Re-Thinking Drug Benefits:

Medication Use as an Investment in Health, Not a Cost Center

Troy Trygstad PharmD MBA PhD

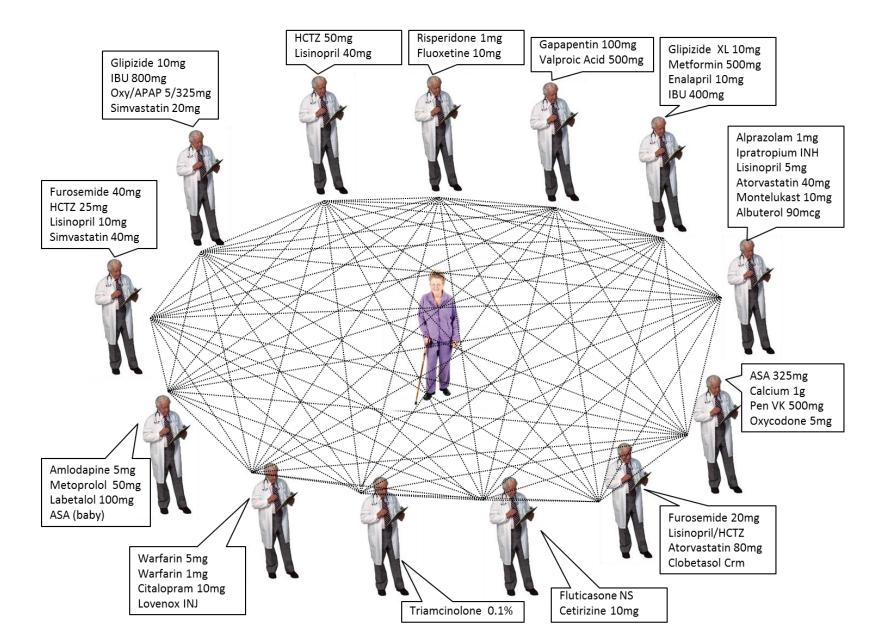
VP, Pharmacy Programs – Community Care of North Carolina

Employer's Forum

March 10th, 2015

Why focus on medication optimization?

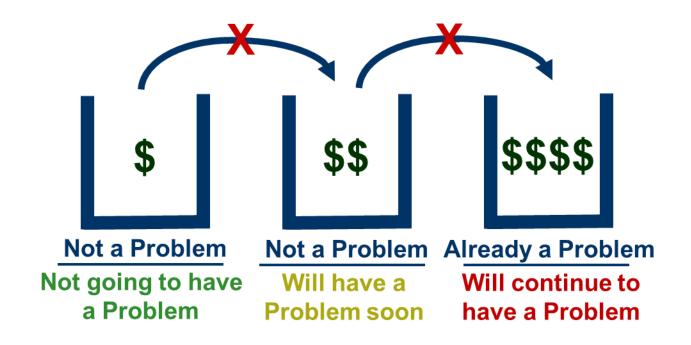
For Many, Medication Use is Chaotic



Current State: by the Numbers....

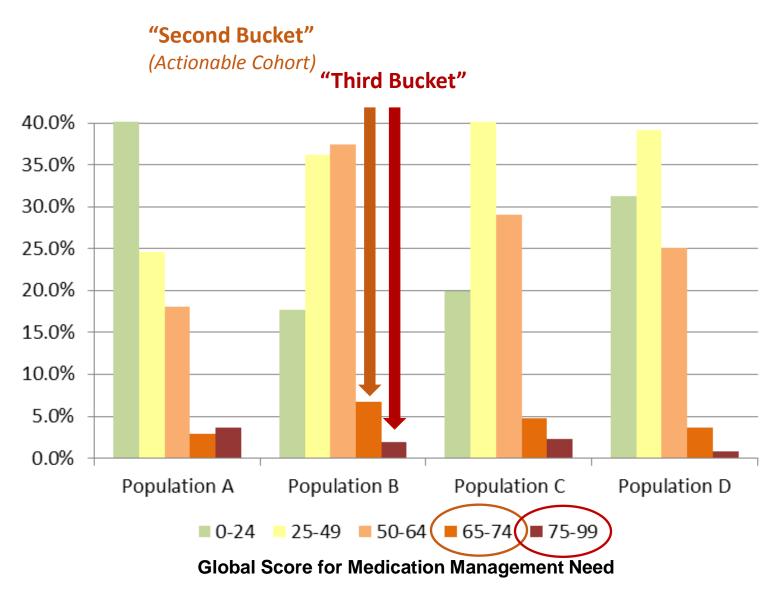
- ~1/3 of all Americans take 5 or more medications
- ~ 1/3 of prescriptions never get filled, ~1/3 that get filled are
 not continued
- Non-Adherence to medications leads to ~\$300B in avoidable health care costs
- ~60% of patients who become institutionalized must do so because of a drug related issue
- ~20% of patients experience adverse events (AEs) within 3
 weeks of discharge from hospital
- 1 in 3 heart failure patients is readmitted within 1 month from drug related event

