

UNIVERSITY OF SOUTH FLORIDA
GERIATRIC WORKFORCE
ENHANCEMENT PROGRAM
(GWEP)
FACULTY
DEVELOPMENT
MASTERWORKS
SERIES

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Providers of Continuing Education

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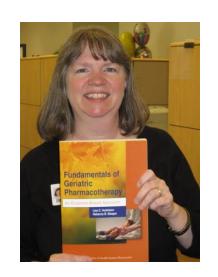
Geriatrics Rocks! (in Little Rock)



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Disclosure

 Co-editor of geriatric pharmacotherapy textbook "Fundamentals of Geriatric Pharmacotherapy" Ist and 2nd editions



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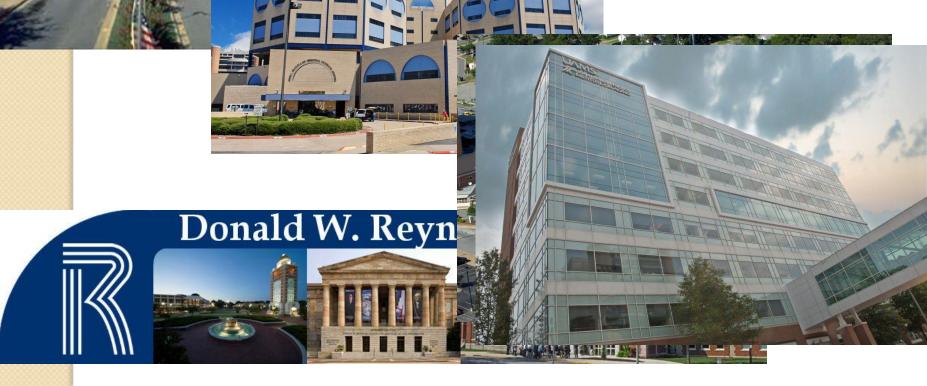
Objectives

- Describe opportunities for didactic and active learning activities with Geriatric emphasis
- Outline the components of four interprofessional education opportunities focused in Geriatrics



FOR MEDICAL SCIENCES





Geriatric Pharmacy Education

- Integrated Curriculum
- Stand-alone Geriatric Elective
- Other Companion Electives
 - Death and Dying
 - Drug-Induced Diseases
- Extracurricular Opportunities
 - Summer Research Scholarships

Early Didactic Curriculum

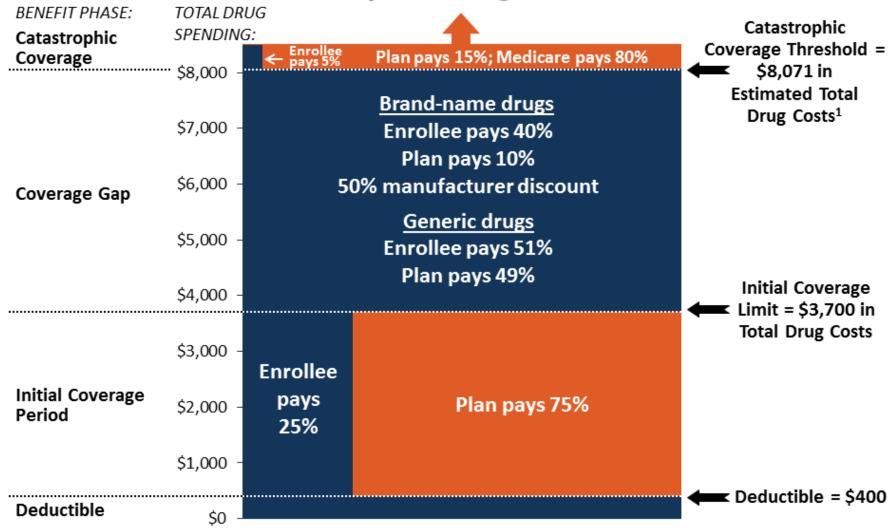
- Communications
 - Older Adults
 - Lectures/Simulations
- Clinical Pharmacokinetics in Older Adults
 - Absorption, Distribution, Metabolism & Excretion problems illustrated by cases
 - Pharmacodynamics and Interactions
 - How to evaluate new drugs

