

L.S. Skaggs College of Pharmacy

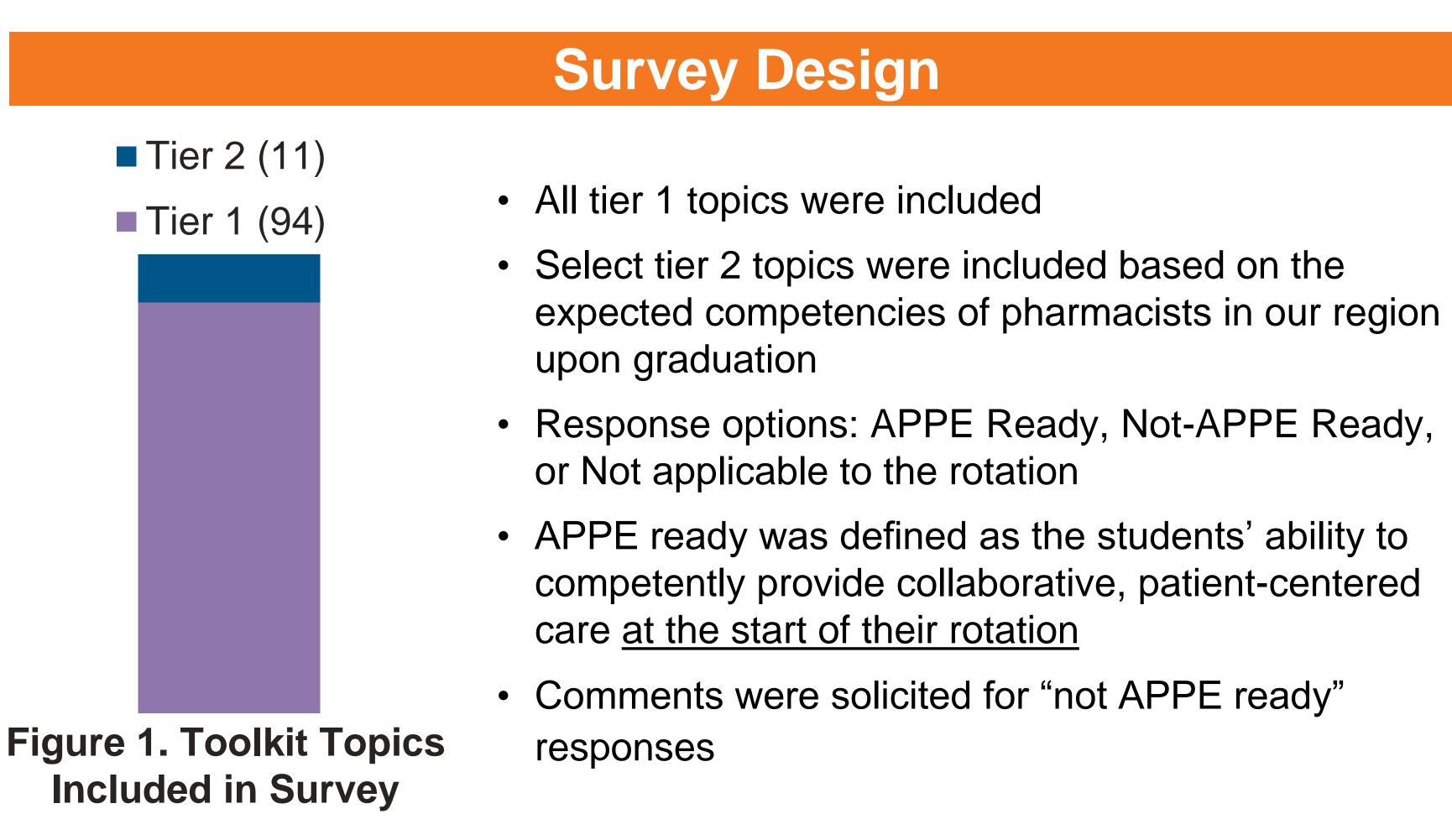
Assessing APPE Readiness: Feedback from Core Rotation Preceptors Using the ACCP Pharmacotherapy Didactic Curriculum Toolkit

Erin Berry, PharmD, BCPS; Brooke Buffat, PharmD, BCPS; and Tanya L. Ostrogorsky, EdD L.S. Skaggs College of Pharmacy, Idaho State University, Pocatello, Idaho

Study Purpose

Assess pharmacotherapeutic APPE readiness at the programmatic level utilizing the 2019 ACCP Pharmacotherapy Didactic Curriculum Toolkit and feedback from core rotation preceptors.