The Importance of Understanding and Addressing Sub-Optimal Medication Use



Drug use is an excellent prognostic indicator of bucket transition

The "Silent" Cost Center: The "Near Sick"



What do you call a program that leads to medication optimization?

Medication Therapy Management. Medication Management. Pharmacy Care Services. Pharmaceutical Care. Drug Regimen Review. **Drug Utilization Review. Clinical Pharmacy Services. Pharmacy Care Management. Pharmacy Cognitive Services.** Medication Management Services.

A Rose By Any Other Name Would Smell as Sweet.

The Goal (Simply Put):

Optimize Medication Use to Drive Better
Outcomes

(The substance of it is more important than the nomenclature)

Medication Optimization: The Substance of it.

The Substance of It: Universal Elements

Well Coordinated

All Medication Orders and Discontinuations are well known to the rest of the Care Team (including caregivers)

Goal-Oriented

Each Medication Prescribed has a Therapeutic Goal Assigned to It

Continually Reinforced

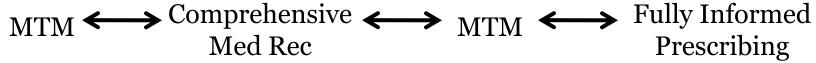
Every Encounter with the Health Care System includes re-visit and reinforcement of the Drug Use Plan

Drug Use Plan

Each Patient's Drug Use Plan in Individualized

Example: Transitions of Care

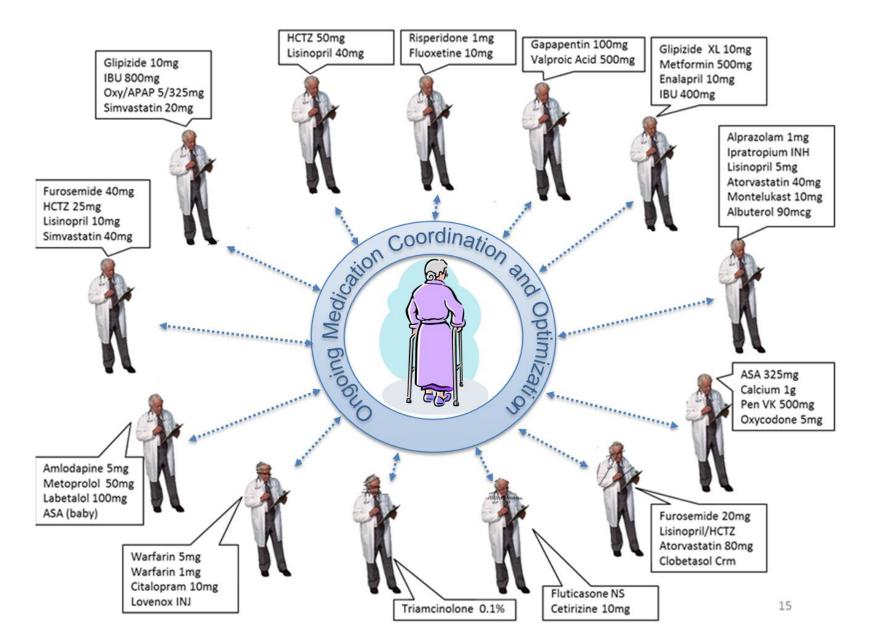




<u>Involves Multiple provider types involved in multiple settings</u>

Goal: Create a 1) Well-Coordinated, 2) goal-oriented, 3) continually re-enforced, 4) drug <u>use</u> plan

