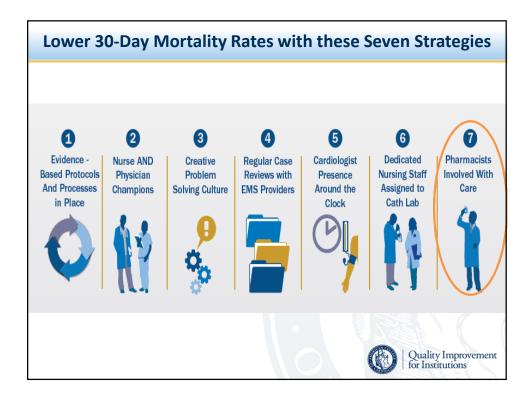
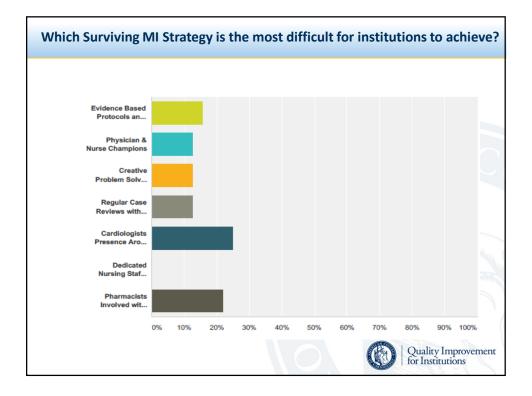


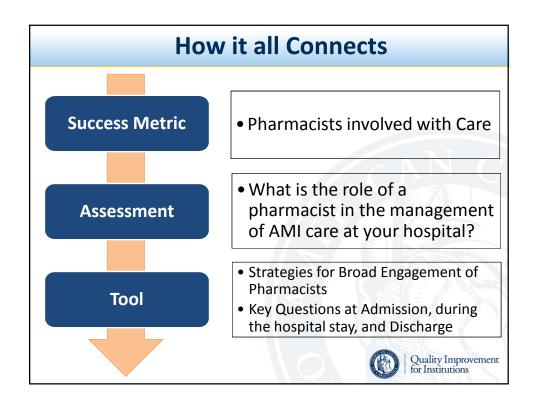
How this webinar is organized		
Time	Торіс	
12:00pm	Welcome and Introductions	
12:10pm -12:50pm	Building the Case for Pharmacy	
	UK HealthCare Lexington, Kentucky	
	Ephraim McDowell Regional Medical Center Danville, Kentucky	
12:50pm	Q&A	
12:57pm	Wrap-up and Next Steps	
	Quality Improved for Institutions	

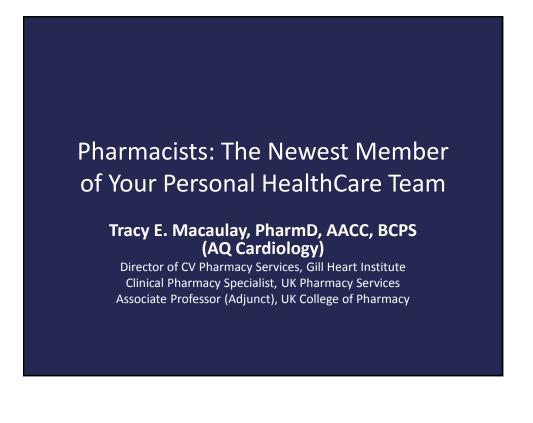




Strategies Associated with Lower MI Mortality				
6 Points RSMR Decrease implementing)				
).92 (by 43%)				
0.66 (by 40%)				
).61 (by 15%)				
).41 (by 82%)				
).41 (by 35%)				
).54 (by 14%)				

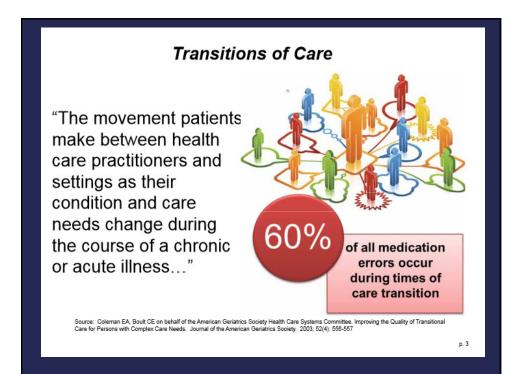






Objectives

- Provide overview of UK HealthCare
- Discuss the rationale and goals for implementation of KATS-PLEDGE program
- Describe the role of pharmacy in KATS-PLEDGE
 - Medication Reconciliation
 - Inpatient clinical support
 - Discharge prescriptions services and education
 - Follow-up clinic with medication therapy management
- List quality and financial metrics that could be used to justify pharmacy services



UK HealthCare Overview



UK HealthCare Overview • Located in Lexington, KY

ayette

Bluegrass

-65 Comido

• 600+ bed academic medical center

Western Kentucky

- 9000+ Health Professionals
- Level I Trauma Center
 - Level IV NICU
- 9 Health Colleges
- Gill Heart Institute
 - Clinical Trials
 - Outreach

