Reducing Geriatric Patient Risk at the Transition	
of Care from Hospital to Home	
of care from Hospital to Home	
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Aurora, CO ashp MIDYEAR 2017	
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Disclosure	
All planners, presenters, and reviewers of this session report	
no financial relationships relevant to this activity.	
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- Cermication Resources	
Learning Objectives	
Design a transitional care workflow in which pharmacists play	
an integral role using the Centers for Medicare & Medicaid	
Services Transitional Care Management billing criteria.	
Evaluate medications associated with post-discharge adverse drug property (ADEs)	
drug events (ADEs).	
Develop strategies to prevent ADEs after discharge.	

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Which of the following patients is most likely to be	
readmitted to the hospital?	
73-year-old male taking 4 medications and recently started on lisinopril	
80-year-old female taking 6 medications and living with her daughter	
85-year-old widowed male taking 10 medications with type 2 diabetes mellitus and heart failure with reduced ejection fraction returning home	
88-year-old female taking 7 medications recently diagnosed with atrial fibrillation and returning home with home health services	
Marcantonio ER. Am J Med.1999;107(1):13–17.	
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Certification Resources	
Hospital Discharge	
In the US, approximately 35 million patients are discharged from the hospital each year	
- Majority discharging home	
 In efforts to reduce hospital readmissions, discharge planning is mandatory for hospital accreditation 	
 Medication reconciliation or review is an important element for a successful transition 	
Healthcare Cost and Utilization Project. Agency for Healthcare Research and Quality. https://hcupnet.ahrq.gov/ . Mueller SK, et al. Arch Intern Med. 2012;172(14):1057-68.	
ashp	
a Certification Resources	
Transitional Care Management Billing Criteria	
Interactive contact	
Within 2 business days of discharge	
Non-face-to-face services	
Review discharge information, follow-up diagnostic tests/treatment, medication reconciliation	
Face-to-face visit	
– Within 14 days of discharge	

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Core Features of Transitions	
 Comprehensive assessment of health goals and preferences Implementation of an evidence-based plan of transitional care Care extending beyond discharge through home and telephone 	
visits	
Mechanisms to gather and share information across sites of care	
 Engagement of patients and family caregivers Coordination of services during and following hospitalization 	
Kim CS, Flanders SA. Ann Intern Med. 2013; 158(5 Pt 1):TC3-1. Burke RE, Coleman EA. IAMA Intern Med. 2013;173(8):695-8.	
Best Practice Transitional Care Models	
ashp MDYEAR 2017 Gertification Resources	
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Best Practice: Transitional Care Models	
The Care Transitions Intervention	
The Transitional Care Model	
The Haristonial care Model	
Project RED (Re-engineered Discharge)	
Coleman EA. Arch Intern Med. 2006;166[17]:1822-8. Naylor MD. J Am Geriotr Soc. 2006;52:657-84. Jack BW. Am Intern Med. 2009;15(3):178-87.	

The Care Transitions Intervention Patients 65 years and older Working telephone English speaking No plans to enter hospice Documented at least 1 of 11 diagnoses Stroke, congestive heart failure, coronary artery disease, cardiac arrhythmias, chronic obstructive pulmonary disease, diabetes mellitus, spinal stenosis, hip fracture, peripheral vascular disease, deep vein thrombosis, and pulmonary embolism Coleman EA. Arch Intern Med. 2006;166(17):1822-8.

The Care Transitions Intervention Medication Self-Management Patient-Centered Record Follow-up **Red Flags** • Patient is • Patient Patient is • Patient knowledgeable understands schedules and knowledgeable completes follow-up visits of worsening condition and about health record medications and has communicate knows how to management respond system Coleman EA. Arch Intern Med. 2006;166(17):1822-8.

The Care Transitions Intervention Transition coach (advanced practice nurses): — Met with patient in the hospital before discharge — Introduced patient to health record — Arranged a home visit (48-72 hours post-discharge) — Medication review and reconciliation — Reviewed "red flags" and discussed steps for management — 3 follow-up phone calls during the post-hospitalization period

	QShp Certification Resources
The Care Transitions Intervention	
 Lower hospital readmission rates in intervention grou 30% reduction at 30 days 17% reduction at 180 days 	p
 Lower hospital costs in intervention group 15% net savings in total hospitalization costs \$390 per patient 	

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Coleman EA. Arch Intern Med. 2006;166(17):1822-8.

The Transitional Care Model

- Patients 65 years and older with heart failure
- Working telephone
- English speaking
- Alert and oriented

Naylor MD. J Am Geriatr Soc. 2004;52:675–84.

				Certifica Resource
	The Trans	sitional Ca	re Model	
Adv	anced Practi	ice Nurse (A	PN) Interve	ntion
Daily visit while patient is hospitalized	Home visit within 24 hours of discharge	Weekly visits during 1 st month	Bimonthly visits during 2 nd and 3 rd month; also as needed	Telephone availability 7 days/week

ashp cortification	
The Transitional Care Model	
 Lower incidence of rehospitalization or death at 52 weeks in intervention group (p=0.01) 	
• The intervention group reported greater quality of life (p<0.05)	
 Mean total follow-up cost per patient at 52 weeks \$7,636 for the intervention group 	
 \$12,481 for the control group Total savings of \$4,845 per patient Naylor MD. J Am Geriotr Soc. 2004;52:675–84. 	
ashp. ashp. Resources	
Project RED (Re-engineered Discharge)	
Patients 18 years and older	
Working telephone	
English speakingExcluded discharges to skilled nursing facility (SNF) or other	
hospital, or planned hospitalization	
Jack BW. Ann Intern Med. 2009; 150(3): 178-87.	
ashp. ashp. Resources	
Project RED: In-hospital Care	-
Nurse Discharge Advocate	
Schedule appointmentsDiscuss tests and/or results	
– Confirm medications	
Review discharge planEducate	
Distribute discharge summary	

Assess understanding

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Project RED: After hospital care
Give patient written discharge plan: Reason for hospitalization Discharge medication list Contact information
 Information for follow-up visits Appointment calendar Information for tests and/or studies Solve problems and communicate with primary care providers
Jack BW. Ann Intern Med. 2009; 150(3): 178-87.
ash p
Project RED
The 30-day readmission and emergency department (ED) visit rate decreased by 30% in the intervention group compared with usual care
 The total cost in the intervention group was 33.9% lower for patients than the usual care group Saving an average of \$412 per person in the intervention group
Jack BW. Ann Intern Med. 2009; 150(3): 178-87.
Which of the following is true regarding transitional care models?
Transitional care models have not found improvement in quality of life for patients with discharge follow-up
It is best to start the transitional care process once the patient is at home
 A transitional care model can help patients save money The transitional care model should utilize nurses, not pharmacists, to reduce readmissions

