

Making an Impact: Advancing Pharmacy Services

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The University of Mississippi School of Pharmacy



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Making an Impact: Advancing Pharmacy Services

Objectives

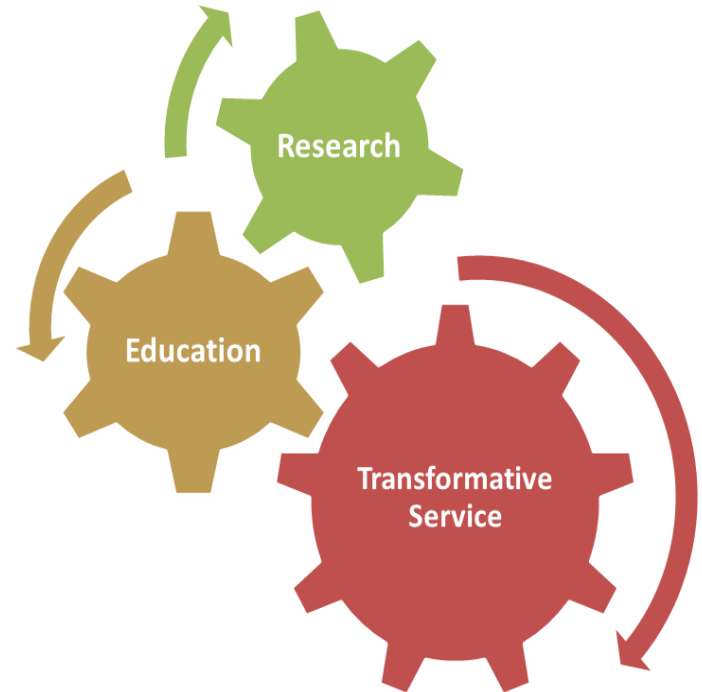
1. Discuss the School of Pharmacy Community-Based Research Program
2. Identify a model of care for pharmacist involvement in clinical services
3. Examine results from Project IMPACT: Diabetes
4. Facilitate an interactive discussion on advancing pharmacy services



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University of Mississippi School of Pharmacy Community-Based Research Program

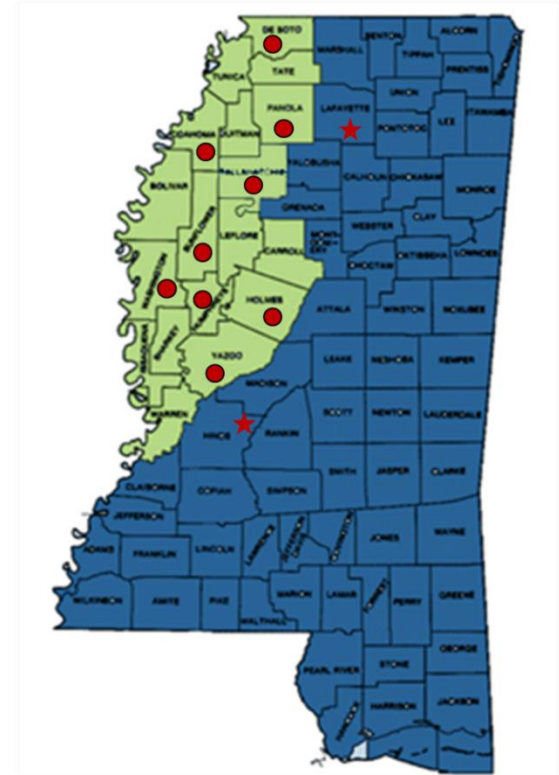
- Increase access to care
- Improve patient outcomes
- Evaluate impact of services



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Community-Based Research Program

- 18 county region
- Rural area
- High levels of poverty
- Large African American population
- Vulnerable to health disparities
- Lack of access to services
- Poor health outcomes



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Community-Based Research Program

Completed Projects

- Delta Pharmacy Patient Care Management Project – HRSA/DHA
- Delta Pharmacy Obesity Management Project – HRSA/DHA
- Active Surveillance Attitudes and Perceptions in Prostate Cancer – NRHA/Emory
- Million Hearts Initiative: Team Up, Pressure Down – CDC/NACDS Foundation
- Project IMPACT: Diabetes – APhA Foundation
- Beacon Community Cooperative Agreement – DHHS/ONC/DHA
- Million Hearts Initiative: Team Up, Pressure Down Pioneer Challenge – AACP/Pharmacy Network Foundation
- Rapid HIV Testing in Pharmacies and Retail Clinics Demonstration Project – CDC

Ongoing Projects

- Pharmacy Cardiovascular Risk Reduction/Delta Health Collaborative – CDC/MSDH
- Patient Safety and Clinical Pharmacy Services Collaborative – HRSA/PSPC
- Community Pharmacy Residency Expansion Project (PREP) – NACDS Foundation
- Southern U.S. Diabetes Coalition Project – CMS Innovation Award/MSPHI

New Projects

- Pharmacist Linkage in Care Transitions with UMMC/Walgreens – NACDS Foundation
- Diabetes Rural Telehealth Network – UMMC/GE Healthcare

Community-Based Research Program

- **Medication Therapy Management Model Implementation**
 - Community Pharmacies, Provider Clinics, Employer Settings
 - Generalized (2 or more medications, 2 or more disease states)
 - Specialized (Diabetes, hypertension, dyslipidemia, asthma)
 - Evaluation of Clinical, Humanistic, and Economic Outcomes
- **Health Care Assessments**
 - Disease-specific
 - Health Literacy
 - Medication Adherence, Patient Safety
- **Education**
 - Patient, Provider, Student and Resident Training
- **Transitions of Care**
 - Institutional to Community Setting
 - Readmission Rates, Clinical Outcomes