UK HealthCare Pharmacy Services

- ~450 employees
 - 150 pharmacists (including 25 pharmacy residents)
 - 70 Student Interns
- Established Inpatient, Clinical, and Community Services
- 5 Community (Retail) Pharmacy locations
 - Provide Discharge Prescriptions
 - Mail-Order
 - Specialty Pharmacy Services
- Cardiovascular Pharmacy Resources
 - 6 FTEs + 2 newly approved FTEs
 - 2 PGY2 Cardiology Pharmacy Residents

UK HealthCare Pharmacy TOC Services

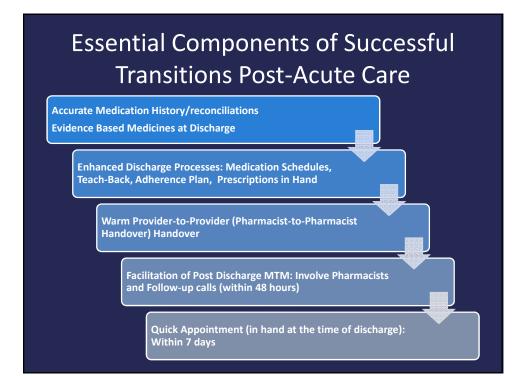
- Pharmacy driven admission medication reconciliation since 2011
 - Increased involvement of extenders since 2014 (i.e. TOC techs, intern program expansion, rotational professional year students)
- House wide, pharmacists provided limited medication education (warfarin, transplant, KATS PLEDGE-AMI)
- Meds-to-Beds began facilitating discharge Rx in August 2013
- BOOST Pilot began in ~November 2014 and includes 1.4 pharmacists and 1 TOC technician

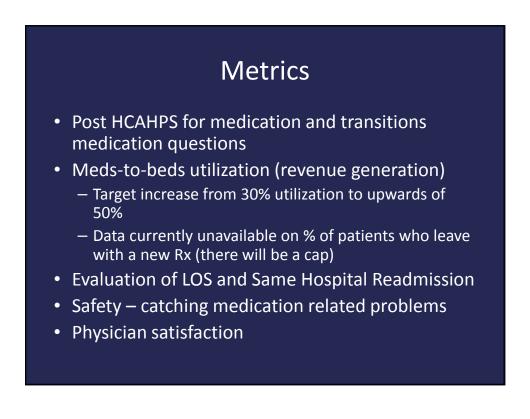
AMI at UK HealthCare

- ~600 PCIs performed annually
 60% for ACS (~360)
- One of the highest case mix index for UHC
- Above average readmission amongst UHC hospitals
- · Above CMS targets for readmission in AMI
- Requires multidisciplinary effort and innovation solutions
- Pharmacy at UKHealthCare has unique opportunity to impact

<u>KY A</u>dherence to pharmaco<u>T</u>herapy <u>Service</u>: A <u>Program</u> to <u>L</u>ead, <u>E</u>ducate, and <u>D</u>eliver <u>G</u>oal-directed care <u>E</u>ffectively = KATS PLEDGE

- Patient and care-giver education, facilitated with iPad videos in the cath recovery area
- 30-days of FREE core medicines provided at time of discharge (aspirin, P2Y12 inhibitor, atorvastatin, lisinopril, beta-blocker, and SL NTG.
- Appointments for follow-up care in patient's hand at time of discharge
- Discharge consultation and medication education by a Clinical Pharmacist (ACS Patient's only)
- Access to healthcare provider (RN) by separate phone number
- 2-day follow-up call
- Follow-up appointment with Clinical Pharmacist within 7 days following discharge (ACS Patient's only)
- 30-day follow-up call





ACS Med Rec Process

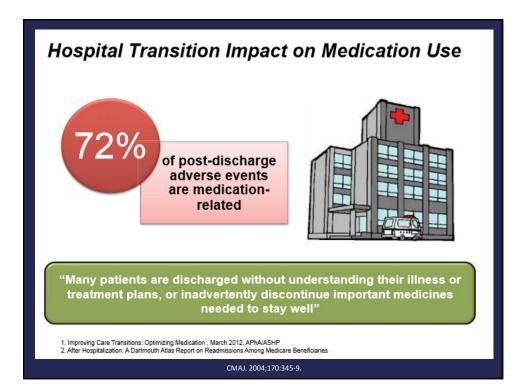
- Pharmacy completes and documents admission med history for ALL patients
 - 25% TOC Tech
 - 40% Pharmacy Student
 - 35% Pharmacist
- Pharmacists complete admission medication reconciliation
- ACS patients have pharmacist completed/reviewed discharge medication reconciliation
- Bedside RN prints education material & new medication list and review with patients



- Pharmacist provided medication reconciliation and education at discharge can decrease the rate of:
 - Preventable adverse drug events
 - Medication-related readmissions
 - Emergency department use
- IPITCH:
 - Recent study demonstrated that pharmacist involvement in hospital discharge can decrease composite inpatient readmissions and ED visits
- Outcomes vary by study and can be inconsistent

Arch Intern Med. 2006;166:565-71. IPITCH. J Hospital Medicine 2015. PILL-CVD Ann Intern Med. 2012;157:1-10.