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Madiantiana and Dandariasiana	
Medications and Readmissions	
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Hospital Discharge: Medication Discrepancies	
 Medication discrepancies occur in up to 70% of patients at admission or discharge 	
 One-third have the potential to cause harm 	
Adverse drug events (ADEs) occur in 12 to 17% of patients after baseign disabases.	-
hospital discharge	
Medication ADEs ED visits and hospital	
discrepancies	
Mueller SK, et al. Arch Intern Med.2012;172(14):1057-68.	
ashiperification	
Hospital Discharge: Medication Reconciliation	
Systematic review of the medication reconciliation process:	
 15 studies included involving pharmacists, pharmacy residents and pharmacy technicians 	

Mueller SK, et al. Arch Intern Med.2012;172(14):1057-68.

-Mixed effects on preventable ADEs (1 of 2 studies) and healthcare utilization (2 of 7 studies)
-1 study: Reduced ED visits (47%) and drug-related readmissions (80%)

-10 studies: Reduced medication discrepancies-2 studies: Reduced potential ADEs

−<u>1 study</u>: Reduced 30-day ED visits/readmissions

Hospital	Readmission
Readmission risk factors:	
Present at Initial Admission	Present at Initial Discharge
Age ≥ 80 years	Failure to ambulate
Previous admission within 30 days	≥ 10 discharge medications
≥ 5 comorbid conditions	No patient/family education
History of depression	Discharge to an extended care facility
Pre-illness cognitive/functional impairment	Acute mental status change within 24 hours

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Preventability and Causes of Readmis	ssions
 Analysis of 1000 readmitted patients found 269 readmed be potentially preventable 	nissions to
Medication-related risk factors:	
 Inadequate monitoring for adverse effects or nonadherence (p<0. Patient/caregiver misunderstanding of discharge medications (p<1. Inadequate steps to ensure the patient can afford medications (p=0.004) 	0.001) =0.001)
- Errors in discharge orders (p=0.006)	
 Drug-drug or drug-disease interaction (p=0.02) 	

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Auerbach AD, et al. JAMA Intern Med. 2016:176(4):484-93.

Transitional Care Models: Incorporating Pharmacists

- Prospective study with ST-Elevation Myocardial Infarction (STEMI) patients (n=135)
- Pharmacist intervention (n=40):
 - Medication reconciliation
 - Medication education
 - Post-discharge phone calls within 48-72 hours
- All-cause readmission at 30 days decreased from 13% to 5% (p=0.18)
- Medication adherence and literacy scores improved at 30 days post-discharge (p=0.0005)

Budiman T. Ann Pharmacother. 2016; 50(2):118-24.

aship	
Transitional Care Models: Incorporating Pharmacists	
Prospective, randomized study of internal medicine units (n=278)	
• Inclusion:	
Discharge to home Discharge on > 3 scheduled prescription medications or 1 high-risk medication services related to the prescription and the prescription of the prescription	
(anticoagulants, antiplatelets, hypoglycemic agents, immunosuppressants or anti-infectives)	
Pharmacist intervention (n=137): Face-to-face medication reconciliation	
Pharmacy care planDischarge counseling	
Post-discharge phone call at 3, 14, and 30 days Phatak A. J Hosp Med. 2016; 11(1):39-44.	
ashp	1
Certification	
Transitional Care Models: Incorporating Pharmacists	
380 medication discrepancies in intervention group versus 205	
in control group (p<0.0001)	
 55 patients in control group versus 34 patients in intervention group readmitted (p=0.001) 	
• 18 patients in control group versus 11 patients in intervention	
group experienced ADEs (p=0.22)	
Phatak A. J Hosp Med. 2016; 11(1):39-44.	
Identification of Adverse Drug Events (ADEs)	
ashn	



Incidence of ADEs

- ADEs cost up to \$30.1 billion per year in the U.S.
- At hospital discharge, 30% of patients have at least 1 medication discrepancy
- Approximately 1.5 million preventable ADEs occur each year in the U.S.
- 1 in 5 patients experience an adverse event within 3 weeks after discharge
 - 60% medication related

Institute of Medicine. Preventing medication errors: quality chasm series. Washington (DC): National Academies Press; 2007. 480
National Transitions of Care Coalition. Improving transitions of care. September 2010
http://www.ntoc.org/portal/pl/pdf/resources/ntocissuedries/api.



Identification of ADEs

- Surveillance study of patients 65 years and older with a hospitalization due to an ADE
- 265,802 ED visits with 99,628 hospitalizations (38%)
- 4 most common medications/classes:
 - Warfarin (33%)
 - Insulins (14%)
 - Oral antiplatelets (13%)
 - Oral hypoglycemic agents (11%)

Budnitz DS. N Engl J Med. 2011; 365:2002-12.

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Identification of ADEs

- Prospective cohort study (n=400)
- Primary outcome: incidence of ADEs after hospital discharge
- 45 (11%) patients experienced an ADE and 16% readmitted
 - Antibiotics (n=14)
 - Corticosteroids (n=7)
 - Cardiovascular (CV) agents (n=7)
 - Analgesics/narcotics (n=5)
 - Anticoagulants (n=4)

Forster AJ. J Gen Int Med. 2005; 20:317-23.

