Standardized Patients
 - OSCE Station #1: Taking a Medication History in a Hospitalized Patient
 - OSCE Station #2 Communicating with a Patient regarding OTC Selection in a Community Pharmacy Setting
- Using Individual Written evaluations
 - OSCE Station #3: Evaluation of a Hospitalized Patient Case and Orders (On-the-Spot Dosing Recs)
 - OSCE Station #4: Community Medication Order and Verification Review (identify need for adjustment)

At Kado Clinical Skills Center- all students each day- 20 students at each time- high security

Timelines for Development and Execution of OSCEs



Standardized Patient Stations (Assessments)

- #1 Medication History

- Communication Checklist -45%
- Technical Checklist (elements of correct medication history)-45%
- Global Patient Assessment “I would seek help from this pharmacist in future”-10%

- #2 OTC Counseling

- Scholar-Mac Checklist-45%
- Drug selection and counseling checklist-45%
- Global Patient Assessment “I would seek help from this pharmacist in future”-10%



Written Stations Assessments



#3 Renal Dosing in a Hospitalized Patient

- Answer identification of causes question on case
- Select status of medication on profile “continue as is, modify, discontinue”
- Write dosing
- Write monitoring

#4 Community Medication Order Verification

	Name	Katie Bell	Allergies	Not Available	Address	623 E. 68th St. Detroit, MI 48127	Monday 10/02/18 10:00 am
	Date of Birth	07/07/1999 (19 Years Old)	Medical Conditions	Not Available	Phone #	(313) 777-7777	
	Sex	Female			Third Party	MACUSARX	
	Weight	Not Available					
	Height	Not Available					

Formative Pharmacist Medication Verification

TINA GOLDSTEIN, MD 57 NEWT STREET DETROIT, MI 48201 (313) 405-5111	
NPI: 1431564321	DEA #:
NAME: Katie Bell	AGE: 07/07/99
ADDRESS: 623 E. 68th St. Detroit, MI 48127	DATE: 09/29/18
Amphetamine Salts ER 10mg Take 1 capsule daily in the morning # 30 (thirty)	
0 REFILL(S)	
SUBSTITUTION PERMITTED	DISPENSE AS WRITTEN

Drug	AMPHETAMINE SALTS ER 10 MG
NDC	00781-0604-46
Drug Description	CIRCLE, BLUE B 973
DAW	0
Rx Origin	WRITTEN
SIG	TAKE 1 CAPSULE BY MOUTH DAILY IN THE MORNING
Prescribed Quantity	30
Refill Quantity	0
Refills Prescribed	0
Dispensed Quantity	30
Days Supply	30
Prescriber	GOLDSTEIN, TINA 57 NEWT STREET DETROIT, MI 48201 (313) 405-1111
Rx Date Written	10/02/2018
Rx Expiration Date	01/02/2019
Medication Cap	SAFETY

Successes and Lessons Learned for Future



- Felt successful in execution of the course as a whole
- Significant differences in scores between formative and summative OSCEs
- Changes would like to make next year to streamline course and OSCE process
 - Increase emphasis on student practice for OTC counseling prior to OSCE
 - Pilot all cases earlier next year to alleviate faculty pressure
 - “Front-load” all OSCE checklists for students and do a full 2-hour course orientation instead of interspersing in first few weeks
 - Move up the summative OSCE date to reduce pressure for students and faculty grading



Thanks to many contributors

Course contributors:

- The Late Dean Slaughter
- Summative Evaluation Committee of years past
- Curriculum Committee
- Course faculty
 - Faculty: Drs. Stewart, Fava, Kale, Berti, Mohammed, Smythe
 - Teaching residents and P4 students
- Assessment Grant from Provost Office
- Sheila Wilhelm, PCL
- Stephanie Fern, Tim Oram, and other Class of 2019 students
- Staff and SPs at Kado Clinical Skills Center
- Wonderful students from the Class of 2020 who were in the inaugural Clinical Capstone