Discharge Paperwork						
Medications You Should	Take					
How do I take my medicines This is a full list of all your medici on taking. Please note: C	nes. It has					
Medication Name		۲	\mathbf{O}		Additional Instructions	
	Morning	Noon	Evening	BedTime		
amitriptyline 50 mg oral tablet By mouth				3 tab(s)	3 tab(s) orally once a day (at bedtime)	
(Also known as: Elavil, Endep, Vanatrip)						
azaTHIOprine 50 mg oral tablet By mouth				4 tab(s)	4 tab(s) orally once a day (at bedtime) (Held currently due to surgery status per Patient)	
(Also known as: Imuran)						
gabapentin 300 mg oral capsule By mouth	1 cap(s)		1 cap(s)		1 cap(s) orally 2 times a day	
(Also known as: Neurontin)						
omeprazole 20 mg oral delayed release capsule By mouth	1 cap(s)				1 cap(s) orally once a day	
(Also known as: PriLOSEC, PriLOSEC OTC)						
Vitamin D3 2000 intl units oral tablet By mouth	1 tab(s)				1 tab(s) orally once a day	
(Also known as: Vitamin D3, Thera-D 2000, Thera-D Spo	ort)					
acetaminophen-oxyCODONE 325 mg-5 mg oral tablet By mouth		ally every 4	hours, as	needed for p	ain	
(Also known as: Roxicet, Percocet 5/325, Endocet, Endo						
cyanocobalamin 1000 mcg/mL injectable solution injection	1 milliliter(s	s) injectabl	e once a m	onth		
(Also known as: Cyanoject, Cyomin, Cobal-1000, Crysta	IB-12)					



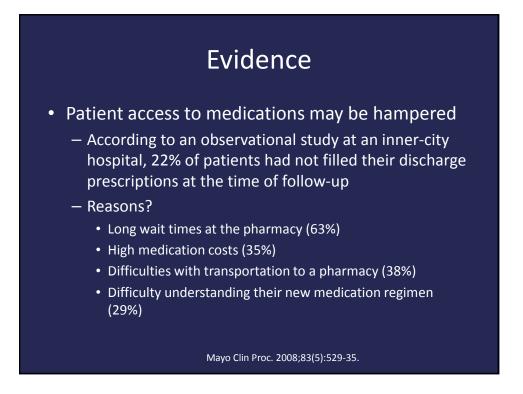
HCHAPS 16, 17, and 25!

16. Before giving you any new medicine, how often did hospital staff tell you what the medicine was for?

17. Before giving you any new medicine, how often did hospital staff describe possible side effects in a way you could understand?

25. When I left the hospital, I clearly understood the purpose for taking each of my medications?

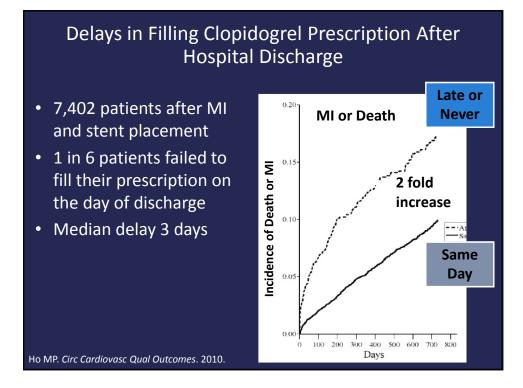
http://www.hcahpsonline.org/files/HCAHPS%20V9.0%20Appendix%20A%20-%20Mail%20Survey%20Materials%20%28English%29%20March%202014.pdf



Prescriptions Abandoned in CVS Pharmacies

- Assessed > 5,000,000 patients and >10,000,000 prescriptions
 - 3.3% were abandoned
 - 1.0% were antithrombotic medications
 - New medication users had a 3x greater probability of abandonment
 - Prescription Cost >\$50 there was a 5x greater probability of abandonment





Discharge Prescription Services

- Mobile Pharmacy Services bring discharge medications to the patient's bedside
- Allows team to work through financial barriers
 - Involved Social Services
 - Prior Authorization obtained prior to discharge
 - Patient Assistant Programs involved
- Increased opportunity for pharmacist counseling, identification of medication errors, reminder of HCAHPS, etc.
- Ensures medications are in hand before departure

http://www.ashp.org/menu/News/PharmacyNews/NewsArticle.aspx?id=3856. Hosp Case Manag. 2014 Feb;22(2):17-8.

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Standardized Rx Fax Form

Select below (unless contraindication): Aspirin 81 mg po daily #30, 11 refills

Select one below:

- $\hfill \Box$ Ticagrelor 90 mg po twice daily #60, 11 refills
- □ Clopidogrel 75 mg po daily #30, 11 refills

Select <u>one</u> below (and appropriate dose):

- □ Atorvastatin 80 mg po daily #30, 11 refills
- Atorvastatin 20 mg po daily #30, 11 refills (lower dose option for patients > 75 yo)
- □ Pravastatin 80 mg po daily at bedtime #30, 11 refills

Select <u>one</u> below (and appropriate dose):

- Metoprolol tartrate (Lopressor):
 - □ 12.5 mg po twice daily #60, 11 refills
 - □ 25 mg po twice daily #60, 11 refills
 - □ 50 mg po twice daily #60, 11 refills
 - □ 100 mg po twice daily #60, 11 refills