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Identification of ADEs
Cohort study of Medicare enrollees for 1 year
 <u>Primary outcome</u>: number of ADEs and preventability 1523 ADEs identified
 Medication classes: CV agents (26%), antibiotics (14.7%), diuretics (13%), analgesics (12%), anticoagulants (8%), hypoglycemic agents
(7%), and steroids (5%)
 421 (28%) classified as preventable Errors in monitoring (61%), errors in prescribing (58%), errors in
patient adherence (21%) Gurwitz JH. JAMA. 2003; 289:1107-16.
ash partification Resources
Medications Likely to Cause ADEs?
Analgesics/opioids
• Antibiotics
Anticoagulants
• Antiplatelets
Cardiovascular agentsHypoglycemic agents
Typogyceime agents
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Which of the following medications is most likely to
cause post-discharge adverse drug events?
Amiodarone
Levothyroxine
PantoprazolePravastatin



Screening for ADEs Post-Discharge

- Review all medications with the patient
 - Ask about over the counter medications and supplements
- Ensure appropriate medication, dose, frequency, and duration
- Ask the patient about side effects
- Ensure appropriate follow-up monitoring
- Notify the provider of any discrepancies or adverse effects
- Update the medication list

Naranjo CA. Clin Pharmacol Ther. 1981; 30:239-45



Tools to Screen for ADEs

- Medication Appropriateness Index
- Beers criteria for potentially inappropriate medication use in older adults
- STOPP (screening tool of older person's prescriptions)
- Screening medication lists and adjustments made based on renal function

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Medication Appropriateness Inde	ex
Questions for each individual medication	
1. Is there an indication for this medication?	
2. Is the medication effective for the condition?	
3. Is the dosage correct?	
4. Are the directions correct?	
5. Are the directions practical?	
6. Are there clinically significant drug-drug interactions?	
7. Are there clinically significant drug-disease/condition interactions?	
8. Is there unnecessary duplication with other medications?	
9. Is the duration of therapy acceptable?	
10. Is the medication the least expensive alternative compared with others of e	qual utility?
Hanlon JT. J Clin Epi	demiol. 1992; 45:1045-51.

ash perification as the pe
2015 Beers Criteria
Updated version soon to be released (2018)
Includes the following lists:
 Potentially inappropriate medication use in older adults
 Drug-disease or drug-syndrome interactions
 Use with caution in older adults
 Non-anti-infective drug-drug interactions
 Non-anti-infective medications that should be avoided or have their dosage reduced with varying levels of kidney function
American Geriatrics Society. J Am Geriatr Soc. 2015; 60:616-31.

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Utilizing the 2015 Beers Criteria

- Prospectively look at "flagged medications"
- Assess drug-disease or drug-drug interactions
- Ensure patient is on appropriate renally-adjusted dose
- Recommend switching medications if a patient is on an inappropriate medication

Hanlon JT. J Am Geriatr Soc. 2015; 63(12):e8-e18.

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ADEs Post-Hospital Discharge: Involvement of Beers Criteria Medications

- Clinical pharmacists reviewed 1000 hospital discharges:
 - Patients age 65 years and older
 - Discharged to the community
 - Discharged for a non-psychiatric condition
- Reviews were to identify drug-related incidences during the 45-day post-hospital discharge period:
 - Hospital discharge summary and ED visits
 - Office notes
 - $\boldsymbol{\mathsf{-}}$ Telephone encounters and communication between patient and provider

Kanaan AO. J Am Geriatr Soc.2013;61(11):1894-99.

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ADEs Post-Hospital Discharge: Involvement of Beers Criteria Medications
 242 ADEs identified and confirmed by physician reviewers
 84 ADEs classified as preventable
—Electrolyte related events, gastrointestinal events, etc
 40 ADEs involved 1 or more Beers Criteria medications
-36 involved 1 or more potentially inappropriate drugs
-Most common being nonsteroidal anti-inflammatory drugs (NSAIDs)
Conclusion: Beers Criteria medications are associated with a
small proportion of ADEs and may lead to less severe events
Kanaan AO. J Am Geriatr Soc. 2013;61(11):1894-99.

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STOPP Criteria

- Evaluates medication overuse
- Evidence that the STOPP criteria identifies ADEs associated with acute hospitalization 2.8 times more often than Beers Criteria
- Medications not included in the Beers Criteria
 - Thiazide diuretics in patients with gout
 - Nonsteroidal anti-inflammatory drugs in patients with hypertension
 - Alpha-blockers in males with urinary incontinence

Hamilton H. Arch Intern Med. 2011;171(11):1013-1019.
Gallagher P, et al. Int J Clin Pharmacol Ther. 2008; 46:72-83. O'Mahony D, et al. Eur Geriatr Med. 2010; 1(1):45-51

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Resources

ADEs and Utilization of STOPP Criteria

- Prospectively studied 600 admitted patients:
 - Compared the prevalence of ADEs associated with potentially inappropriate medications listed by STOPP criteria and Beers criteria
 - 329 ADEs, 235 classified as avoidable or potentially avoidable
 - -159/235 ADEs involved STOPP criteria medications (p<0.001)
 - -67/235 ADEs involved Beers criteria medications
 - ADEs included:
 - —Falls with benzodiazepines
 - $\\ Symptomatic orthostasis with antihypertensives$
 - —Falls with opiates

Hamilton H. Arch Intern Med. 2011;171(11):1013-1019

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Oral Dosing of Renally Excreted Drugs				
Drug	CrCl (mL/min)	Maximum Dose		
Apixaban	< 25	Avoid use		
Ciprofloxacin	< 30	500 mg every 24 hours		
Colchicine	<30	Reduce dose; monitor adverse effects		
Duloxetine	< 30	Avoid use		
Gabapentin	30-59; 15-29; <15	200-700 mg twice daily; 200-700 mg daily; 100-300 mg daily		
Glyburide	< 60	Not recommended		
Memantine	< 30	5 mg twice daily; ER 14 mg daily		
Nitrofurantoin	< 30	Avoid use		
Pregabalin	< 60	Reduce dose		
Rivaroxaban	< 30	Avoid use		
Spironolactone	< 30	Avoid use JAm Geriatr Soc. 2015; 60:616-31.		



Takeaways From Tools

- The Medication Appropriateness Index is a tool that can be used when reviewing medications after discharge, especially newly started medications
- Beers Criteria and STOPP Criteria have not been shown to reduce hospitalization
 - Useful as tools to help prevent ADEs
- Ensuring appropriate doses based on renal function may decrease electrolyte abnormalities and ADEs

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Which of the following patients is taking an inappropriate medication?

- 79 year old male with HFrEF and CrCl = 42 mL/min taking spironolactone 25 mg tablet daily
- 88 year old female with diabetes mellitus and arthritis with CrCl = 34 mL/min taking metformin 500 mg tablet twice daily and tramadol 50 mg tablet every 6 hours as needed for pain
- 75 year old male with atrial fibrillation and CrCl = 28 mL/min taking apixaban 5 mg tablet twice daily
- 82 year old female with neuropathic pain and CrCl = 25 mL/min taking gabapentin 300 mg capsule three times daily



Patient Case Scenario

- 76-year-old male was admitted due to a heart failure exacerbation. He was discharged home on Saturday with a discharge medication list and the inpatient team arranged for him to have home health services post-discharge.
- The patient lives alone and has a daughter who lives ~3 hours away who provides him transportation to appointments.
- You are a pharmacist in his Primary Care Clinic involved in transitions of care. You call the patient to review his medications.

