Pharmacist Collaboration to Maximize Your Patient-Centered Medical Home

Stuart Beatty, PharmD, BCACP, CDE Associate Professor of Clinical Pharmacy The Ohio State University College of Pharmacy

Learning Objectives

- Describe how pharmacists can provide patient-centered, collaborative care in a primary care setting
- Discuss a transitional care coordination workflow in a patient centered medical home
- Demonstrate effective population management initiatives

Pharmacist Education

- Doctor of Pharmacy Degree
 - 6-8 years education
 - 3 year emphasis:
 - Medicinal chemistry
 - Pharmacology
 - Pharmacokinetics
 - Therapeutics
 - 1 year experiential
- Pharmacy Residency (elective)
 - 1 or 2 years clinical experience

OSU General Internal Medicine

- Martha Morehouse GIM Clinic
- CarePoint East GIM Clinic
- Stoneridge GIM Clinic
- Grandview GIM Clinic
- Hilliard GIM Clinic
- Lewis Center Primary Care



 National Committee for Quality Assurance (NCQA) tier 3 patient-centered medical homes (PCMH)

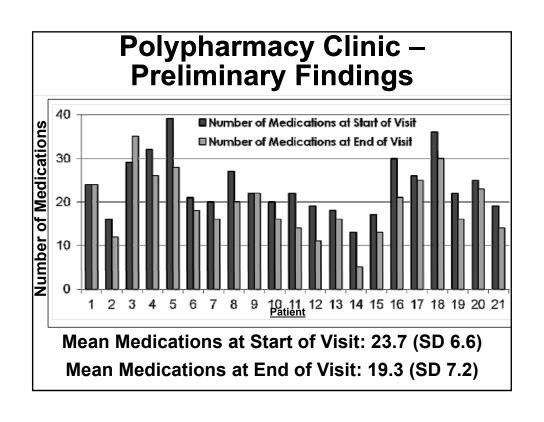
Martha Morehouse GIM Clinic

- >75 Internal Medicine residents; 12 attending physicians
- >20,000 patients
- 1 pharmacist shared faculty; 2 pharmacy residents
- 5 care coordinators (RN)
- 1 social worker
- 1 medication assistance programs coordinator
- 12 medical assistants

Polypharmacy Service

Stuart Beatty, PharmD, BCACP, CDE Associate Professor of Clinical Pharmacy The Ohio State University College of Pharmacy

Polypharmacy Clinic Workflow Medication-focused visit with pharmacist and internal medicine resident **Target patients taking ≥ 10 medications Patient** Staff visit **Pre-visit** receives with screening education attending **Patient Assess for** Follow up in presents drug related one month with problems medications



Polypharmacy Clinic Value

- 5-6 patients scheduled per ½ day
 - 1 attending physician, 1-2 medical residents, 2 pharmacists, medical students, pharmacy students
 - Could be modified to pharmacist only
- Pharmacist billing opportunities for select insurers
- Up-to-date medication list in EMR

Transitional Care Coordination

Stuart Beatty, PharmD, BCACP, CDE Associate Professor of Clinical Pharmacy The Ohio State University College of Pharmacy

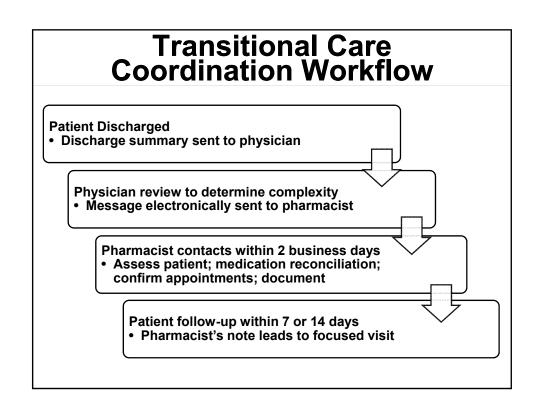
- 99495/99496 introduced in January 2013
- Contact by "licensed clinical staff" within 2 business days of discharge from acute care setting