Carvedilol:

- □ 3.125 mg po twice daily #60, 11 refills
- □ 6.25 mg po twice daily #60, 11 refills
- □ 12.5 mg po twice daily #60, 11 refills
- □ 25 mg po twice daily #60, 11 refills

□ Lisinopril: □ 2.5 mg po daily #30, 11 refills

□ 5 mg po daily #30, 11 refills

Select if indicated - DMII, LVSD (EF<40%), HTN or CRI (and

- □ 10 mg po daily #30, 11 refills
- □ 20 mg po daily #30, 11 refills

□ 40 mg po daily #30, 11 refills

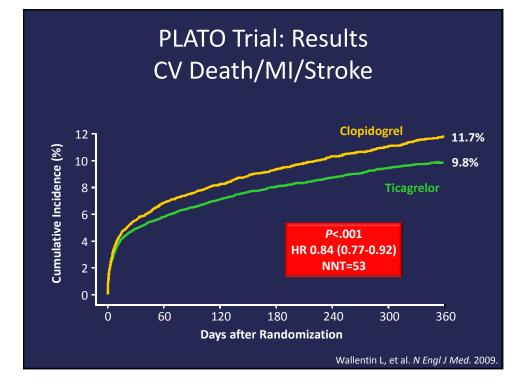
Select if needed:

appropriate dose):

□ SL Nitroglycerin 0.4 mg, place one tablet under tongue as needed for chest pain, #25, 3 refills

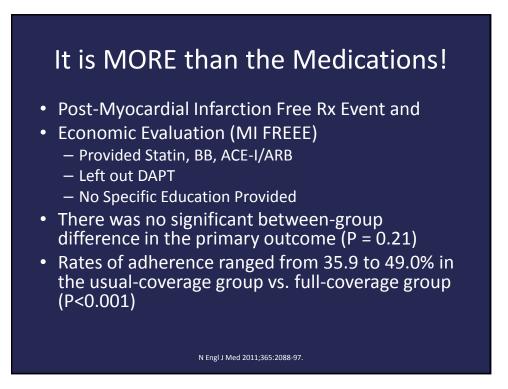
OTHER NON-CONTROLLED SUBSTANCES

(Prescribed for discharge delivery as requested by patient – for patient self-pay or INS co-payment):



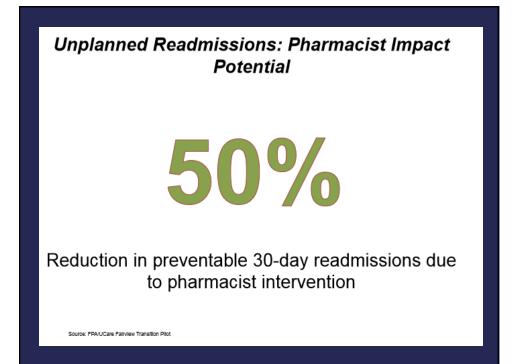
PLATO: Secondary Efficacy Endpoints

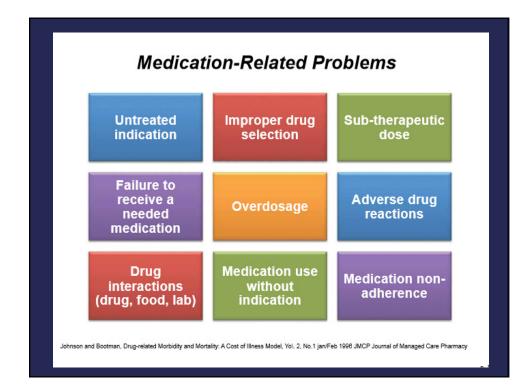
End Point	Ticagrelor Group	Clopidogrel Group	Hazard Ratio for Ticagrelor Group (95% Cl)	P Value'j
Primary end point: death from vascular causes, MI, or stroke — no./total no. (%)	864/9333 (9.8)	1014/9291 (11.7)	0.84 (0.77-0.92)	<0.001‡
Secondary end points — no./total no. (%)				
Death from any cause, MI, or stroke	901/9333 (10.2)	1065/9291 (12.3)	0.84 (0.77-0.92)	<0.001‡
Death from vascular causes, MI, stroke, severe recurrent ischemia, recurrent ischemia, TIA, or other arterial thrombotic event	1290/9333 (14.6)	1456/9291 (16.7)	0.88 (0.81-0.95)	<0.001‡
MI	504/9333 (5.8)	593/9291 (6.9)	0.84 (0.75-0.95)	0.005‡
Death from vascular causes	353/9333 (4.0)	442/9291 (5.1)	0.79 (0.69-0.91)	0.001‡
Stroke	125/9333 (1.5)	106/9291 (1.3)	1.17 (0.91-1.52)	0.22
Ischemic	96/9333 (1.1)	91/9291 (1.1)		0.74
Hemorrhagic	23/9333 (0.2)	13/9291 (0.1)		0.10
Unknown	10/9333 (0.1)	2/9291 (0.02)		0.04
Other events - no /total.no. (%)				
Death from any cause	399/9333 (4.5)	506/9291 (5.9)	0.78 (0.69-0.89)	< 0.001
Death from causes other than vascular causes	46/9333 (0.5)	64/9291 (0.8)	0.71 (0.49–1.04)	0.08
Severe recurrent ischemia	302/9333 (3.5)	345/9291 (4.0)	0.87 (0.74-1.01)	0.08
Recurrent ischemia	500/9333 (5.8)	536/9291 (6.2)	0.93 (0.82-1.05)	0.22
TIA	18/9333 (0.2)	23/9291 (0.3)	0.78 (0.42-1.44)	0.42
Other arterial thrombotic event	19/9333 (0.2)	31/9291 (0.4)	0.61 (0.34-1.08)	0.09
Death from vascular causes, MI, stroke — no./total no. (%)				
Invasive treatment planned§	569/6732 (8.9)	668/6676 (10.6)	0.84 (0.75-0.94)	0.003‡
Event rate, days 1–30	443/9333 (4.8)	502/9291 (5.4)	0.88 (0.77-1.00)	0.045
Event rate, days 31–360¶	413/8763 (5.3)	510/8688 (6.6)	0.80 (0.70-0.91)	< 0.001
The percentages are Kaplan-Meier estimates of the rate of the point: Death from vascular causes included fatal bleeding. Only cular causes. MI denotes myocardial infarction, and TIA transie P values were calculated by means of Cox regression analysis. Statistical significance was confirmed in the hierarchical testing A plan for invasive or nonivasive (medical) management was Patients with any primary event during the first 30 days were est	r traumatic fatal blee ent ischemic attack. g sequence applied to declared before rand	ding was excluded fro	m the category of de	ath from vas-