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Patient Case Continued

- You note the following discrepancies during your phone call:
 - The patient has both citalopram and escitalopram at home
 Discharge medication list has escitalopram listed
 - The patient has been taking dofetilide since discharge
 Discharge medication list included dofetilide; however, the discharge summary states to stop dofetilide due to prolonged QTc interval of 537 ms
 - The patient does not have torsemide at home
 - —Torsemide was on the discharge medication list
 - When asked if the patient is taking any other medications that were not reviewed, he mentions taking ibuprofen 600 mg three times daily for knee pain

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	Certification Resources

Which of the following actions of the pharmacist will most likely help prevent a readmission for this patient?

- Advise the patient to not take any medications until the home health nurse is able to sort through them
- Call the patient's daughter to let her know what her father should be
- Resolve the medication discrepancies by telling the patient what he should be taking and schedule a follow-up phone call in 3 days
- Educate the patient that ibuprofen is not recommended due to his heart failure and he should discuss this at his appointment

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Key Takeaways	
Key Takeaway #1 A successful transitional care model begins when the patient is in the	_
A successful transitional care model begins when the patient is in the hospital. Key Takeaway #2	
Assessing medication appropriateness, including dose, duration, frequency, and side effects is an important component in preventing	
readmissions. • Key Takeaway #3	
- Ney Takeaway #3 - Utilizing tools such as the Beers Criteria and STOPP Criteria will help identify potentially inappropriate medications post-discharge.	
identity potentially mappiopriate medications post discharge.	
SAFELY HOME:	
Developing a Best Practice Model In Transitions from Skilled Nursing Facility to Home	_
	-
Crystal Burkhardt, Pharm.D., M.B.A., BCGP, BCPS	
Clinical Associate Professor University of Kansas – School of Pharmacy	
Lawrence, Kansas	
ashp MIDYEAR 2017 Resources	
aship	
Skilled Nursing Facility (SNF) Environment	
• Definitions	-
Barriers to effective care transitions Opportunities to improve care transitions	

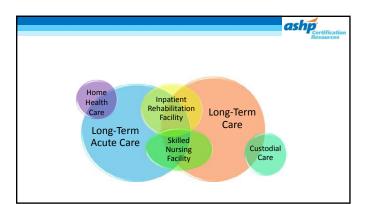
• Components of successful care transitions

• Pharmacist roles

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Definitions

- Post-acute care vs. Long-term care vs. Long-term acute care
- Skilled Nursing Facility vs. Rehabilitation Facility
- Focus on Skilled Nursing Facility



	asn Certification Resources
	Custodial Care
Custodial care inc	ludes
 Help with bathing 	g or dressing
 Not covered by N 	ledicare
• Wide array of loca	ations
– Home Care	
 Assisted Living 	
 Nursing Homes 	



Post-Acute Care/Long-Term Acute Care

- Following a change in health status that demands increased intervention with patient at a stabilized baseline
- Medical evaluation identifies intervention to regain function
 - Physical Therapy
 - Occupational Therapy
 - Psychological Therapy
 - Speech Therapy
 - Many More...

Inpatient Rehabilitation Facility (IRF)

- Admission appropriate for patients with complex nursing, medical management, and rehabilitative needs
- Must require
 - Multiple therapy disciplines
 - Intensive rehabilitation therapy program
 - 3 hr/day x 5 days/week or 15 hr within a 7-consecutive day period
 - Active participation in & benefit significantly from
 - Rehab physician supervision
 - Intensive & coordinated interprofessional team approach

Centers for Medicare and Medicaid Services. July 2012. Inpatient rehabilitation therapy services: Complying with Documentation Requirement https://www.mrs.gov/Outreach-and-Education/Medicare-Learning-Newton
MLN/MLNProducts/downloads/inpatient_Rehab_Fact_Sheet_LCM90543.pdf. 2017 Oct 1

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Skilled Nursing Facilities (SNF)

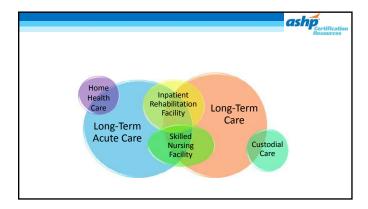
Day Requirements

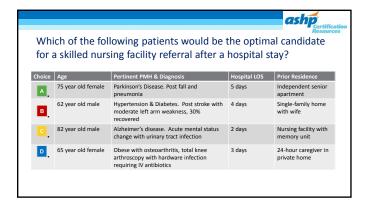
- Hospitalized x 3 consecutive days
- SNF admission within 30 days of hospital discharge
- Recertify need at day 5 & 14 after admission, and every 30 days
- SNF stay = 100 days or less
- Medicare must approve length of

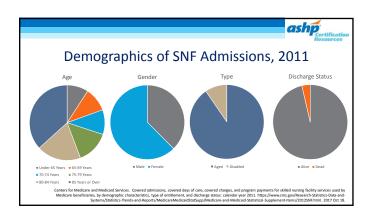
Skill Requirements

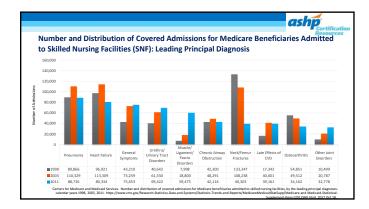
- Related to hospital-treated conditions
- Require daily skilled nursing or rehab services
- Can only be provided inpatient
- Specify need for daily skilled care
- Medicare review & approval for continued skilled care

Centers for Medicare and Medicaid Services. Your Medicare Coverage: Skilled Nursing Facility (SNF) Care. https://www.medicare.gov/coverage/skilled-nursing-facility-care.html. 2017 Oct 18.











Where do they go from SNF?