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Project IMPACT: Diabetes

IMProving America's Communities Together

- National diabetes self-management program
- Conducted by the American Pharmacists Association (APhA) Foundation in partnership with the Bristol-Myers Squibb Foundation's Together on Diabetes initiative

Bristol-Myers Squibb Foundation



Communities Uniting to Meet America's Diabetes Challenge

Project IMPACT: Diabetes

Objectives

- Scale successful efforts from the Asheville Project and Diabetes Ten City Challenge
- Place pharmacists on diabetes care teams in communities across the U.S.
- Establish a nationwide program utilizing the APhA Foundation's structure and process model in communities most affected by diabetes



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Project IMPACT: Diabetes

IMPROVING DIABETES OUTCOMES IN
25 COMMUNITIES

25 communities in
17 states



Project IMPACT: Diabetes

Participating Organizations

- Community pharmacies
- University-affiliated clinics
- Self-insured employers
- Federally Qualified Health Centers
- Free Clinics



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Project IMPACT: Diabetes

Community Resources

- Knowledge Base (online database)
 - Rich, role-based source of sample forms and tools
 - Patient education resources
- IMPACT Care Database
 - Microsoft® Access Database → SQL Server Database
 - Collects/reports minimum and maximum IMPACT datasets
- IMPACT Technical Advisory Services
 - Community Coordinator providing mentorship
 - 800 number and e-mail address with 24/7 access



Project IMPACT: Diabetes

Methods

- Recruitment September 2011-January 2012
- Inclusion Criteria
 - Diagnosis of diabetes, Hemoglobin A1c (HbA1c) >7%, and able to present to clinic site for visits
- Exclusion Criteria
 - Age <18 y/o, institutionalized, unable to give written consent, pregnant
- A minimum of three documented meetings with pharmacist with at least 3 months between visits over a 12-month period of time



Project IMPACT: Diabetes

Clinical and Process Measure Reporting

- **Demographic Information**
 - Age
 - Ethnicity
 - Gender
 - IMPACT Start Date
 - Local HIPAA Consent Date
 - Withdrawal Date & Reason (as applicable)
- **Visit Information**
 - Visit Number
 - Visit Date/Time
 - Length of Visit (in minutes)
 - ACE/ARB Therapy
 - Aspirin Therapy
 - Hypertension Therapy
 - Cholesterol Therapy
 - MTM Core Elements



Project IMPACT: Diabetes

Clinical and Process Measure Reporting

- **Assessment Information (including dates)**

- A1C
- BMI
- Systolic Blood Pressure
- Diastolic Blood Pressure
- LDL Cholesterol
- HDL Cholesterol
- Triglycerides
- Total Cholesterol
- Smoking Status
- Eye Exam
- Foot Exam
- Influenza Vaccine

Demographic data collected at baseline only. Visit & assessment data collected at baseline and subsequent visits.



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Project IMPACT: Diabetes

National Interim Results

Outcome Measure	N =	Baseline	Most Recent	Change to Date	P Value
A1C	1580	9.0	8.3	-0.7	0.000
BMI	1699	35.1	34.9	-0.2	0.000
Systolic BP	1702	131.8	129.9	-1.9	0.000
Diastolic BP	1702	78.7	78.0	-0.7	0.004
LDL-C	966	99.5	92.2	-7.3	0.000
HDL-C	1026	43.5	44.3	+0.7	0.012
Triglycerides	1029	215.2	187.3	-27.9	0.000
Total Cholesterol	1026	181.3	171.9	-9.3	0.000

Interim clinical data through July 31, 2012

Interim results released October, 2013



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Project IMPACT: Diabetes

University of Mississippi Site

Site: Diabetes Care Group, Jackson, MS

Pharmacists : Courtney Davis, PharmD, BCACP
Community Pharmacy Residents

Study Duration: September, 2011- January, 2013



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Project IMPACT: Diabetes

University of Mississippi Site - Workflow

- Pharmacist-Patient visit
 - Comprehensive medication review
 - Lab/blood glucose assessment
 - Disease state education
- Pharmacist-Provider consultation
 - Therapeutic recommendations
 - Collaborative plan
- Provider physical assessment
- Pharmacist-Patient follow-up



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Project IMPACT: Diabetes

University of Mississippi Site – Pharmacist Role

- MTM services
 - Disease state education
 - Medication review
 - Therapeutic recommendations
 - Collaborative Plan
 - Therapy changes
- Patient consults
- Drug information source
- Telephonic MTM
 - Blood glucose review
 - Therapeutic recommendations
 - Collaborative Plan
 - Therapy changes
- Preceptor
 - Students
 - Residents



Project IMPACT: Diabetes

University of Mississippi Site - Results

- Study concluded January 31, 2013
- 64 patients met minimum study requirements
- Demographics
 - Male (48%), Female (52%)
 - Caucasian (64.1%), African American (32.8%), Native American (1.6%), Hispanic (1.6%)



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Project IMPACT: Diabetes

University of Mississippi Site - Results

Outcome Measure	N =	Baseline	Most Recent	Change to Date	P Value
A1C	64	9.2	8.0	-1.2	0.000
BMI	64	36	35.8	-0.1	0.277
Systolic BP	64	136.8	128.5	-8.3	0.000
Diastolic BP	64	79.4	75.9	-3.5	0.031
LDL-C	32	99.2	82.6	-16.6	0.006
HDL-C	40	36.3	40.6	+ 4.3	0.001
Triglycerides	41	233.4	176.3	-57.1	0.006
Total Cholesterol	41	174.9	161.0	-13.8	0.024

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Project IMPACT: Diabetes

University of Mississippi Site - Results
Compared to National Program

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Breakout Session



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