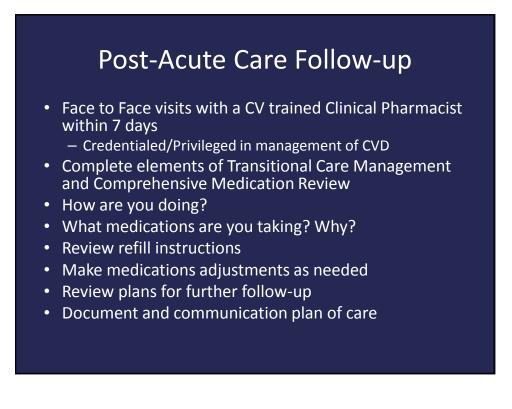


Communication

- KATS PLEDGE Pharmacist Discharge Consult note
 - Explain rationale for discharge regimen
 - Duration of triple therapy, DAPT, why no statin, etc.
 - Individual patient barriers to adherence
 - Co-payment information for refills of Rx
 - Where team is in process of PA
- Verbal communication when ever needed







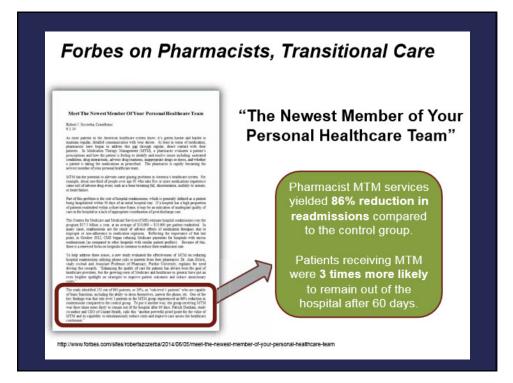
KATS-PLEDGE Interim Analysis

- Went live with all components September 1st
- In 6 months
 - ~300 PCIs got free discharge medications
 ~200 classified as ACS
 - 60% ticagrelor and 40% clopidogrel
 - Follow-up TCM PharmD appointments made for ~160
 ~120 completed the face-to-face visit
 - Average follow-up time at 8 days
 - At 30 days: ~28 were readmitted, ~14 patients had ED visit
 - None of these completed the face-to-face visit
 - Admitted before, not scheduled, or no showed
 - 92% of patients had a medication change during follow-up appointment

Opportunities for Revenue Generation

- Discharge Prescription Services
 - Filling other medications
 - Refill business (repeat customers)
- Billing for clinical services
 - Inpatient MTM
 - Outpatient MTM/CMR
 - TCM Provider Billing





ASHP PPMI and Professional Continuity

- B20: Pharmacists should facilitate medicationrelated continuity of care.
- B23I: Pharmacists should be involved in establishment of process to ensure medication-related continuity of care.
- B23m: Pharmacists should be involved in the provision of discharge education to patients.

