

AMGA Foundation National Diabetes Campaign



Monthly Campaign Webinar August 15, 2019

Today's Webinar

- Together 2 Goal[®] Updates
 - Webinar Reminders
 - 2019 AMGA IQL
 - AMGA Acclaim Award
 - T2G Plank Mentors
- Embedded Pharmacists in Primary Care
 - James Kalus, Pharm.D. of Henry Ford Medical Group
- Q&A
 - Use Q&A or chat feature





Webinar Reminders

- Webinar will be recorded today and available the week of August 19th
 - www.Together2Goal.org
- Participants are encouraged to ask questions using the "Chat" and "Q&A" functions on the right side of your screen





2019 AMGA Institute for Quality Leadership



Embracing Disruption Delano Las Vegas Las Vegas, NV

September 25 – 28th



AMGA Acclaim Award

- Applications due: Friday, October 18th
- Webinar on Wed., August 7th at 3:00 P.M. (ET) for more information



Acclaim Award



T2G Plank Mentors





Today's Featured Presenter





James Kalus, Pharm.D. Henry Ford Medical Group



Embedded Pharmacists in Primary Care

James Kalus, PharmD Director of Pharmacy, Henry Ford Health System jkalus1@hfhs.org

Objectives



- 1. Compare and contrast the skills and knowledge of the pharmacist, relative to other traditional members of the primary care team
- 2. Describe the role of the pharmacist embedded in a primary care clinic
- 3. List the patient care benefits of deploying embedded clinical pharmacists in primary care clinics
- 4. Develop a plan for efficient and cost effective deployment of pharmacist within an organization



Success in specialty areas: Oncology

Kenry Ford

Implementation of oral chemotherapy management program in a large integrated health care system and its impact on patient safety Jessica J. Yoo, PharmD; Salin Nhean, PharmD; Prabha Dhanaphal Vogel, PharmD; Igor I, Rybkin, MD, PhD; Diana Kostoff, PharmD

0.59

0.83

0.93

0.45

0.54

0.37

0.57

1.00

0.08

0.01

0 32

0.01

■Pre-

Post-

p = 0.03

< 0.001

0.008

0.002

0.003

0.13

3 %

3 %

5 %

3 %

2%

OCMP

OCMP

Abstract # 279



RESULTS (cont.)

OCMP improved clinical outcomes by reducing ED visits and \geq

nospitaliza	uono uue i	o onomothera	py maacea	to Alonido	
			Pre-OCMP (N = 175)	Post-OCMP (N = 175)	
Total number of ED	visits		108	86	0.23
ED visits due t	o drug-related	toxicity	52	32	0.07
Total number of hos	spitalizations		79	59	0.18
Hospitalization	s due to drug	-related toxicity	36	15	0.004
All-Grade Toxicity		cities Present in ED Visits		Toxicities Pre Hospitaliza	sent in tions
	Pre- OCMI	Post-	P	re- Post-	
Nausea (%)	30 (17	Signi	ficant	lv imn	rovor
	18 (10	Jigili	incant	iy iiiip	love
Diarrhea (%)	22 (13				
Hand-Foot Syndrome (%)	2 (1)	med	catio	n adhe	erence
	1 (1)	1 (1)	NS 1	(1) 1 (1)	NS
Other (%)	4 (2)	8 (5)	NS) 4 (2)	NS
Abbreviations: ED, e program	mergency dep	artment; NS, not sigr	ificant; OCMP, c	hemotherapy mar	nagement
		Figure 3. Adhe	erence Rates		
0.9 0.9 0.8 0.7 0.7	(0.	0 .937 92-0.96)	0.968 (0.95-0.99)		■Pre- OCMP ■Post- OCMP
0.6 0.5		Adjusted MF	'R*	*MPR = medicatio	p = 0.03
CONCLUSIONS					

> OCMP implementation improved safety of capecitabine and reduced ED visits and hospitalizations due to drug-related adverse effects of capecitabine

 \geq Adherence rate to prescribed oral chemotherapy was significantly higher in OCMP patients

Poster prepared for 2018 ASCO Quality Care Symposium, Phoenix, AZ

Please address all correspondence concerning this poster to Diana Kostoff, PharmD, BCPS, BCOP at dkostof1@hfns.org

Journal of Clinical Oncology 36, no. 30 suppl (October 20 2018) 279-279.