- Home
- Long Term Care
- Assisted Living Facility
- 19-23% are readmitted to the hospital within 30 days of discharge

Mor V, et al. Health Aff 2010;29:57-64

Improving Transitions by Identifying Barriers

- 2008 National Transitions of Care Coalition (NTOCC)
 - Identified:
 - —Gaps in care—Costs of fragmented care
 - -Potential areas for improvement
- 2016 Consensus Best Practice Recommendations for Transitioning Patients' Healthcare from Skilled Nursing Facilities to the
 - Society of General Internal Medicine (SGIM)
 - Society for Post-Acute and Long-Term Care Medicine (AMDA)
 - American Geriatrics Society (AGS)

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National Transitions of Care Coalition (NTOCC)
Implementation and evaluation outline
Multiple resources developed
– Education & Awareness
– Tools & Resources
– Policy & Advocacy
– Performance & Metrics
 Health Information & Technology

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7 Steps to Improve Transitional Care Management					
(TCM)					
Improve communication					
Implement electronic medical records					
Expand role of the pharmacist					
Establish points of accountability					
Increase use of case management					
Implement payment systems					

National Transitions of Care Coalition. Improving transitions of care: the vision of the national transitions of care coalition. May 2008. http://www.ntocc.org/Portals/0/PDF/Resources/PolicyPaper.pdf. 2017 Oct 18.

• Develop performance measures

2016 SGIM-AMDA-AGS			
Transition Issue	Best Practice Recommendations SNF Primary Care Provide		
#1: PCP does not realize that patient is admitted to SNF.	Identify the correct community PCP and include identity in SNF chart.	Confirm and update PCP information and fields in charts.	
#2: Patient does not follow up or delays follow-up with PCP after SNF discharge.	Schedule a follow-up appointment with PCP within 7 days post-discharge from SNF.	Expedite scheduling of patients being discharged from SNF.	
#3: Information on care received at SNF and necessary follow-up is not received by PCP and outpatient team.	Transmit discharge instructions to the PCP office at time of patient discharge and a formal discharge summary within 72 hr of discharge. Oral report is given by SNF nurse and/or physician.	Read, follow up, and include information from the SNF physician in the outpatient record. Prepare outpatient staff for receipt of oral report from SNF staff.	
#4: Upon return home, patient has questions, faces inaccurate medication reconciliation, or does not receive vital services.	Ensure patient receives a phone ca	II 48 hr following SNF discharge. Lindquist LA, et al. <i>J Gen Intern Med</i> 2017:32;199-203.	

20	16 SGIM-AMDA	-AGS
Transition Issue	Best Practice SNF	Recommendations Primary Care Provider (PCP)
#1: PCP does not realize that patient is admitted to SNF.	Identify the correct community PCP and include identity in SNF chart.	Confirm and update PCP information and fields in charts.
		Lindquist LA, et al. J Gen Intern Med 2017:32;199-203.

20)16 SGIM-AMDA-A	ashp. GS GS	
Transition Issue Best Practice Recommendations SNF Primary Care Provide			
#2: Patient does not follow up or delays follow-up with PCP after SNF discharge.	Schedule a follow-up appointment with PCP within 7 days post-discharge from SNF.	Expedite scheduling of patients being discharged from SNF.	
		Lindquist LA, et al. J Gen Intern Med 2017:32;199-203.	

2016 SGIM-AMDA-AGS					
Transition Issue	Best Practice Recommendations SNF Primary Care Provider (PCP)				
#3: Information on care received at SNF and necessary follow-up is not received by PCP and outpatient team.	Transmit discharge instructions to the PCP office at time of patient discharge and a formal discharge summary within 72 hr of discharge. Oral report is given by SNF nurse and/or physician.	Read, follow up, and include information from the SNF physician in the outpatient record. Prepare outpatient staff for receipt of oral report from SNF staff.			
Lindquist LA, et al. J Gen Intern Med 2017:32:199-203.					

Transition Issue #4: Upon return home, patient has questions, faces inaccurate medication reconciliation, or does not receive vital services. Ensure patient receives a phone call 48 hr following SNF discharge. Loodquist LA, et al. J Gan Intern Med. 2007;32;199-205. Which of the following scenarios has been identified as a foundational potential barrier to effective transitions from SNF to home? Patient identified with new diagnosis during SNF stay Patient receiving new medications during SNF stay Patient's PCP not identified during SNF stay Patient's family lacks engagement in care during SNF stay Patient's family lacks engagement in care during SNF stay		ashp
##: Upon return home, patient has questions, faces inaccurate medication reconciliation, or does not receive vital services. Ensure patient receives a phone call 48 hr following SNF discharge. Lindquist LA, et al. J Gen Intern Med 2017:32;199-203. Which of the following scenarios has been identified as a foundational potential barrier to effective transitions from SNF to home? Patient identified with new diagnosis during SNF stay Patient receiving new medications during SNF stay Patient's PCP not identified during SNF stay Patient's PCP not identified during SNF stay	20	016 SGIM-AMDA-AGS
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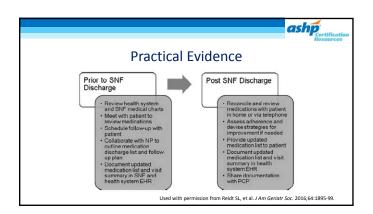
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Practical Evidence

- Systematic Review of SNF to Home Transitional Care
- 6 studies identified
 - -Randomized | non randomized | historical control
 - -Targeted older adults discharged from SNF to home
 - —Described influence of intervention on one of the following:
 - Mortality, hospital readmission, preparedness for discharge, functional status
 - —Pre-discharge, post-discharge, or bridging interventions
- Described resources needed to implement interventions

Toles M, et al. Geriatric Nursing 2016:37;296-301.

Intervention Characteristics Practical Evidence Intervention Characteristics Practical Evidence Intervention Characteristics Practical Evidence Intervention Characteristics Practical Evidence Intervention Evidence Int



	Intervention	Comparison	Analysis
Number of Patients	87	198	
30-Day Hospitalization Rate	9.2%	19.6%	P=0.02 OR 0.47 (95% CI = 0.21-1.08)
30-Day Emergency Department Rate	12.6%	24.9%	P=0.03 OR 0.46 (95% CI = 0.22-0.97)
Average MRP interventions	2.1 (35% Safety)		
Post-SNF Average Medication Related Problem Interventions	1.8 (46% Adherence)		

	ashpc-crification Resources
	How to Measure TCM Success - NTOCC
•	Structure - Accountable providers throughout - Plan of care tool - Health Information Technology (HIT) incorporated
•	Process — Care team process — Transfer of information between providers/care settings — Pt/Family education/engagement
•	Outcomes - Satisfaction: patient, providers - Health care utilization & costs
	National Transitions of Care Coalition. Transitions of Care Measures. May 2008. http://www.ntocc.org/portals/0/PDF/Resources/PolicyPaper.pdf. 2017 Oct 18.