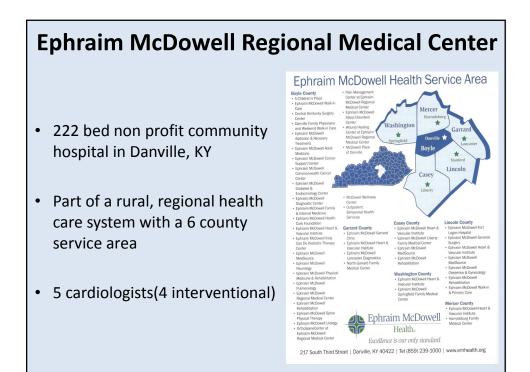
Summary

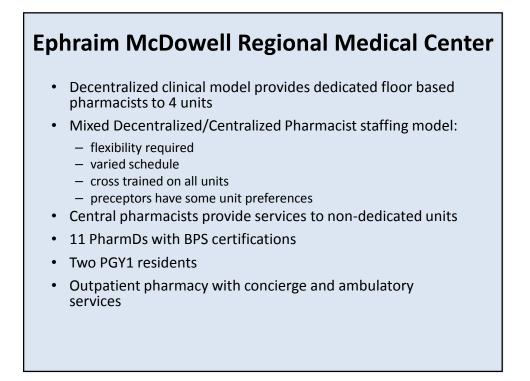
- Pharmacists can impact patient care at discharge through medication reconciliation, education, access and follow-up
- Quality and financial metrics should be utilized to justify and offer continued support for these services
- Many hospitals have had success implementing a sustainable model of these services, UK Pharmacy Service has made significant strides and is positioned to make the next leap... HF



Ephraim McDowell Regional Medical Center - Danville KY

Brett Vickey PharmD, BCPS Clinical Pharmacist





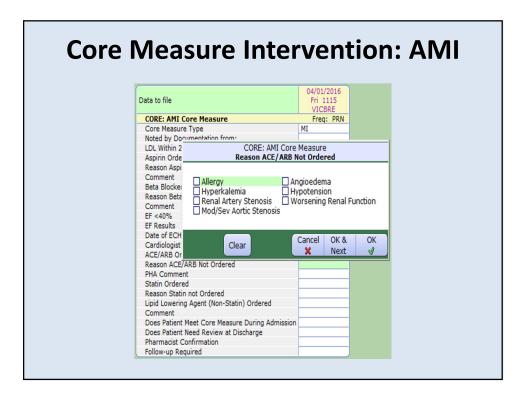
Core Measure Intervention: AMI

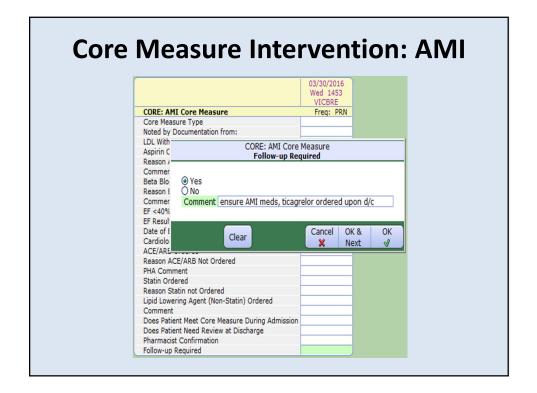
- EMRMC nursing and pharmacy collaboration
- Helps achieve core measure compliance:
 - Medications
 - Documentation
 - Counseling
- Flags for prescribers to be notified

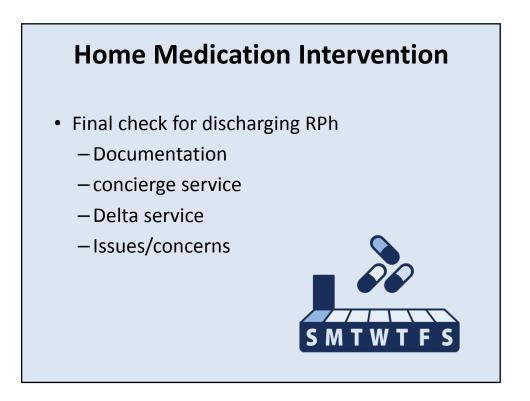


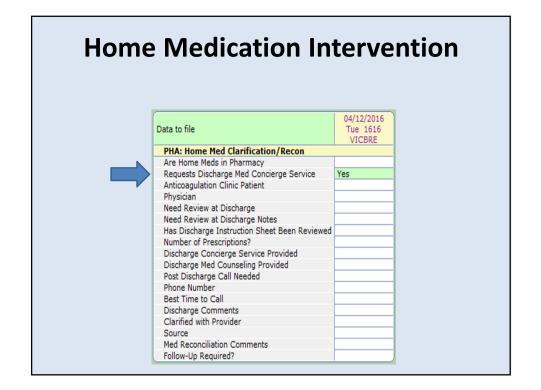


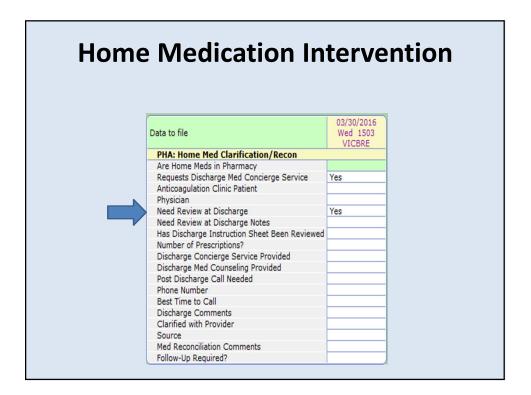
	03/30/2016
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	VICBRE
CORE: AMI Core Mea	sure Freq: PRN
Core Measure Type	
Noted by Documentation	
LDL Within 24 Hours of	f Admission
Aspirin Ordered	
Reason Aspirin at Disc	harge Not Ordered
Comment	
Beta Blocker Ordered	
Reason Beta Blocker N	Not Ordered
Comment	
EF <40%	
EF Results	
Date of ECHO	
Cardiologist	
ACE/ARB Ordered	
Reason ACE/ARB Not (Ordered
PHA Comment	
Statin Ordered	
Reason Statin not Orde	ered
Lipid Lowering Agent (I	
Comment	
	e Measure During Admission
Does Patient Need Rev	
Pharmacist Confirmation	
Follow-up Required	