Type of contact

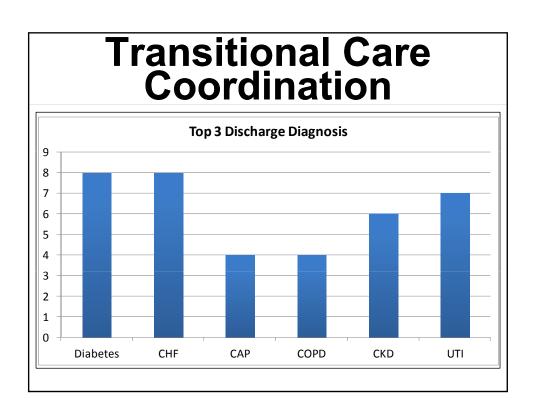
- Phone
- Email
- Face-to-face

Acute Care Setting

- Acute or rehabilitation hospital
- Observation unit
- Nursing facility
- Face to face visit with physician within 7-14 days
- Continued coordination 30 days post-discharge

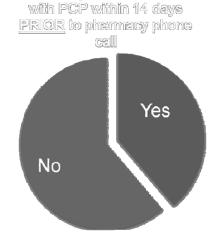


- Results from 4/1/13 7/31/13 (n=68)
- Demographics
 - **Female 62%**
 - Mean age 67.1
 - White 66%; African American 31%
 - Medicare 60%; Private 22%

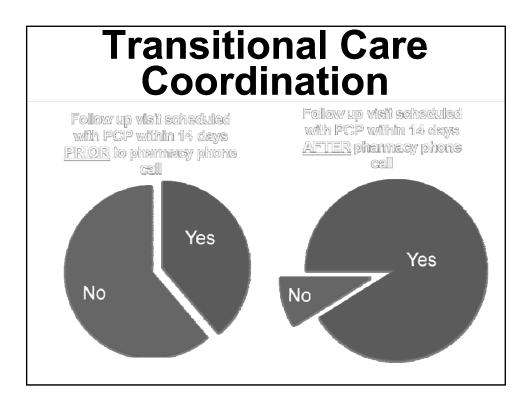


- Discharge location:
 - OSUWMC 59%
- Average medications upon discharge 14.7
 - 37.3% on opioid
 - 34.3% on anticoagulant
 - 25.3% on antibiotic
 - 25.3% on insulin

Transitional Care Coordination



Follow up visit scheduled



- Medication-related problems
 - Identified in 60% of phone calls

Did not start NEW medication	15
Taking medication incorrectly (e.g., wrong dose, time)	10
Continued to take a STOPPED medication	5
Experienced adverse effect	5
Warfarin without INR monitoring scheduled	6

CPT code	tRVU	wRVU	tRVU - wRVU
99214	3.13	1.49	1.64
99495	4.82	2.11	2.71
99215	4.20	2.10	2.10
99496	6.79	3.05	3.74

- Efficient hospital follow-up visit
- Reduced rehospitalizations?

Why patients do not fill their prescriptions

Common drugdrug interactions

Population Management

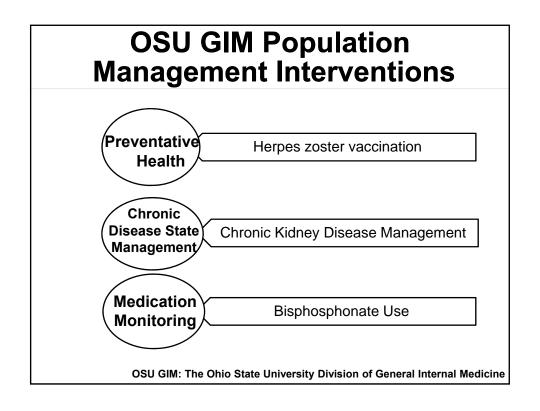
Kelli Barnes, PharmD, BCACP Associate Professor of Clinical Pharmacy The Ohio State University College of Pharmacy