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Opportunities in SNF Transitions • Readmission reduction

- Medication safety
- Payment for service

(C)	2017	American	Society of	Health-Systen	n Pharmacists

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Factors Associated with Readmission	
Following discharge to SNF Within 30 days: Older (mean age 81 years) White Within 7 days: <6 chronic illnesses Prior hospitalization within 1 year Rural zip code Myocardial infarction & pneumonia 	
 Urban Higher previous admissions INVERSE: Longer index hospital LOS Private insurance payer Within 8-30 days: Higher comorbidities 	
 UTI, femur fracture, & trauma Larger teaching hospitals Medicare as payer 	
Horney C, et al. <i>J Am Geriatr Soc</i> 2017:65:1199-205.	
ash perification	
Medication Safety Outcomes in SNF TCM	-
Medication discrepancies	-
Potential medication-related problems	
HospitalizationsEmergency department utilization	
Emergency department dimination	
Sinvani LD, et al. J Am Med Dir Assoc. 2013;668-72.	
Delant E , et al. <i>Pharmacottempy</i> , 2008;28:444-52, Reldt St, et al. <i>J Am Geriotr</i> 502. 2016;66:1895-9. Park HA, et al. <i>J Am Geriotr</i> 502. 2013;61:137-42.	
	_
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NH High-Risk Medications	
Patient Factors Medication Classes	
 >75 years Increased adverse anticoagulant Cardiovascular drugs 	
events • Opioid analgesics	
- Increased adverse fracture events - Associated with anticonvulsant	
- Associated with anticonvulsant,	

Antidiabetics

Al-Jumaili AA, et al. J Am Med Dir Assoc. 2017;18:470-88.

antidepressant, thiazide use

• >5 medications

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Which of the following patient scenarios has the <u>highest</u> risk of ADRs in the skilled nursing setting?	
 65 year old on warfarin taking 9 other medications 85 year old on hydrochlorothiazide taking 5 other medications 74 year old on lamotrigine taking 11 other medications 79 year old on metformin taking 3 other medications 	
ashp _{Certification} Resources	
Who are the Payers?	
TCM Current Procedural Terminology (CPT) code in office 99495 (mod complex, 14-days) 99496 (highly complex, 7-days) Incident-to CPT code in office 99211 (Physician based) G0463 (Hospital based) Medication Therapy Management (MTM) service in community pharmacy	
99605 (new) 99606 (established) 99607 (added 15min) Other stakeholders - 30-day post SNF all-cause penalty for hospital readmissions - October 1, 2018	
American College of Cinical Pharmacy, Payment Methods in Outputien Toam Based Clinical Pharmacy, Practice, Part 1, Agri 2015, sweeper, complaint 3.037 Oct 18. Centers for Medicare and Medicard Services. Overview of the Stilled Hostings (Sally) by the Based Purchasing Ingrams, http://www.com.go/Obrasto-bud Clinical Services. Overview of the Stilled Hostings (Sally) by the Based Purchasing Ingrams, http://www.com.go/Obrasto-bud Clinical Services. Overview of the Stilled Hostings (Sally) by the Based Purchasing Ingrams. http://www.com.go/Obrasto-bud Clinical Services. Overview of the Stilled Hostings (Sally) by the Stilled Hostings	
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Role of the Pharmacist	
Skilled Nursing Facility	
Community Ambulatory Care	
Ambulatory Care Other?	

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The Medicare SNF 30-day all-cause readmission measure will be used to rank facilities based on the readmission rate from what	
used to rank facilities based on the readmission rate from what patient encounters?	
Discharge from hospital	
Discharge from SNFLast physician visit in hospital	
Last physician visit in SNF	
	-
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aship Certification Resources	
The University of Kansas Health System	
 Historically separate hospital and clinic-based entities Systematic TOC approach 	-
 Throughout hospital 	
 Admission to home Consolidation to one system 	
 Identified Preferred Provider Networks Skilled Nursing Facilities 	
- Home Health Agencies	
Transitions of care gap from SNF to home	
ashp. Carification Resources	
SNF to Home Initiative	
Identify target pilot population	
 Evaluate and improve current practice Structure: Optimize current systems and checklists 	
Process: intentional hand-offs	
 Outcomes: patient-centered & system-based Replicate 	
периоде	

Key Takeaways • Key Takeaway #1 - Recognize the opportunities to improve transitions of care in your health system • Key Takeaway #2 - Systematically approach improvement with a focus on process, structure, and outcome evaluation • Key Takeaway #3 - The pharmacist is a key contributor to safe care transitions Questions?

References Advansil AA, Doucette WR. Comprehensive: Iterature review of factors influencing medication safety in nursing homes: Using a systems model. J Am Med Dir Assoc 2017;18:470-88. A merican college of Clinical Pharmacy, Psyment Methods in Outpatient Team-Based Clinical Pharmacy Practice, Part 1. April 2015. www.accp.com/palb1. 2017 Oct 18. Centers for Medicare and Medical Services. Inpatient rehabilitation therapy Services: Complying with Documentation Requirements. https://www.cma.gov/Outreach-and-discutaroi/Medicare-learning-Network-MM/MMWProducts/downloads/pingatient_leaha_firet_Sheet_Divided-part into the production of the Company of the Medicare and Medical Services. Vowel for Medicare and Medical Services. Vowel Medicare developed for Medicare Amount of the Company of the Medicare Amount of the Company of the Medicare and Medical Services. Vowel Medicare Coverage Sulfation from Company of the Company of the Medicare Amount of the Company of the Company