Example: Polypharmacy Management



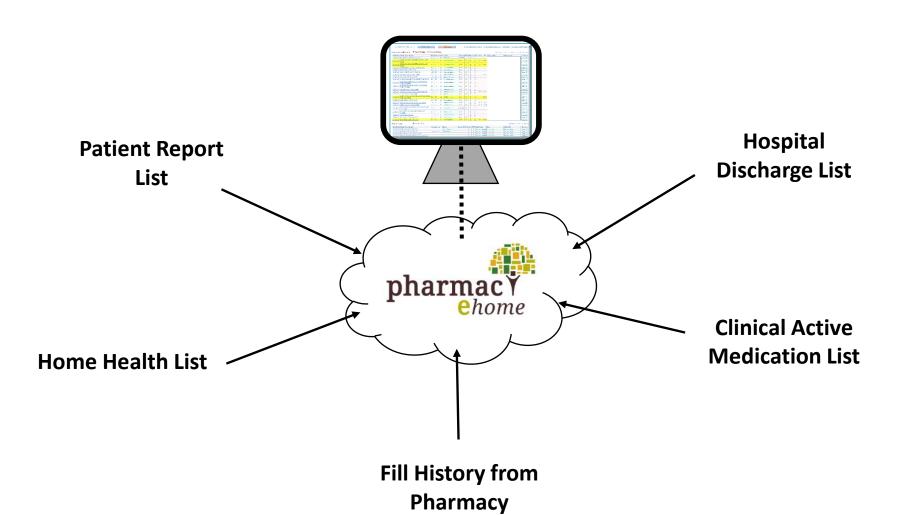
Example Project here in Indiana.



Pharmacy Home

PROJECT

"Create a Pharmacy Home, virtual or otherwise, where <u>drug use</u> information from multiple sources* is gathered to better inform prescribing and intervention strategies"