U.S. Healthsystems for Pharmacists

- Medicare Part D
 - 2 hour lecture
- Walk through Medicare.gov "Find health
 & drug plans"
 - Middle income, Low income, Dual eligible,
 Low income subsidies, Medicare Advantage
- Medication Therapy Management
 - History of policy changes pushed by needs of older Americans

Figure 5

Standard Medicare Prescription Drug Benefit, 2017



NOTE: Some amounts rounded to nearest dollar. ¹Amount corresponds to the estimated catastrophic coverage limit for non-low-income subsidy (LIS) enrollees (\$7,425 for LIS enrollees), which corresponds to True Out-of-Pocket (TrOOP) spending of \$4,950, the amount used to determine when an enrollee reaches the catastrophic coverage threshold in 2017.

SOURCE: Kaiser Family Foundation illustration of standard Medicare drug benefit for 2017.



Case Study #1

Ernest is a widower who lives in Mena, AR, 71953 and will turn 65 years old next month. He has signed up for Medicare Parts A/B. He has no outpatient drug coverage and is not eligible for additional help (LIS). He would like information on stand-alone PDPs. He uses Walmart pharmacy.

Current Meds: metoprolol 50mg bid, Diovan HCT (generic) 160/12.5 daily, Advair Diskus 250/50 bid

Case Study #2

 Ms. Wanda has both Medicare & Medicaid and she lives in Zipcode 72204. She asks which Part D plan is best for her. She has been using the Medic Pharmacy on 12th St in LR.

Meds: Citalopram 20 mg Daily, Donepezil
 23mg HS, Lorazepam 0.5 mg BID PRN anxiety,
 Toviaz 4mg HS

Case Study #3

Ms. Joanne recently moved in with her daughter (Zipcode 72223). She asks what MA plans would be best for her in new location. She does not receive LIS, but wants to use Cornerstone or Kroger Pharmacy. Interested in dental and vision coverage.

Meds: Lisinopril 20mg daily, Crestor 10mg daily, Toprol XL 50mg daily, Sertraline 50mg daily, Pradaxa 150mg BID

P3 Year: Required Courses

- Therapeutics: Neurology/Geriatrics
 Section
 - Neurology-Epilepsy, Headache, Sleep
 - Geriatrics Pharmacotherapy Concepts
 - Alzheimers Disease and other Dementias
 - Parkinsons Disease
 - Pressure Ulcers
- Patient Assessment
 - Family including Grandparents

Geriatric Therapeutics Foundational Lectures

- Biology of Aging
- Geriatric Assessment (Active Learning)
- Medicare, Medicare Part D Refresher
- Adverse Drug Events
- Quality Prescribing
- Comprehensive Medication Review
- Nursing Homes & Consultant Pharmacy
- Hospice & Palliative Care

Varied Lectures from Student Interests

- Geriatric Syndromes
 - Dementia/Delirium
 - Falls
 - Malnutrition
 - Sleep
- Health Promotion/Disease Prevention
 - Immunizations
 - Vitamins/Dietary Supplements
 - Nutrition

Elective Active Learning Activities

- Adopt-A-Patient
- Medicare Part D Planning Clinic
- Adverse Drug Events Journal Article
- Geriatric Medication Simulation Game

Adopt-A-Patient

- 3 visits (I per month) with older adult
 - Visit I: Learn about person
 - Visit 2: Perform assessments
 - Visit 3: Review medications
- Presentation as the "final" for the course
 - Description of person and visits
 - Provide results and interpretation of assessments
 - Review medication list with assessment
 - Review a disease state and its treatment

Medicare Part D Planning Clinic

- October/November Open Season
- Organizing the Clinic
 - Days, Scheduling, Marketing
- Preparing for the Clinic
 - Handouts, Calls, Signs
- Providing the Clinic
 - A 4 hour session replaces 2 hours class time

Adverse Drug Events Journal Article

- Presentation uploaded in BlackBoard
- Critique 4 other Students' Presentations
- Upload in BlackBoard