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 Delante T, Chester EA, Stubbings TW, et al. Clinical Outcomes of a Home-Based Medication Reconciliation Program After Discharge from a Skilled Nursing Facility. Pharmacotherapy 2008;28(4):444–52).
 Horney C, Capp R, Boxer R, et al. Factors associated with early readmission among patents discharged to post-acute care facilities. J Am Geriatr Soc 2017:65:1199-205.
 Lindquist LA, Miller RK, Saltsman WS, et al. SGIM-AMDA-AGS consensus best practice recommendations for transition patient's healthcare from skilled nursing facilities to the community. J Gen Intern Med. 2016;32;199-203.
 Mor V, Intrator O, Feng Z, et al. The revolving door of rehospitalization from skilled nursing facilities. Health Aff 2010;29:57-64.
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 National Transitions of Care Coalition. Transitions of Care Measures. May 2008. http://www.ntocc.org/Portals/0/PDF/Resources/TransitionsOfCare_Measures.pdf. 2017 Oct 18.
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 Reidt SL, Holtan HS, Larson TA, et al. Interprofessional collaboration to improve discharge from skilled nursing facility to home: preliminary data on postdischarge hospitalizations and emergency department visits. J Am Geriatr Soc 2016;64:1895-9.
 Sinvani LD, Beizer J, Akerman M, et al. Medication Reconciliation in Continuum of Care Transitions: A Moving Target. J Am Med Dir Assoc 2013:14;668-72.
 Toles M, Colon-Emeric C, Asafu-Adjei J, et al. Transitional care of older adults in skilled nursing facilitates: a systematic review. Geriatric Nursing 2016;37;296-301.

Recommended Resources and References

- National Transitions of Care Coalition. Improving transitions of care: the vision of the national transitions of care coalition (May 2008).
 http://www.ntocc.org/portals/0/PDF/Resources/PolicyPaper.pdf (accessed 2017 Aug 16).
- 2. American College of Clinical Pharmacy. Payment methods in outpatient team-based clinical pharmacy practice, part 1 (April 2015). www.accp.com/paib1 (accessed 2017 Aug 22).
- 3. Lindquist LA, Miller RK, Saltsman WS et al. SGIM-AMDA-AGS consensus best practice recommendations for transitioning patient's healthcare from skilled nursing facilities to the community. *J Gen Intern Med.* 2016:32;199-203.
- Centers for Medicare & Medicaid Services. Transitional care management services (2016). https://www.cms.gov/Outreach-and-Education/Medicare-Learning-Network-MLN/MLNProducts/downloads/Transitional-Care-Management-Services-Fact-Sheet-ICN908628.pdf (accessed 2017 Aug 30).



2017 ASHP Midyear Intensive Studies for Recertification

Please note: Continuing Pharmacy Education Credit can be claimed by following general Midyear CE processing instructions outlined in your onsite program book and online.

The information below is intended for pharmacists seeking recertification credit, in one of these areas:

- **Ambulatory Care Pharmacy, BCACP**
- Critical Care Pharmacy, BCCCP
- Geriatric Pharmacy, BCGP
- **Oncology Pharmacy, BCOP**
- **Pediatric Pharmacy, BCPPS**
- Pharmacotherapy, BCPS

Several ASHP Midyear Clinical Meeting sessions were developed as a part of ASHP's professional development program for recertification of board certified pharmacists. These activities are approved by the Board of Pharmacy Specialties (BPS). For pharmacists who maintain more than one certification, some of these sessions provide credit for more than one specialty. A range of 4 to 6 hours of credit may be earned, depending on the specialty.

How does this work?

- 1. You must purchase the desired recertification package (BCACP, BCCCP, BCGP, BCOP, BCPPS, BCPS) by **December 7th at 12PM ET.** This is in addition to Midyear registration.
- 2. Attend the sessions at the ASHP Midyear Clinical Meeting in Orlando.
- 3. Missed an Intensive Study at Midyear? The recertification package, including recorded sessions, will be available online for all of the sessions in your selected specialty.
- 4. The assessments will be available online February 7, 2018- August 8, 2018. You will receive an email with instructions on how to access your recorded sessions

selected specialty is already included in your subscription.

and recertification assessment. To earn recertification credit, complete and pass the recertification **assessment(s)** for the desired specialty/session(s).

5. Dual or triple certified? Passing a recertification assessment for a session with multiple certifications will provide you hours for each of your specialties. For example, by passing the assessment for the "Medication

Safety Fatigue" activity, you earn hours toward BCACP, BCCCP, BCGP, BCPPS, and BCPS. Sessions with multiple certifications are outlined in the Intensive Study table. You may purchase more than one specialty package.

Note: If you are currently enrolled in the 3-year recertification plan or the RRRP, the Intensive Study Package of your

Have you already purchased your recertification package?

In order to claim recertification credit, you must have purchased the recertification exam in addition to your Midyear registration.

You have the following options to purchase the package onsite:

Prior to 11:59 pm ET November 30th **Purchase online:**

- Log in to http://store.ashp.org
- Click on My Account
- Under My Meetings, find 52nd ASHP Midyear Clinical Meeting and Click on View Registration
- Click **Edit** next to Select Events
- Click Add next to desired Recertification Package and click Next
- Update badge info if applicable, and click Next
- Click Pay Now for This Registrant
- Fill in any payment info and click **Complete** Registration

December 1st through December 7th, before 12 pm ET

- Go to the Customer Relations Desk. Or
- Purchase online at http://elearning.ashp.org/buyintensives

ASHP Midyear Intensive Studies for Recertification Ambulatory Care Pharmacy (BCACP) Package, 6 hours

Medication Safety Fatigue? Pragmatic Actions for the Clinical Practitioner

ACPE Activity #0204-9999-17-322-L05-P, 1.50 Contact Hours, Application-based

Sunday, December 3, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), Board Certified Critical Care Pharmacist (BCCCP), Board Certified Geriatric Pharmacist (BCGP), Board Certified Pediatric Pharmacy Specialist (BCPS), recertification credit.*

Medical Cannabis: Current Considerations and Implications for Pharmacists

ACPE Activity #0204-9999-17-220-L01-P, 1.00 Contact Hours, Application-based

Monday, December 4, 2017, 4:15 PM - 5:15 PM, OCCC, W311B, Level 3

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP) recertification credit.*

Chronic Obstructive Pulmonary Disease: New Approaches to an Old Problem

ACPE Activity #0204-9999-17-234-L01-P, 2.00 Contact Hours, Application-based

Tuesday, December 5, 2017, 8:00 AM - 10:00 AM, OCCC, Valencia W415D, Level 4

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP) and Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.*

Nonmedical Use of Prescription Opioids by Adolescents and Young Adults: Strategies for Pharmacists

ACPE Activity #0204-9999-17-252-L01-P, 1.50 Contact Hours, Application-based

Tuesday, December 5, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP) and Board Certified Pediatric Pharmacy Specialist (BCPPS) recertification credit.*