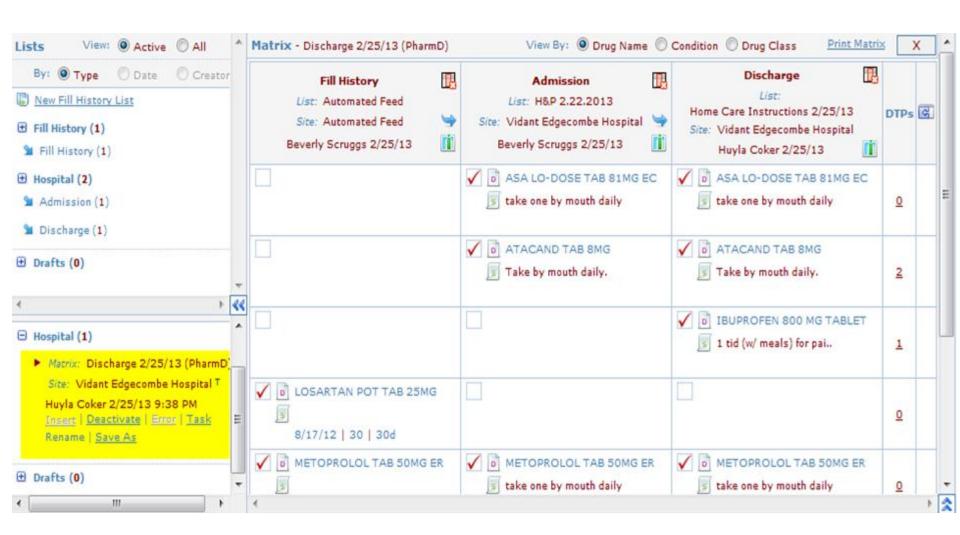
Consolidated Med List



Consolidated Med List Meducation	n		Q	care TRIAGE		Print	Pha	rmacy	<u>Profile</u>	<u>Print</u>	t Pocket Med Lis	t Add Task NC DOC	Information
Prescription Fill History © Current Regimen © Complete History													
	_		-									ns: Send To History	
Fill Date Drug Description				Class	Payer	DOC			Gap	AI	Prescriber	Pharmacy	Source
11/09/13 ADVAIR DISKU AER 250/50	60	30	\$0	Adrenergic C	Pref/PA		0	0					ESI (4)
11/13/13 CITALOPRAM HYDROBROMIDE TAB 20MG	30	30	\$0	Selective Se	Pref	4	0	1	20	0.46			ESI (4)
11/13/13 CITALOPRAM HYDROBROMIDE TAB 40MG	30	30	\$0	Selective Se	Pref	4	0	0	20	0.46			ESI (2)
10/12/13 CLINDAMYCIN HCL CAP 300MG	40	10	\$0	Lincosamides	Pref	¥	0	0					<u>User (2)</u>
12/04/13 DIAZEPAM TAB 5MG	30	10	\$0	Benzodiazepi	Pref		0	0					ESI (2)
8/13/13 GABAPENTIN CAP 300MG	180	30	\$0	Anticonvulsa	Pref	4	0	0					<u>User (5)</u>
11/26/13 GABAPENTIN TAB 600MG	90	90	\$0	Anticonvulsa	Pref	\checkmark	0	0		1.05			ESI (4)
2/16/13 HUMULIN R INJ U-100	10	28	\$0	Human Insuli	Pref		0	0					<u>User (5)</u>
2/16/13 HYDROCHLOROTHIAZIDE TAB 25MG	30	30	\$0	Thiazides an	Pref	4	0	0					<u>User (4)</u>
10/12/13 HYDROCODONE/ACETAMINOPHEN TAB 5-325MG	20	5	\$0	Hydrocodone	Pref	4	<u>0</u>	<u>0</u>					ESI (2)
1/03/14 HYDROCODONE/ACETAMINOPHEN TAB 7.5-325	30	5	\$0	Hydrocodone	Pref	✓	0	<u>o</u>					ESI (2)
6/04/13 IBUPROFEN TAB 800MG	30	8	\$5	Nonsteroidal	Pref	4	0	0					MNC (3)
8/22/13 LANTUS SOLOSTAR INJ SOLOSTAR	15	28	\$0	Human Insuli	Pref		0	0	105*	1.06			ESI (7)
2/16/13 LISINOPRIL TAB 20MG	30	30	\$0	ACE Inhibito	Pref	4	0	0					<u>User (4)</u>
11/26/13 LISINOPRIL/HYDROCHLOROTHIAZIDE TAB 20-25MG	30	30	\$0	ACE Inhibito	Pref	4	0	<u>0</u>		0.51			ESI (7)
10/22/13 LORAZEPAM TAB 1MG	40	20	\$0	Benzodiazepi	Pref	\checkmark	0	0					ESI (4)
8/22/13 NOVOLOG FLEXPEN INJ FLEXPEN	15	30	\$0	Human Insuli	Pref		0	0	103*	1.06			ESI (5)
7/26/13 OMEPRAZOLE CAP 40MG	30	30	\$0	Proton Pump	Pref	\checkmark	0	0	130*	1 Fill			ESI (3)
12/14/13 OXYCODONE/ACETAMINOPHEN TAB 5-325MG	20	3	\$0	Opioid Combi	Pref/PA	✓	0	<u>0</u>					ESI (3)
10/20/13 PENICILLIN V POTASSIUM TAB 500MG	40	10	\$0	Natural Peni	Pref		<u>0</u>	<u>0</u>					<u>User (3)</u>
7/24/13 PROAIR HFA AER	9	30	\$0	Beta Adrener	Pref		0	0					ESI (3)
7/04/13 RISPERIDONE TAB 1MG	60	30	\$0	Benzisoxazol	Pref	\checkmark	0	0					<u>User (6)</u>
11/13/13 RISPERIDONE TAB 2MG	60	30	\$0	Benzisoxazol	Pref	4	0	0	20	0.41			ESI (2)
Other Entries Atl Options: Send To History													
Added On Drug Description	Fre	quen	су (Class	Payer D	OC A	lert	DTP Li	st Typ	e S	Site .	Added By	Source
10/27/13 FISH OIL CAP 1000MG			1	Misc. Nutrit			0	<u>0</u> P	atient-l	lome H	Home visit	Barbara Betts	<u>User (2)</u>
10/27/13 ASPIRIN TAB 81MG EC	on	ce dail	ly S	Salicylates			0	<u>0</u> P	atient-l	lome H	Home visit	Barbara Betts	<u>User(1)</u>
10/27/13 Albuterol Sulfate 0.63mg/3ml							0	<u>0</u> P	atient-l	lome H	Home visit	Barbara Betts	<u>User(1)</u>
10/27/13 NOVOLOG INJ 100/ML subcutaneous							0	<u>0</u> P	atient-H	lome l	Home visit	Barbara Betts	<u>User (2)</u>