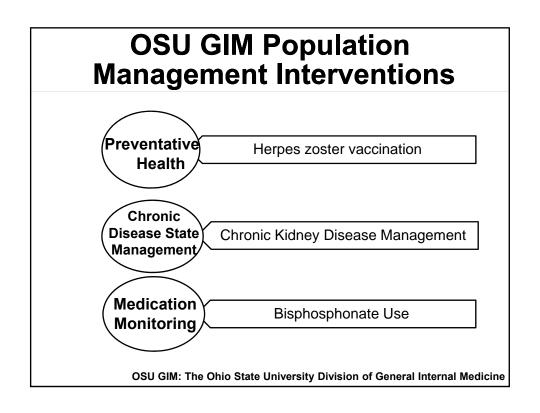
Population Management

- Uses EMR-reporting capabilities
 - Patient registries (PCMH requirement)
- Proactive, targeted interventions
- Incorporates team-based care
- Improves outcomes in specific population
- Can be completed outside of an office visit

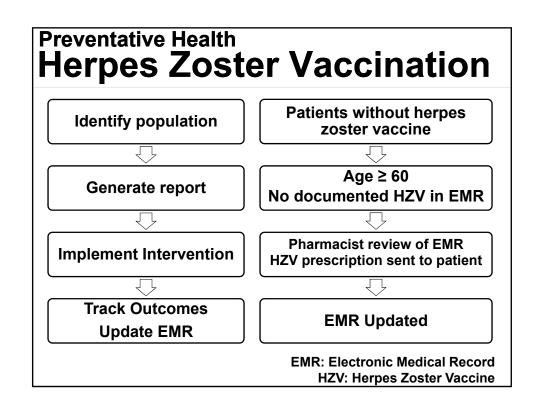
EMR: Electronic Medical Record

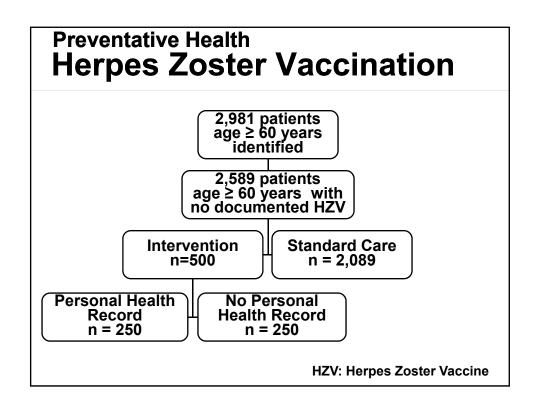
Population Management Process Identify population Generate report Implement Intervention Track Outcomes Update EMR