Geriatric Medication Game





Intergenerational Volunteer Award



Advanced Experiential Opportunities

- Institute on Aging Rotations
 - Acute Care Geriatric Consult Service
 - Ambulatory Care Longevity Clinic
- Monthly rotation
 - Required 160 hours

Joint Rotation Activities

- Journal Club
 - Select articles from master list

- Adopt-A-Patient
 - Visit weekly in patient home or clinic X 3
 - Presentation during 4th week

Other Exposures-LTC

- State Veterans Nursing Home
- I-2 days
 - Greenhouse philosophy
 - 8 buildings will have 12 residents in each



Post-Graduate Education

- PGY I-M.Ed. Geriatric Pharmacy Residency (over 2 years)
- PGY2 Geriatric Pharmacy Residency





Other Exposures

- Hospice-I-2 days
 - Visit to Acute Hospice
- Coumadin Clinic
 - Longevity Clinic
 - 4 hour clinic
- Writing Assignment
 - AGEC Newsletter Column
 - Teaching Case

IPE Activities

- Home Health Simulation
- Pharmacotherapy Workshop
- Palliative Care/Hospice
- IPE Grant Mental Health

Home Health Simulation

- Medicine/Nursing/Pharmacy
- Clyde Jenkins
- Home visits & Staffing meeting



UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES

Simulation Fosters Interprofessional Skills among Nursing, Pharmacy and Medical Students

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University of Arkansas for Medical Sciences
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Background

Opportunities to learn effective team skills in the entry-level curricula are sparse. We sought to integrate human patient simulators and an interprofessional educational experience to train nursing, pharmacy and medical students assessment and interprofessional skills in their geriatric curricula.

Methods

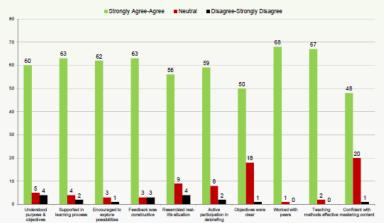
Two unfolding cases provided simulations for nursing students (N4s) in their geriatric course. N4s alternatively performed assessments on the simulated patient or watched via remote camera. Following this, pharmacy (P4s) and medicine (M4s) students joined the N4s for a simulated staff meeting. N4s presented their findings and assessment, answering questions from the other disciplines. The staff meeting ends with a delineated plan of care for the patient. The case continues to unfold with the patient's arrival at the simulated emergency department. N4s perform initial assessment of the simulated patient and are joined by the P4s and M4s to continue assessment and implementation of a new plan of care. The simulation ends with initiation. of antibiotics for treatment. At the conclusion of the simulation, students meet to discuss what went well and what could be improved.

Timeline

Morning Session	Afternoon Session	
N4 students start alone	M4 and P4 students join group	
Orient & cover objectives	Orient & cover objectives	
Split into 2 groups	Listen to home health scenario	
Listen to scenarios	Conduct Home Health Staffing	
3 students assess pts	Fast-forward 5 weeks to next scenario	
One pt is a home health pt	3 N4 students assess pt in ER	
One pt is in the hospital	Other N4s watch on monitor	
Others watch on monitor	M4 & P4 students join simulation	
Re-group and debrief	Re-group and debrief	

Results

69 students participated in 6 sessions of 9-13 students. There were 53 N4s, 7 P4s, 3 post-graduate year 1 pharmacy residents and 6 M4s.





Conclusion

Combining high-fidelity patient simulations of geriatric patients with interprofessional interactions was well-received by students from nursing, pharmacy and medicine. This process allows students from multiple professions to learn and practice different team skills prior to beginning their professional practice.