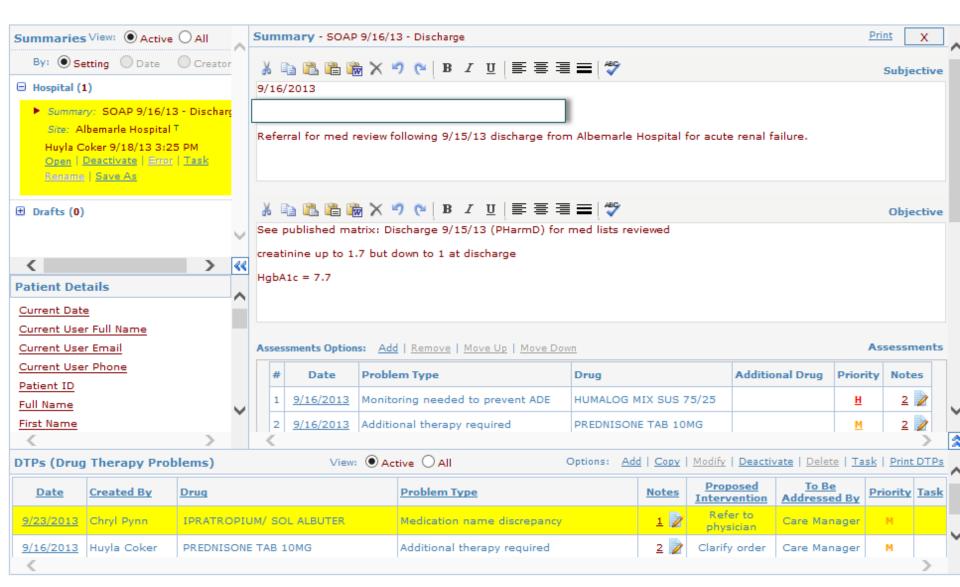
Medication Matrix





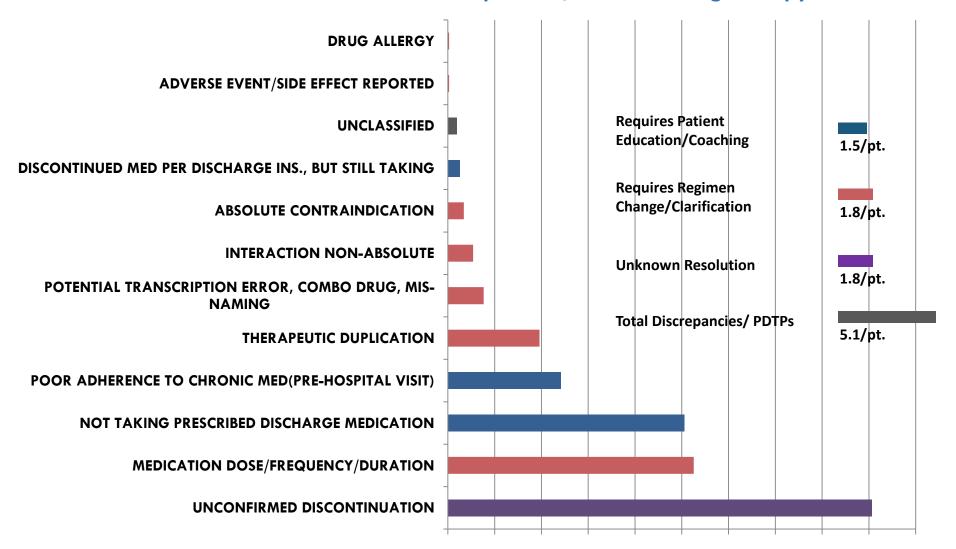
Shared Pharmacy Record





Descriptive Findings from The Pharmacy Home Project

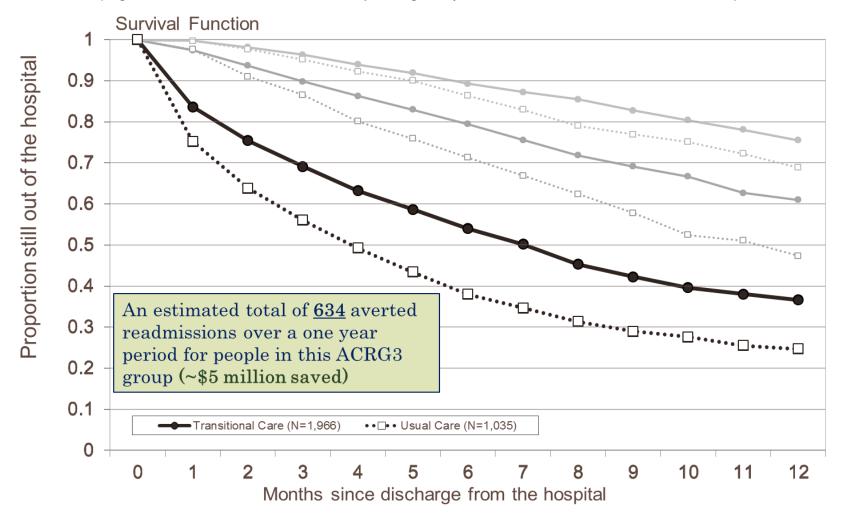
Transitional Care: Prevalence of Med Discrepancies / Potential Drug Therapy Problems



www.pharmacyhomeproject.com

Transitional Care Example: Health Affairs

Time to First Readmission for Patients Receiving Transitional Care Versus Usual Care
Lighter shaded lines represent time from initial discharge to second and third readmissions
(Significant Chronic Disease in Multiple Organ Systems, Levels 5 & 6; ACRG3 = 65-66)



All CCNC enrolled at the time, or within 30 days, of discharge; inpatient discharges during SFY2011, excluded members dually enrolled at any point during the study period.

Scale matters.

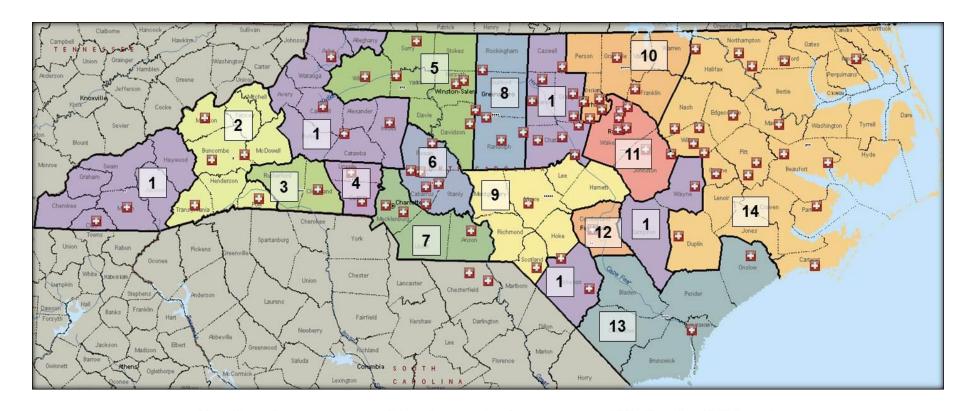