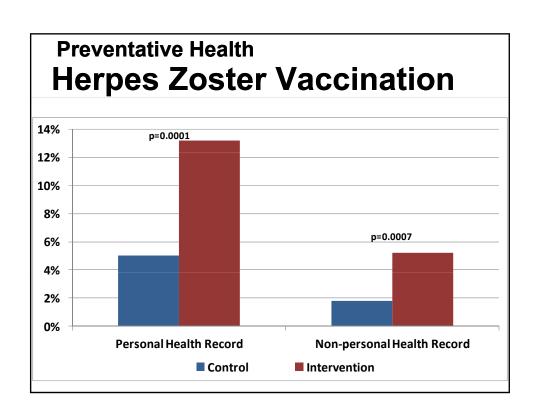


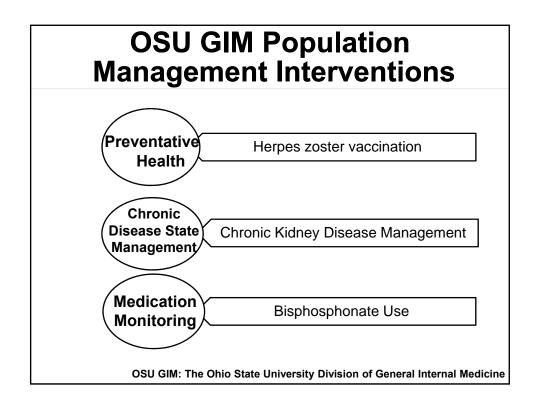


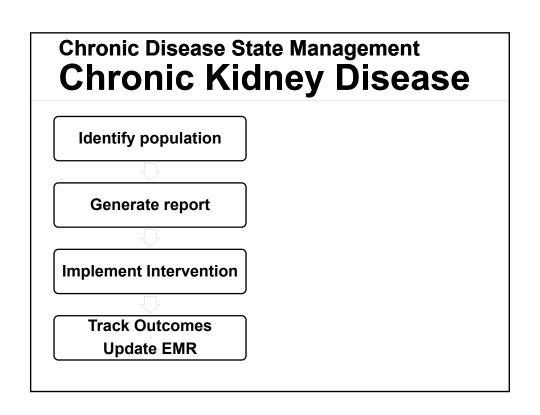
Preventative Health Herpes Zoster Vaccination Identify population Generate report Implement Intervention Track Outcomes Update EMR EMR: Electronic Medical Record HZV: Herpes Zoster Vaccine