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TS

Success in specialty areas: Pulmonary

Improved outcomes in COPD

- 61% of patient inhaler devices switched based on pharmacist objective assessment
- Rescue inhaler use decreased from 22 times per week to 10 times per week (p < 0.01)
- Patient assessment scores significantly improved in 4 weeks
- Statistically significant improvements in medication adherence
- Decrease in ED visits/hospitalizations over 12 weeks

Reduced out-of-pocket costs for patients

MEDICATIONS



Pilot study of 44 patients with COPD who had clinic visits with a pharmacist



- Proven success in specialty clinics within HFHS
- Growing chronic disease burden in primary care
- Medication-sensitive metrics important in primary care
 HgbA1c control, Blood pressure control, statin use
- Emergency department utilization and hospitalization due to sub-optimal chronic disease control
- Advanced data analytic capabilities
 - Proactive instead of reactive



The pharmacists' skillset is complementary to the clinic team

- Identify medication non-adherence
- Resolve barriers to medication adherence
- Design and redesign medication regimens customized to patient characteristics and needs
- Medication focused patient education
- Assist with the resolution of medication access issues



DATA TO DEFINE THE PROBLEM

Background



- Multiple interventions have been put in place to impact A1c control over many years.
- Henry Ford Medical Group overall improved.
- Interventions were very impactful at some sites.
- Several sites did not improve significantly
 - Control rates stayed low and flat.
- Needed to find a more targeted approach for these sites.

Interventions in Place



- Robust Diabetes Care Center Services
- Diabetes in Active Control with automatic referral for patients with A1c>9
- Standing orders for "no missed opportunities"
- Standard Diabetes Treatment Algorithm
- POC testing in some clinics (targeted)
- Dashboard with un-blinded results
- Quality incentive

Diabetes Control Improvement: Not Good Enough!



All HFMG Primary Care Clinics



Data Analytics: Medication Opportunities







Primary Care – Pharmacy Collaboration Pilot

November 2016 – August 2017

- Pharmacist embedded in two primary care clinics
- Clinic selection based on:
 - 2016 improvement data (flat and low performance)
 - Medication optimization opportunity data
 - Clinic leadership
- Pharmacist-patient encounters were tracked
- Overall clinic diabetes control was used to assess impact



10.2 ± 2.0 mg/dL → 8.4± 1.7 mg/dL

Average A1C pre/post pharmacist involvement

📕 1.25 ± 1.99 mg/dL

Average A1C reduction 3 mos post pharmacist involvement

39.11%

Patients w/ A1C <8.0 mg/dL at 3 mos post pharmacist involvement

Patient-level A1C Improvement Analysis (n = 320 patients evaluated, 307 patients with A1C > 8.0 mg/dL)

November 2016 – August 2017



OUTCOMES OF INITIATIVE





OUTCOMES OF INITIATIVE



December 2015 DM/HTN Metrics Rankings #August 2017 DM/HTN Metrics Rankings By Site

DM	T			-i		
A1c < 8			DM			
Panking			A1c<8	_		
Kanking	Maria	76	Ranking			
1	NOVI	76	1	Novi	8	<u>你们</u>
2	Farm	71	2	Hamtramck	7	<u>77个</u>
3	LKS	71↓	3	Farmington	7	76↓
4	Colum. C	69	4	Lakeside	7	<u>/6个</u>
5	SH	69↓	5	Harbortown	7	4个
6	Hamtr	68个	6	SterlingHts		73
7	Troy	68个	7	Commerce		/3
8	Sfield	67	8	Taylor	7	·2个
9	Taylor	67	9	Southfield	7	· <u>2</u> 个
10	Whaven	67↓	10	Columbus	-	12
11	Comm	66↓	11	E. Jefferson	7	<u>77</u>
12	Plymouth	66个	12	Troy		/0
13	Warren	65↓	13	K-15	6	<u>9</u> 个
14	FRL	64	14	Fairlane	6	081)
15	Pierson	64	15	Royal Oak	6	<u></u>
16	Livonia	63.	16	Plymouth		68
17	Canton	61	1/	Warron	-	00
18	RO	61	10	Woodbayer		67
19	EL	61.4	20	Livenia		65
20	K15	60.4	20	Canton		65
20	Harbort	59.1	22	DNW		65
21	DNIM	59	22	Milford		<u>()</u> ()小
- 22	DIVV	234	23	Wittord		
	90th	75th	50th	25th	<25th	
	percentile	percentile	percentile	percentile	percentile	
	HEDIS	HEDIS	HEDIS	HEDIS	HEDIS	