Each dot represents the home address of a client who received transitional care services between July 2011 and June 2012. As of December 2012, we are providing transitional care management for approximately 4500 patients per month.

Community Pharmacy Emerging.

CCNC Focus Population(s)

			E	CCNC nrollees					Eni	ollees on
	CCNC		W	ith total	En	rollees on	Enrollees on TC Priority		Medication Management	
			me	dical cost		CCNC				
	Enrollees		>	\$10,000	Pı	riority list	list		Priority list	
Total number of members		1,348,229		112,529		17,753		153,241		6,377
Total medical cost	\$	4,078	\$	27,527	\$	23,813	\$	18,215	\$	25,345
# of Inpatient visits		0.11		0.52		1.41		0.45		1.04
Inpatient costs	\$	369	\$	3,464	\$	5,337	\$	2,924	\$	6,456
# of mental health inpatient vi		0.01		0.04		0.04		0.04		0.04
ED visits		0.67		1.65		2.94		1.74		3.05
ED cost	\$	178	\$	745	\$	1,262	\$	816	\$	1,657
Outpatient visits		4.30		9.43		12.04		8.70		12.28
Mental health outpatient visit		0.62		1.88		1.04		1.53		1.14
PCP visits		2 09		2 91		2 53		2 65		3 52
Pharmacy costs (Pre Rebate)	\$	721	\$	5,177	\$	3,342	\$	4,298	\$	6,183