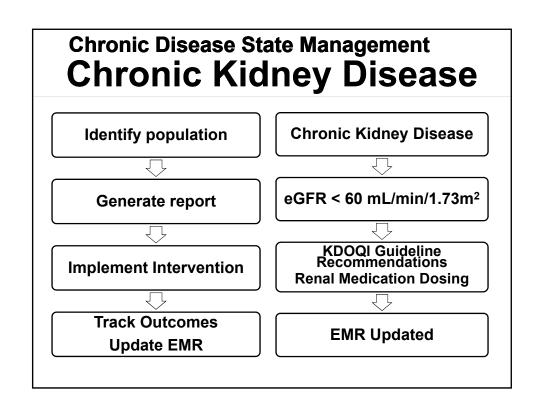




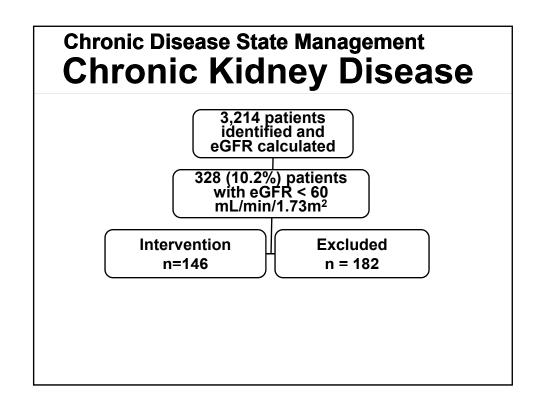


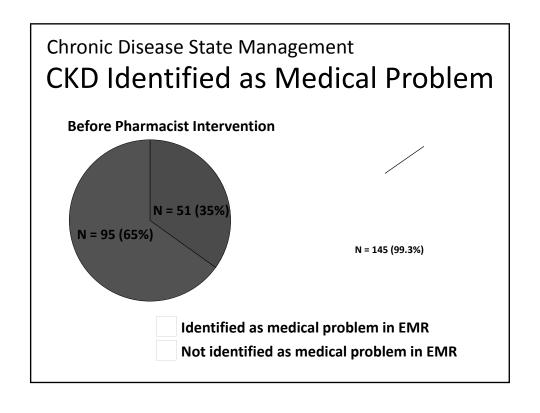


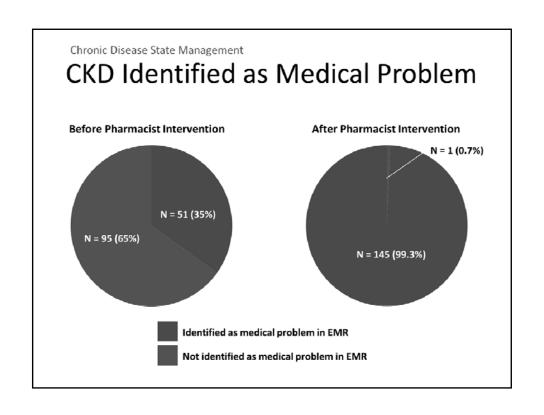


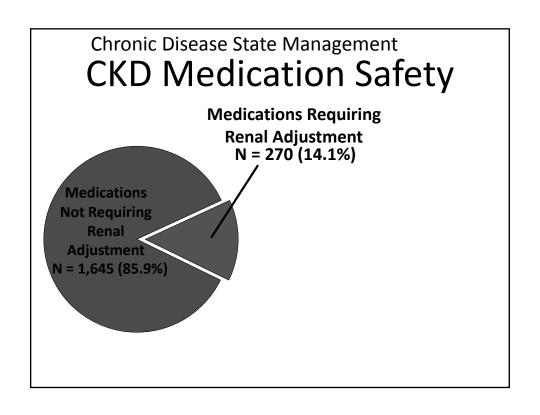


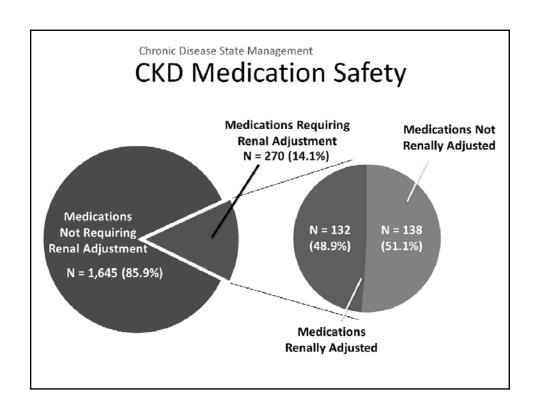
Chronic Disease State Management				
CKD Baseline Characteristics				
Sex	N = 146			
Female	96 (65.8%)			
Mean Age in years	71.6 ± 12.2			
Mean Number of Medications on List	13 ± 5			
Race				
African American	24 (16.4%)			
White	112 (76.7%)			
Other	10 (6.8%)			
CKD Stage				
Stage 3	139 (95.2%)			
Stage 4	5 (3.4%)			
Stage 5	2 (1.4%)			
Comorbidities				
Hypertension	123 (84.3%)			
Diabetes	54 (37%)			