Primary Care – Pharmacy Collaboration Pilot

<u>November 2016 – August 2017</u>

- Success of pilot \rightarrow expansion
 - 2 additional pharmacists deployed
 - Clinics with a pharmacist increased from 2 6
 - 1 pharmacist ~ 400 uncontrolled patients with diabetes
 - Usually 2 clinics per pharmacist unless clinic is large

Additional Clinics Added



December 2015	D		August 2017 D	M/		
DM A1c < 8			DM			
Ranking			AIC NO	-		Ranking
1	Novi	76	1	Novi		80小
2	Farm	70	2	Hamtramck		201 77本
3	LKS	71.4	3	Farmington		76.1
4	Colum C	69	4	Lakeside		76个 76个
5	SH SH	69.1	5	Harbortown		74个
5	Hamtr	684	6	SterlingHts		73
7	Troy	68	7	Commerce		73
,	Sfield	67	8	Taylor		72个
0	Taylor	67	9	Southfield		72个
10	Whaven	67.1	10	Columbus		72
10	Comm	67	11	E. Jefferson		71个 ·
11	Comm	00V	12	Troy		70
12	Plymouth	66个	13	K-15		69个
13	Warren	654	14	Fairlane		68个
14	FRL	64	15	Royal Oak		68个
15	Pierson	64	16	Plymouth		68
16	Livonia	63↓	. 17	Pierson		68
17	Canton	61	18	Warren		68↓
18	RO	61	19	Woodhaver		67
19	EJ	61↓	20	Livonia		65
20	K15	60↓	21	Canton		65
21	Harbort	59↓	22	DNW		65
22	DNW	59↓	23	Milford		50个
	90th	75th	50th	25th	<25th	
	percentile	percentile	percentile	percentile	percentile	
	HEDIS	HEDIS	HEDIS	HEDIS	HEDIS	



EMBEDDED PHARMACISTS

What is an Embedded Pharmacist?



- Pharmacist physically located in clinic 2 5 days per week
 - Pharmacist develops a relationship with providers in clinic
 - Pharmacist collaborates with providers and other health care professionals frequently
- Pharmacist conducts face-to-face, virtual and telephone encounters
 - Pharmacist develops a relationship with patients



Greater Efficiency Through Analytics

Traditional Approach

- Wait for referrals from provider
 - Challenge: Slow to start
- Review all/many patients coming into clinic
 - Challenge: Many patient charts must be reviewed to find the patient that needs the pharmacist
 - **Challenge:** Difficult to establish relationship with the patient. Try to catch patient before or after provider or see patient with provider.





Our Approach

- Analytics tool
 - Patients with uncontrolled chronic disease identified
- Pharmacist fills schedule with appointments by engaging patients identified in tool
- Advantages:
 - Fill pharmacist schedule more quickly
 - More patient encounters = improved quality metrics

How Does the Pharmacist Establish a Relationship with Patients?

Analytic Tool

- Identification of patients with HgbA1C >8 mg/dL
 - Sort by: Clinic, Provider, A1C level
- Real time linkage with scheduled appointments

Goal: > 10 patient encounters per day

IS

Pulls the patient in Pharmacist works through the list of patients with HgbA1C > 8 mg/dL.

Engages the patient and schedules appointments with patients

~80%

Pharmacist reviews "real time" appointment list to identify patients coming in to see provider

Providers refer patients to pharmacist

~20%

Pharmacist Workflow



1. Appointment made

- Patient identified through data analytics tool
- OR
- Referral by PCP
 - Same day or future appointment

2. Face to face visit

A1c done or reviewed

- BP measured
- Medications reviewed
- Set goals with patient
- Medication changes implemented to achieve goals

3. Follow up set up

- Combination of face-to-face and telephone visits
- Continue to follow until clinical goals accomplished
- Medication changes and updates communicated with PCP

How Does the Pharmacist Maintain a Relationship with Providers and Patients?