ASHP Midyear Intensive Studies for Recertification Critical Care Pharmacy (BCCCP) Package, 4 hours

Medication Safety Fatigue? Pragmatic Actions for the Clinical Practitioner

ACPE Activity #0204-9999-17-322-L05-P, 1.50 Contact Hours, Application-based

Sunday, December 3, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), Board Certified Critical Care Pharmacist (BCCCP), Board Certified Geriatric Pharmacist (BCGP), Board Certified Pediatric Pharmacy Specialist (BCPS), and Board Certified Pharmacotherapy Specialist (BCPS), recertification credit.*

Update on Anticoagulation Reversal

ACPE Activity #0204-0000-17-214-L01-P, 1.50 Contact Hours, Application-based

Monday, December 4, 2017, 2:00 PM - 3:30 PM, OCCC, Valencia W415D, Level 4

This activity is approved for Board Certified Critical Care Pharmacist (BCCCP) and Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.

Overcoming Patient Safety Challenges Associated with Drug Shortages

ACPE Activity #0204-0000-17-245-L05-P, 1.00 Contact Hours, Application-based

Tuesday, December 5, 2017, 10:00 AM - 11:00 AM, OCCC, Valencia W415D, Level 4

This activity is approved for Board Certified Critical Care Pharmacist (BCCCP) and Board Certified Pharmacotherapy Specialist (BCPS) recertification credit.

ASHP Midyear Intensive Studies for Recertification Geriatric Pharmacy (CGP) Package, 5 hours

Medication Safety Fatigue? Pragmatic Actions for the Clinical Practitioner

ACPE Activity #0204-9999-17-322-L05-P, 1.50 Contact Hours, Application-based

Sunday, December 3, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), Board Certified Critical Care Pharmacist (BCCCP), Board Certified Geriatric Pharmacist (BCGP), Board Certified Pharmacotherapy Specialist (BCPS), recertification credit.*

The Hidden Opioid Abuse Problem: Is it Geriatric Opioid Abuse or Is Grandma Really a Junkie?

ACPE Activity #0204-0000-17-236-L01-P, 2.00 Contact Hours, Application-based

Tuesday, December 5, 2017, 8:00 AM – 10:00 AM, OCCC, W209A, Level 2

This activity is approved for Board Certified Geriatric Pharmacist (BCGP) recertification credit.

Reducing Geriatric Patient Risk at the Transition of Care from Hospital to Home

ACPE Activity #0204-0000-17-254-L04-P, 1.50 Contact Hours, Application-based

Tuesday, December 5, 2017, 2:00 PM - 3:30 PM, OCCC, W414B, Level 4

This activity is approved for Board Certified Geriatric Pharmacist (BCGP) recertification credit.

*Developed in partnership between ASHP and the American Pharmacists Association (APhA).

ASHP/ACCP BCOP Clinical Sessions Oncology Pharmacy (BCOP) Package, 4 hours

BCOP Clinical Sessions: An Oncology Pharmacist's Guide to Bayesian Statistics

ACPE Activity #0217-9999-17-161-L04-P, 2.00 Contact Hours, Application-based

Tuesday, December 5, 2017, 8:00 AM - 10:00 AM, OCCC, W312A, Level 3

This activity is approved for Board Certified Oncology Pharmacist (BCOP) recertification credit.**

BCOP Clinical Sessions: New Oncology Drugs and Updates on the Management of Nausea and Vomiting

ACPE Activity #0217-9999-17-162-L01-P, 2.00 Contact Hours, Application-based

Tuesday, December 5, 2017, 2:00 PM - 4:00 PM, OCCC, W312A, Level 3

This activity is approved for Board Certified Oncology Pharmacist (BCOP) recertification credit.**

*Developed in partnership between ASHP and the American Pharmacists Association (APhA).

**Developed in partnership between ASHP and American College of Clinical Pharmacy.

ASHP Midyear Intensive Studies for Recertification Pediatric Pharmacy (BCPPS) Package, 4 hours

Medication Safety Fatigue? Pragmatic Actions for the Clinical Practitioner

ACPE Activity #0204-9999-17-322-L05-P, 1.50 Contact Hours, Application-based

Sunday, December 3, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), Board Certified Critical Care Pharmacist (BCCCP), Board Certified Geriatric Pharmacist (BCGP), Board Certified Pediatric Pharmacy Specialist (BCPPS), and Board Certified Pharmacotherapy Specialist (BCPS), recertification credit.*

Nonmedical Use of Prescription Opioids by Adolescents and Young Adults: Strategies for Pharmacists

ACPE Activity #0204-9999-17-252-L01-P, 1.50 Contact Hours, Application-based

Tuesday, December 5, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP) and Board Certified Pediatric Pharmacy Specialist (BCPPS) recertification credit.*

Big Challenges for Small Patients: Update on the Management of Methicillin-resistant Staphylococcus Aureus (MRSA) in Pediatrics

ACPE Activity #0204-0000-17-263-L01-P, 1.00 Contact Hours, Application-based

Tuesday, December 5, 2017, 4:00 PM - 5:00 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Pediatric Pharmacist (BCPPS) recertification credit.

ASHP Midyear Intensive Studies for Recertification Pharmacotherapy (BCPS) Package, 6 hours

Medication Safety Fatigue? Pragmatic Actions for the Clinical Practitioner

ACPE Activity #0204-9999-17-322-L05-P, 1.50 Contact Hours, Application-based

Sunday, December 3, 2017, 2:00 PM - 3:30 PM, OCCC, W209A, Level 2

This activity is approved for Board Certified Ambulatory Care Pharmacist (BCACP), Board Certified Critical Care Pharmacist (BCCCP), Board Certified Geriatric Pharmacist (BCGP), Board Certified Pharmacotherapy Specialist (BCPS), recertification credit.*

Update on Anticoagulation Reversal

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*Developed in partnership between ASHP and the American Pharmacists Association (APhA).

About Us

ASHP seeks to support and advance the practice of board certified pharmacists. Our review and recertification products are application based and designed for the high-level practitioner who is looking for a practical approach to preparation and recertification that will be immediately applicable to their practice. These are so much more than just another therapeutics lecture.

Learn more about the "ASHP Difference" and how we offer a more practical approach to certification review and recertification. http://www.ashpcertifications.org