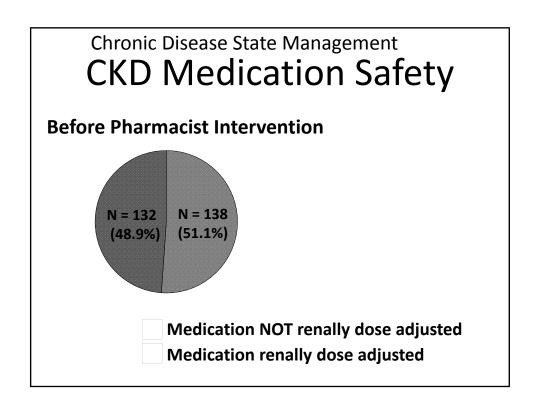


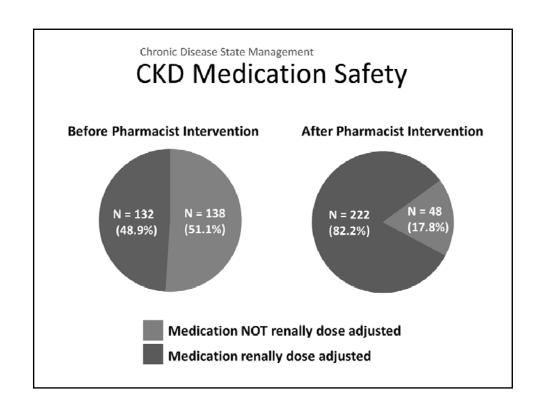


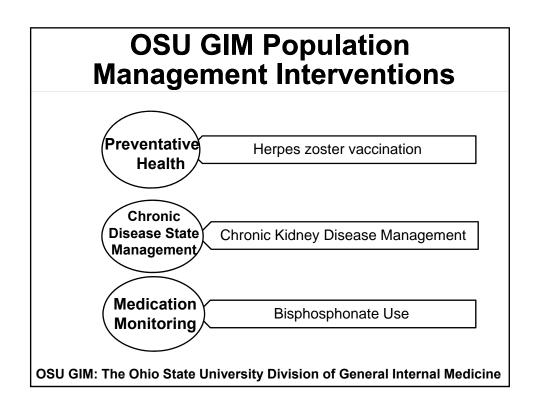




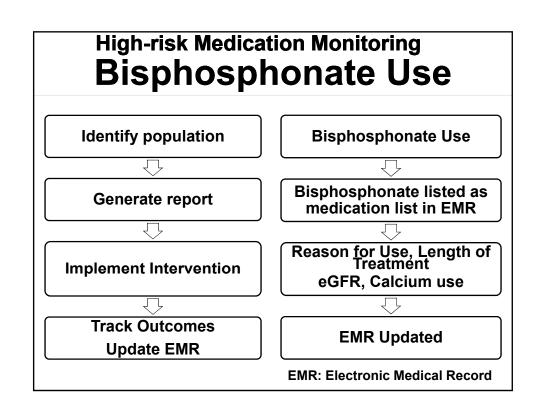


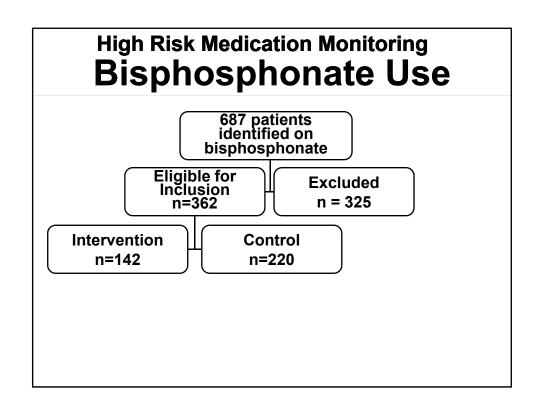


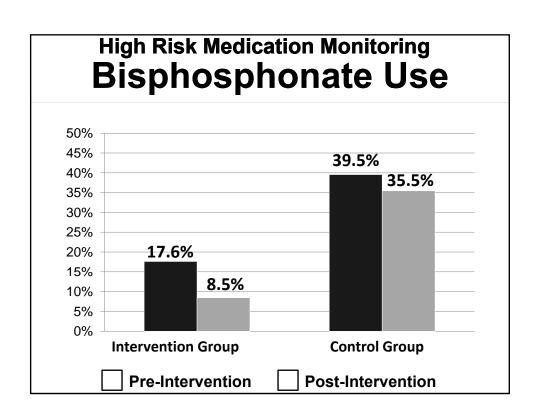


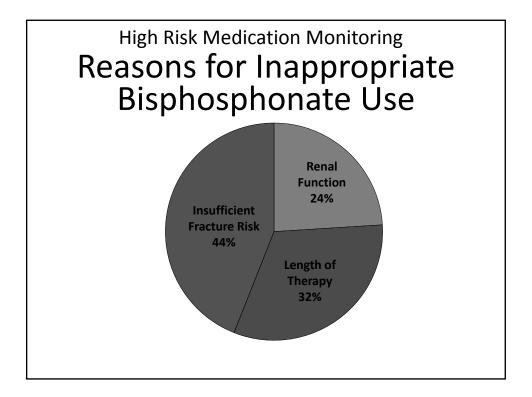


High-risk Medication Monitoring Bisphosphonate Use Identify population Generate report Implement Intervention Track Outcomes Update EMR EMR: Electronic Medical Record









Population Management

- Proactive, targeted interventions
 - MANY other opportunities
- Team-based care
- Can occur outside of office visit
- Patient-centered medical home credentialing, etc
- Improves patient outcomes