Funding a pharmacist







IMPACT OF EXPANSION

Clinical Improvements



Aug 2017-Feb 2018						
238 patients evaluated						
Average A1c pre/post pharmacist involvement: 10.3% → 8.4%	Average A1c reduction 4 months post pharmacist involvement: 1.96 +/- 0.17%	Patients with A1c <8.0% at 4 months post pharmacist involvement: 52.1%				

CONFIRMS PILOT DATA!

Clinic – Level Data

90th percentile

HEDIS



		August 2017 HFMG DM Metrics Rankings By Site			April 2019 HFMG DM Metrics Rankings By Site			
	_					DM		
		DM				A1c < 8		
		A1c < 8				Ranking		
		Ranking				1	Farmington	78↓
		1	Novi	8	80个	2	Hamtramck	77
		2	Hamtramck		77个	3	Novi	75个
		3	Farmington		76↓	4	Commerce	75个
		4	Lakeside	7	76个	- 5	Sterling Hts	73个
		5	Harbortown		74个	6	Lakeside	72
		6	Sterling Hts		73	7	Warren	71个
		7	Commerce		73		Woodbaven	71
		8	Taylor		72个	9	Harbortown	71
		9	Southfield		72个	10	F lofforson	71
		10	Columbus		72	10	Livonia	70
		11	E. Jefferson	-	/1个	12	Dhymouth	70
		12	Troy		70	12	Taular	70
		13	K-15	6	59个	13	Тауюг	70
		14	Fairlane	6	58个	14	Troy	691
		15	Royal Oak	6	58个	15	Columbus	697 697
		16	Plymouth		68	16	DNW	697
		17	Pierson		68	17	Southfield	68个
		18	Warren	6	584	18	AIM (K15)	68个
		19	Woodhaven		67	19	Canton	66
		20	Livonia		65	20	Royal Oak	66
		21	Canton		65	21	Pierson	65个
l l		22	DNW		65	22	Milford	65
		23	Milford		50个	23	Ford Road	65
C+b	50th porc	ontilo 2	-1	5+b	1	24	Waterford	63个
501	Jun perc	entile 2	<2	Jul				
ercentile	HEDIS	p	ercentile pe	rcentile				
EDIS		H	EDIS HE	DIS				

OUTCOMES OF INITIATIVE





Therapy Changes



	New	Modified	Discontinued
Aspirin	18	1	0
Statin	29	1	7
ACEI/ARB	6	3	1
Insulin	81	442	23
Non-insulin injectable	42	25	4
Oral anti-diabetic	80	92	60
Total	256	564	95

August 2017 – February 2018; n = 238 patients

Increased DM Related Referrals





August 2017 – February 2018; n = 238 patients

Increased Patient Encounters



- Reviewed patient office visits 6 months prior to pharmacist visit vs 90 days after
- Before Pharmacist: 1.9 encounters per patient (all physician)
- After Pharmacist: 6.2 encounters per patient
 - 0.7 encounters per patient (physician)
 - 5.5 encounters per patient (pharmacist)
- Overall, physician productivity did not decline during this time

Increased Patient Encounters





August 2017 – February 2018; n = 238 patients

NOTE: Physician productivity did not decline over this time period

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Diabetes-related Hospital/ED Visits

Compared 90 days pre vs 90 days post first encounter with pharmacist

	Pre-Pharmacist	Post-Pharmacist	P-value
ED Visits	14	3	0.016
Hospitalizations	16	0	0.001
Total Days of Hospitalization	39	0	0.0001

August 2017 – February 2018; n = 238 patients

Next Steps for HFMG



- Expand to 4 target chronic disease states
 - Diabetes (HgbA1C > 8)
 - Hypertension (BP > 140/90)
 - COPD (any)
 - Heart failure (any)
- Use analytic tool to increase complexity of patients
 - More than 1 chronic disease in the same patient

Analytic Approach to Expansion



Chronic Disease States



Target 600 – 800 uncontrolled patients/pharmacist

Conclusion



- Embedded pharmacists equipped with analytic tools utilizing a proactive approach
 - Improve chronic disease surrogate measures and outcomes
 - Provide physicians with a highly skilled partner in care
 - Lead to better results with lower physician work burden

Questions





September Webinar

- Date/Time: September 19, 2019 from 2-3pm Eastern
- **Topic**: Innovator Track Eye Care Cohort Results
- Presenters: AMGA





Questions