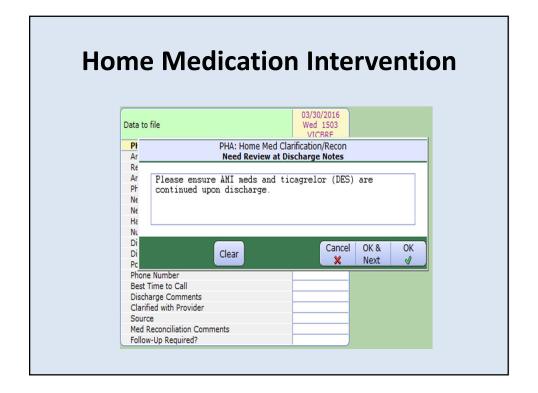


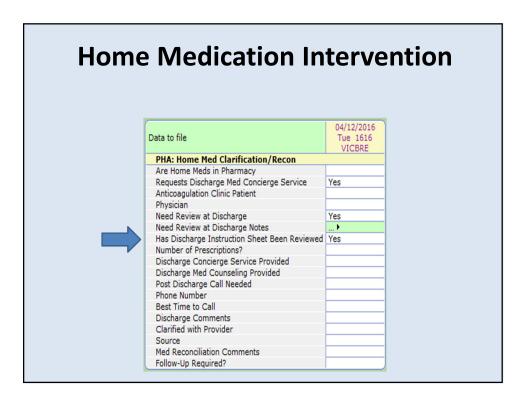


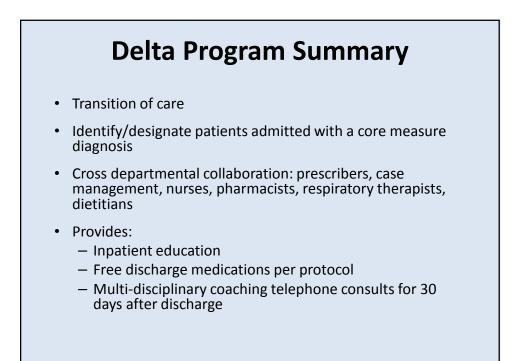


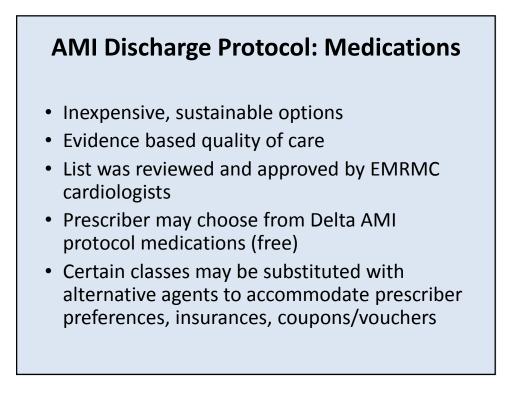


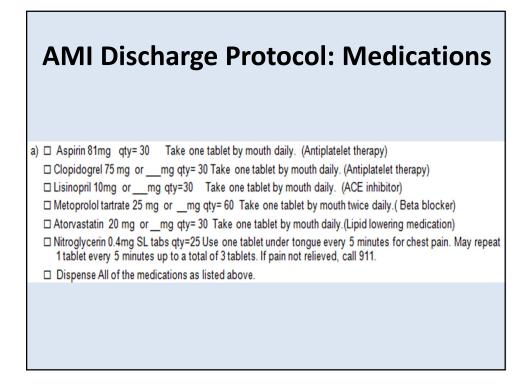


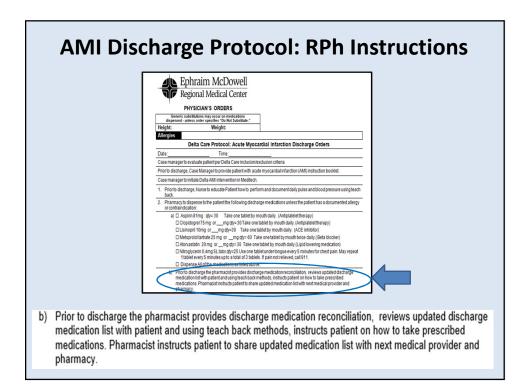












	Heart Attack Monito	oring and Action Plan
	GREEN ZONE	GREEN ZONE ACTION
Health Literacy Tool	 My blood pressure is in normal range. I have taken all my medications as ordered. I have plenty of medications as ordered. I have plenty of medications as ordered. I am not shoring chest pain. I am not shoring chest pain. I am being active at least 10-15 minutes daily or have started cardiac rehabilitation. I am sticking to my diet. I am not smoking or am reducing how much I smoke. I am not sad, anxious or depressed. YELLOW ZONE I have blood pressure outside normal range. I have increased shortness of breath. I have only three days of medicine left. I cannot get to the pharmacy to pick up my medications or I can't pay for them. I have no energy, am sleeping more or having trouble sleeping, feel sad or anxious. I am not sticking to my diet/have gained weight. I am not sitcking to my diet/have gained weight. I am not sitcking to my diet/have gained weight. I am not sitcking to my diet/have gained weight. I am not sitcking to my diet/have gained weight. 	Symptoms are under control - GREAT JOB: Continue to: Take your medications as ordered by your doctor. Take your blood pressure daily. Stick to your diet restrictions. Be active/participate in cardiac rehab program: make sure to warm up before and cool down after exercise. Monitor for chest pain or shortness of breath. Keep trying to quit or cut back smoking. Seek support group or professional help in dealing with stress, anxiety or depression. YELLOW ZONE ACTION Your efinical condition might be changing and your ender to take action? Call for appointment with your doctor or cardiologist and report your symptoms/get answers. Call your family, caregiver or health coach to get help. Continue to: Use meds as ordered. Monitor daily blood pressure and weight. Monitor for hanges in chest pain or shortness of breath/reduce or quit smoking.
	sex. RED ZONE	Keep track and record your sleep habits. Avoid taking erectile dysfunction meds if using nitrates like nitroglycerin or isosorbide for chest pain. RED ZONE ACTION
	I feel like I cannot breathe while at rest or wake up gasping for air.I have chest pain or pressure or my heart is racing.I feel hopeless, depressed or suicidal.	You need to be seen by a physician right away! Do not drive yourself.
	217 South Third Street Danville, KY 4042	22 (859) 239-1000 www.emhealth.org

Delta Return on Investment

With value based purchasing, the potential loss of revenue for readmissions was estimated to be 1% of total Medicare reimbursement for all patients served during 2013 and will increase by 1% each year up to 3% in 2015.