Results serve as a foundational resource for curriculum review and revision.



Respondents

- 67 preceptors who accepted at least 3 APPE students on a core rotation over the past two years were invited to participate
- 47% (N = 32) of active core preceptors completed the entire survey

Figure 2. Respondent Rotation Type

Institutional

General Medicine

Community

Ambulatory Care

0% 5% 10% 15% 20% 25% 30% 35% 40% 45% Percentage of respondents in each core rotation

- 49% of respondents indicated they precept 5-8 APPE students per year
- 51% of respondents have been preceptors for ≤5 years

Outcomes

- There were 21 topics where ≥20% of preceptors perceived that students were not APPE ready
 - Tier 2 topics represented 33% (n = 7) of the not-APPE ready topics
- Responses and comments indicated that APPE readiness was generally lower for inpatient heavy topics

Tier	% Not ready at the beginning of rotation	beginning of Topics		0/ Not roady at the	
1	44.8%	Renal, Fluid, and Electrolyte Conditions - Electrolyte disorders (potassium, calcium, phosphorus, magnesium)	Tier	% Not ready at the beginning of rotation	Topics
1	41.4%	Cardiovascular Conditions - Arrhythmias, atrial (e.g., atrial fibrillation)	<u>-</u>		
1	37.9%	Cardiovascular Conditions - Venous thromboembolism, prevention and treatment	2	27.6%	Gastrointestinal Conditions - Cirrhosis, end-stage liver disease, and complications
1	37.9%	Hematologic Conditions - Anemias (e.g., iron deficiency, vitamin B12 deficiency, folic acid			
		deficiency, chronic disease/inflammation)	2	24.1%	Cardiovascular Conditions - Hypertensive crises
1	34.5%	Endocrine Conditions - Diabetes, type 1	2	24.1%	Cardiovascular Conditions - Stroke (ischemic, hemorrhagic, and
1	34.5%	Hematologic Conditions - Drug-induced hematologic disorders (including heparin-induced thrombocytopenia)	2	24.1%	transient ischemic attack) Endocrine Conditions - Hyperglycemic crises (diabetic
1	31.0%	Gastrointestinal Conditions - Drug-induced hepatic disorders			ketoacidosis [DKA], hyperosmolar hyperglycemic state [HHS])
1	27.6%	Cardiovascular Conditions - Ischemic heart disease	2	20.7%	Acute coronary syndromes (ST-elevation myocardial infarction [STEMI], non-ST elevation myocardial infarction [NSTEMI],
1	27.6%	Psychiatric and Behavioral Conditions - Alcohol use disorder (including alcohol withdrawal)	_		
1	27.6%	Psychiatric and Behavioral Conditions - Opioid use disorder (including opioid withdrawal)			unstable angina)
1	24.1%	Nutritional Conditions - Nutrient deficiency and excess (including vitamins and trace minerals)		20.7%	Critically III Patients- Sepsis and septic shock
1	20.7%	Cardiovascular Conditions - Atherosclerotic cardiovascular disease, secondary prevention	_ 2	20.7%	Renal, Fluid, and Electrolyte Conditions - Acute kidney injury (prerenal, intrinsic, and postrenal)
1	20.7%	Toxicologic Conditions - Acetaminophen toxicity			

Actions Taken

Special Populations - Geriatrics - Falls and fall-risk-increasing drugs (FRIDs)

College Level

20.7%

- Development of ISU specific toolkit with inpatient and outpatient foundational topics emphasized
- Standardized content mapping in annual course reviews

Coordinator/instructor Level

- Assess for appropriate placement, depth, and breadth of flagged topics
- Evaluate pedagogies and assessments utilized
- Consider intentional scaffolding throughout the curriculum

Limitations

- This study did not control for the timing of the rotation during the APPE year (i.e., first APPE vs. last APPE)
- Other aspects of APPE readiness (ex., professionalism, Entrustable Professional Activities, etc.) were not measured in this survey

Reference

• Flannery AH, Soric MM, Benavides S, et al. 2019 Update to the American College of Clinical Pharmacy Pharmacotherapy Didactic Curriculum Toolkit. *J Am Coll Clin Pharm*. 2020; 3: 455–464. https://doi.org/10.1002/jac5.1178