- AccesCare 1)
- **Community Care of** 2) Western Carolina
- 3) Carolina Community **Health Partners**
- **Community Health Partners**
- Northwest Community 10) Northern Piedmont 5) **Care Network**
- **Community Care of** Southern Piedmont

- **Community Care** Partners of Greater Mecklenburg
- Partnership for **Community Care**
- **Community Care of the** Sandhills
 - **Community Care**
- 11) Community Care of Wake/Johnston Counties

- 12) Carolina Collaborative **Community Care**
- 13) Community Care of the **Lower Cape Fear**
- 14) Community Care Plan of **Eastern Carolina**

Historical Findings of *Intensive*Medication Optimization Programs.

Med Optimization: by the Numbers.... Medicare and Medicaid

Carillion Clinic -Estimated 3-Year savings \$4,308,295 (~2,500 patients)

Mississippi-Medicaid -\$2,655/year reduction in Total Cost of Care

Minnesota-Medicaid -\$403.30 saved per patient/ year for diabetes

Connecticut-Medicaid -\$472 reduction in medical and hospital costs/year

-Thanks to Gloria Sachdev for Compiling

Med Optimization: by the Numbers.... State Employees

Maryland P3 Program-

-~\$980/year reduction in Total

Cost of Care

-ROI \$3.5:\$1.0

-Reduced A1C, LDL, and BP

KY PharmacistCARE-

-Reduced A1C, LDC, TC, TGs -Inc. Immunizations/Screenings

Med Optimization: by the Numbers.... **Self-Insured Employers**

-~\$1,200 Reduction in PMPY Cost Ashville Project -\$CV Events Reduced from 77/100 to 38/1000

-Reduced A1C, LDL, TGs, TC, BP

-\$1.6/\$1.0 ROI in first 6 months Multi-Employer Cardiovascular Project

> -\$1,079 Reduction in PMPY Cost -Dramatic improvements in immunizations and screenings

> > -Thanks to Gloria Sachdev for Compiling

Ten City Challenge

Smith M, et al. In Connecticut: Improving Patient Medication Management In Primary Care. Health Affairs 2011:646-654.

Ramalho de Oliveira, et al. Medication Therapy Management: 10 Years of Experience in a Large Integrated Health Care System. J Manag Care Pharm 2010;16:185-95

DeName B, Divine H, Nicholas A, Steinke DT, Johnson CL. Identification of medication-related problems and health care provider acceptance of pharmacist recommendations in the DiabetesCARE program. J Am Pharm Assoc (2003). 2008 Nov-Dec;48(6):731-6. doi: 10.1331/JAPhA.2008.07070.

Bunting BA, Cranor CW. The Asheville Project: long-term clinical, humanistic, and economic outcomes of a community-based medication therapy management program for asthma. J Am Pharm Assoc (2003). 2006 Mar-Apr;46(2):133-47.

Bunting BA, Smith BH, Sutherland SE. The Asheville Project: clinical and economic outcomes of a community-based long-term medication therapy management program for hypertension and dyslipidemia. J Am Pharm Assoc (2003). 2008 Jan-Feb;48(1):23-31. doi: 10.1331/JAPhA.2008.07140.

Wittayanukorn S, Westrick S, Hansen RA. Evaluation of Medication Therapy Management Services for Patients with Cardiovascular Disease in a Self-Insured Employer Health Plan.

Fera T, Bluml BM, Ellis WM. Diabetes Ten City Challenge: Final economic and clinical results. J Am Pharm Assoc. 2009; 49:383-91.