- 1% equated to an est. \$300,000 loss if we did nothing
- Potential projected expense for all HF and Delta patients \$47,528
- Actual expense for Delta enrolled HF and Delta patients
 \$8,944

42 HF Delta enrolled x \$104= \$4,368 <u>44 COPD Delta enrolled x \$104= \$4,576</u> ACTUAL TOTAL for 86 Delta enrolled patients = \$8,944

YEAR 1 NET REVENUE SALVAGED by DELTA CARE \$291,056

Delta Return on Investment

205 HF pts/yr x \$93.75 = \$19,219 <u>252 COPD/yr x \$99 = \$24,948</u> TOTAL \$44,167 expense per year for ALL HF & COPD pts*

*not all patients will be part of Delta clinic due to inclusion/exclusion criteria so this is max expenditure

NET REVENUE SALVAGED by DELTA CLINIC \$255,833

Delta Care Results Comparison of Readmission Rates

DRG	2012% readmission	2013% readmission	2012 O/E	2013 O/E	Change %
COPD 190	33	24.18	1.73	1.4	-19%
COPD 191	25	24.18	1.56	1.4	-10%
COPD 192	0	0.6	0.0	0.6	Increase
HF 291	50	23.23	2.44	1.08	-56%
HF 292	25	19.32	1.19	0.98	-18%
HF 293	50	17.28	2.73	1.05	-62%

Delta Care Results				
Data	HF patients	COPD patients	Combined	
Enrolled in Delta	42	44	86	
Complete 2 or more calls with coach	18	24	40	
Avg # calls completed	3.5	3.1	3.3	
PCP visit w/in 7 days	83% (15/18)	41% (9/22)	60% (24/40)	
Adhere to meds 6-7 days /week	78% (14/18)	88% (21/24)	83%	
Daily self monitoring	Weights 53% (208/396)	Peak flow 41% (55/133)	50% (263/529)	

Delta Care Results				
Data	HF patients	COPD patients	Combined	
Avg labor cost per Delta patient/month	\$93.31	\$60.39	\$76.85	
Cost of Delta discharge protocol meds/support kit	\$10.75	\$43.54		
Avg Total expense per Delta patient per month	\$104.06	\$103.93	\$104.00	
# patients readmitted w/in 30 days	11% (2/18)	17% (4/24)	14%	
# readmissions within 12 months	32% (9/28)	63% (15/24)		

	1
Objective	Results %
Patients are seen by primary care provider within 5-7 days of hospital discharge.	60%
Patients are able to obtain and comply with prescribed medications post discharge	83%
Patients are able to meet clinical goal for self monitoring their disease states (daily weights for HF, peak flow for COPD)	50%
Patients are able to identify and implement at least one recommended dietary change goal	77%
Patients are able to recognize and seek appropriate level of care when their condition worsens to avoid hospital re- admission within 30 days of discharge	85%

Delta Care- Patient Survey Results

38% rate or return

Scale of 1-5 with 1 being least helpful and 5 being most helpful

Data	Survey response
Do you think Delta program helped you understand your disease?	4.6 Avg
Do you think Delta program helped you understand your medications?	4.8 Avg
Do you think Delta program helped you recognize symptoms of your condition?	4.8 Avg
Do you think Delta program helped you understand your diet and exercise?	4.5 Avg