Reference

Unfolding Cases adapted from the National League for Nursing Simulation Innovation Resource Center

UAMS NURSING

Interprofessional Simulation Experience

COLLEGE OF Berryman, S.N., DNP, CNS-BC₁; Ragsdale, P.S., MSN, CNS-BC₁; Hutchison, L.C., Pharm D₂; Bilbruck, T.J., MD₃; Huff, D.C., MNSc₄; RN; Jennings, J., MSN, RN, Lofton, T., MSN, RN, Rainey, L.M., MSN, RN

Problem and Purpose

The expectation for healthcare professionals to work collaboratively is complicated by the fact that students are educated almost exclusively within their own discipline. The purpose of this project was to examine the impact of shared simulation learning experiences for students from multiple healthcare disciplines.

PICO Format Question

In pre-licensure nursing, pharmacy, and medical students, does shared participation in human simulation scenarios provide a more meaningful, authentic and effective educational experience than traditional methods of printed material and role play exercises to learn communication and team building skills?

EBP Model/Process

The ACE Star Model of Knowledge Transformation containing elements of discovery, summary, translation, integration, and evaluation is the model used.

Relevant Literature

- · Human patient simulations provide opportunities for learning and practicing complex skills in a safe environment.
- · Unfolding Cases help students understand the evolving and complex care needs of the geriatric client and family (National League for Nurses, 2010).
- Future of Nursing report (Institute of Medicine, 2010) emphasized teamwork and collaboration in undergraduate education.
- · Shrader (2011) reported pharmacy and medical student satisfaction with shared simulated learning exercises.

Student Participants

- Nursing
- Pharmacy
- Medicine

Results



The teaching methods used in the simulation were helpful & effective Responses

■ Neutral



Method

- Teams consisting of 7-10 nursing students, 1-2 medical students, 1-2 pharmacy students, and 3 faculty facilitators rotated through the simulated scenarios.
- . Unfolding Case character selected for the was Red
- Nursing students simulated an initial home visit to assess Mr. Yoder's diabetic foot ulcer, then shared assessment findings with medical and pharmacy students in a team conference and students collaboratively developed a plan of care.
- Interprofessional conference consisted of nursing. medicine, and pharmacy students who assessed Mr. Yoder in an ED simulation and worked through the scenario involving typical presentation of sepsis.
- . Information was communicated using the SBAR framework (Situation Background Assessment and Recommendation) and each scenario was followed with debriefing to allow students to verbalize their perceptions and findings.



Outcomes

- Debriefing was rich with conversations about diagnostic conclusions, treatment plans, best practice standards, patient resources, and scope of practice.
- In reflective notes later submitted to faculty students described having a deeper understanding of the inter-related roles of the healthcare team members.
- · Most students suggested there should be more experiences like this throughout their training.



Conclusions

- Positive outcomes from this project indicate innovative interprofessional simulations are more meaningful, realistic, and effective strategies than readings and role play in developing interdisciplinary communication and team work
- Exercises like these could provide pre-licensure students with an opportunity to learn essential skills needed for collaborative practice.

References

- Institute of Medicine, 2010
- 2. National League for Nurses, 2010
- 3. Shrader . 2011

Interprofessional Team Conference

Pharmacotherapy Workshop

- Medicine/Pharmacy
- Beers List Review & Application
- Rotate monthly presentation with
 - Clinic pharmacist
 - Pharmacy residents (Teaching Certificate)

CASE B

Mr. X is a 92M with HTN, CAD (s/p DES to LCx 10y ago), COPD, diabetes, depression, and moderate dementia presenting for a new patient visit unaccompanied. Only complaints are fatigue, occasional lightheadedness, constipation, and urinary retention.

Height: 5'10" Weight: 158 lbs Allergy: NKDA

• Vitals:

BP: 165/88

HR: 50 bpm

RR: 16

 \circ O₂ Sat: 99% on room air

Current medications:

Metoprolol tartrate 50mg po BID

Lisinopril 10mg po daily

Aspirin 81 mg po daily

Clopidogrel 75mg po daily

Simvastatin 20mg po qhs

Advair 250/50 I puff BID

Glipizide 5mg po daily

Paroxetine 50mg po daily

Donepezil 10mg po daily

Ranitidine I50mg po BID

Terazosin 5mg po qhs

Acetaminophen 650mg po TID

Loratidine 10mg po daily

BMP:

CBC:

Na: 130

WBC:

K: 4.4

5.2

CI: 102

Hgb: 14.7

CO₂: 25

Hct: 45.1

BUN: 21

PLTs: 316

Scr: 1.5

Glucose:

67

AIC: 6.2

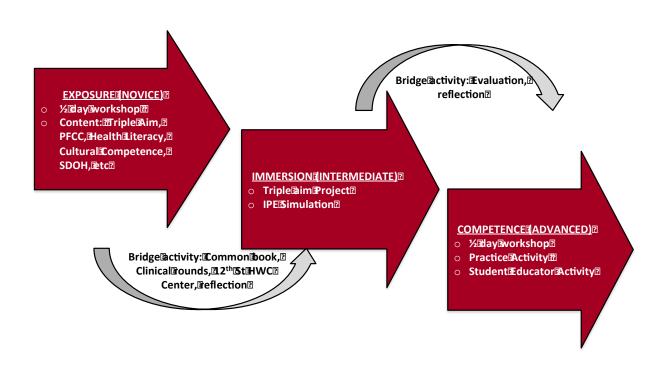
Palliative Care/Hospice

- Medicine/Pharmacy
- Weekly Discussion or Site Visits

IPE Curriculum at UAMS

12

IPE Triple Aim Curriculum at UAMS



IPE Grant Mental Health

- Nursing/Pharmacy students
 - 4th year Pharmacy students
 - APRN Nursing students
- Modules
 - Depression screening/diagnosis/mgmt
 - Pharmacologic Rx
 - Cultural Issues
- Simulation—2 hour
 - Evaluate patient and develop care recommendations
- Patient Assessments—2017-18

Integration of IPE Grant into Existing UAMS Curriculum

EXPOSURE PHASE (KEY CONCEPTS)	IMMERSION PHASE (IPE TEAMS)	COMPETENCE PHASE (ENTRY INTO PRACTICE)
Triple Aim	Patient Care Improvement	Complete a Project Activity-
IPE Domains		Simulation
Patient-Centered Care		Health Fair etc
Social Determinants of		
Health		
ADDITIONAL:	ADDITIONAL:	ADDITIONAL : Integrated
Integrated IPE	Integrated IPE	IPE Curriculum
Curriculum	Curriculum	
Exposure Workshops	Nurse-Pharmacist IPE Teams	GPNI Series
Depression Screening &	develop a proposal to	
Service Learning	eliminate mental health disparties in older persons	Interprofessional Service Learning Activity with
Faculty developed: Mental	using online discussions	Community Dwelling Older
Health Disparities &		Persons
Geriatric Pharmacology	Simulation Mental Health	
Responsive Design	Scenarios	

GWEP

Arkansas Geriatric Education Collaborative

- Health Professionals & Paraprofessionals
 - Mentors & Scholars program
 - Online self-study
 - Video-teleconferences
 - Quarterly 2 hour continuing education
 - Summer Institute for Faculty
 - Annual I week program-didactic + experience
 - Conferences
 - APRN Geriatric Pharmacology-annual
 - Geriatrics & LTC Update-annual
 - Geriatric Grand Rounds-weekly

Arkansas Geriatric Education Collaborative Community Programs

- Diabetes Self-management
- A Matter of Balance
- Alzheimer's Disease Experience
- Quarterly Newsletter

References/Resources

Hutchison LC, Sleeper-Irons RB, eds. Fundamentals of Geriatric Pharmacotherapy: An Evidence-Based Approach. 2nd edition Bethesda, MD: American Society of Health-system Pharmacists, 2015

Hayes C, Hutchison LC. Development and evaluation of a student-led Medicare Part D Planning Clinic. Consultant Pharmacist, 2013; 28:237-42

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Estus, EL, Hume, AL, Owens, NJ. Innovations in Teaching: Pharmacotherapy in Geriatrics: Improving Student Perception and Knowledge Through an Active Learning Course Model. Am J Pharm Educ 74(3): Article 38 (2010)

National Center for Interprofessional Practice and Education. https://nexusipe.org/

Arkansas Geriatric Education Collaborative. http://www.agec.org/