-Thanks to Gloria Sachdev for Compiling

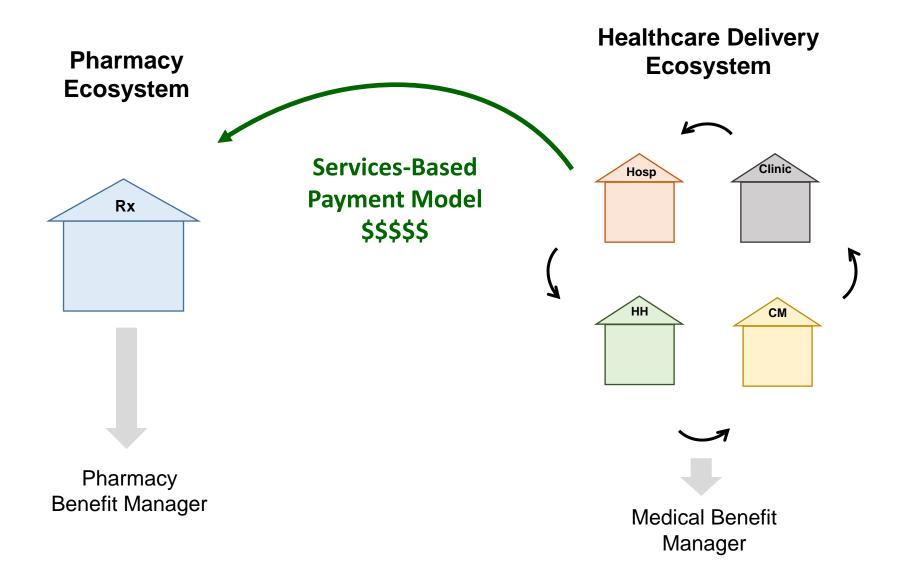
You are in an Advantageous Position as Employers

Pharmacy Benefits and Medical Benefits: A world apart.

Pharmacy Healthcare Delivery Ecosystem Ecosystem Clinic Hosp Rx СМ Pharmacy Benefit Manager **Medical Benefit**

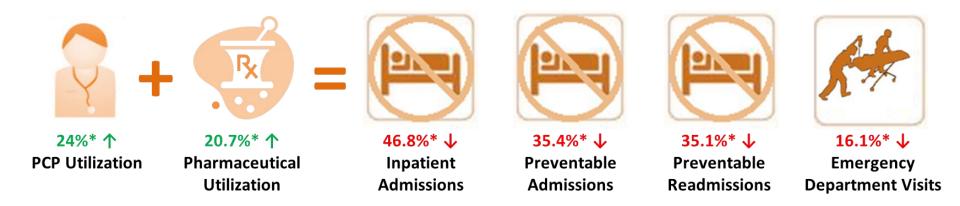
Manager

Pharmacy Benefits and Medical Benefits: Bridging the Gap.



Pharmacy Benefits and Medical Benefits:

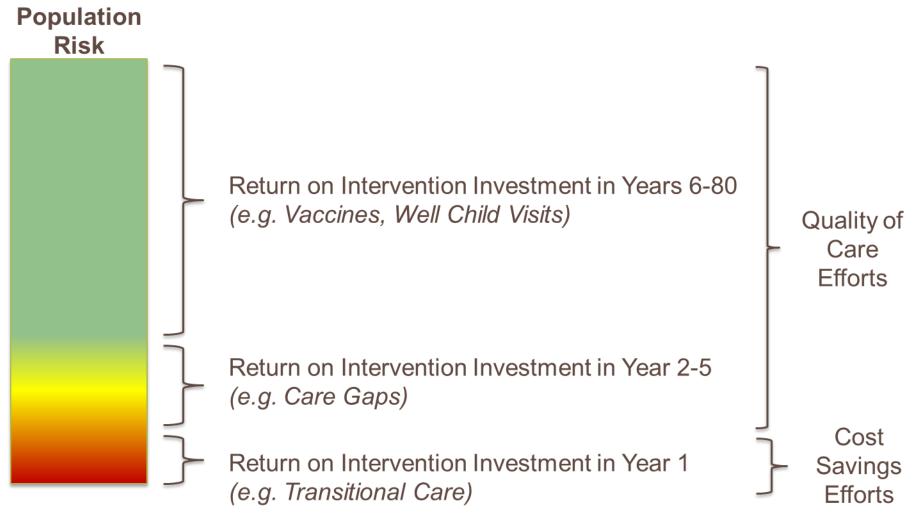
When considered together- Primary Care and Medication Use become *Investments – Not Cost Centers*



^{*}Absolute percentage difference between actual and expected rates for CCNC enrolled vs. unenrolled
Treo Solutions Performance Analysis: Healthcare Utilization of CCNC-Enrolled Population - 2010 ABD Enrolled vs. ABD Unenrolled

Final Thought.

The Importance of Time Horizon and Program Expectations



Questions?