Accountable Treatment and Outcome Organization (ATOO's)

Optum PXPXP for Life Sciences

Frederick Huie, MD, MBA September 27, 2017







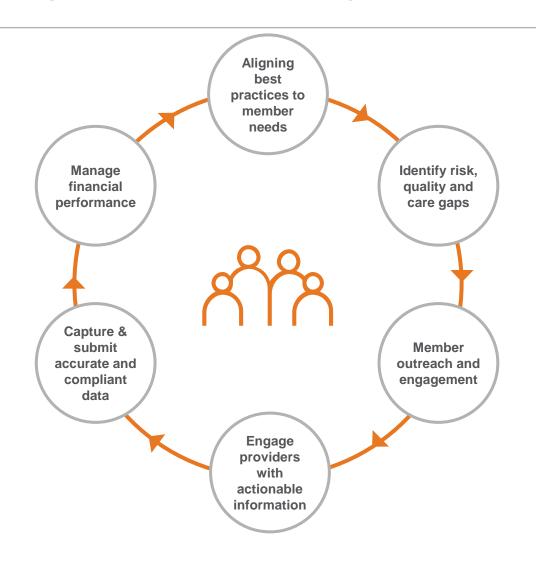
The search for static security — in the law and elsewhere — is misguided. The fact is security can only be achieved through constant change, adapting old ideas that have outlived their usefulness to current facts."

Sir William Osler



Population Health Management:

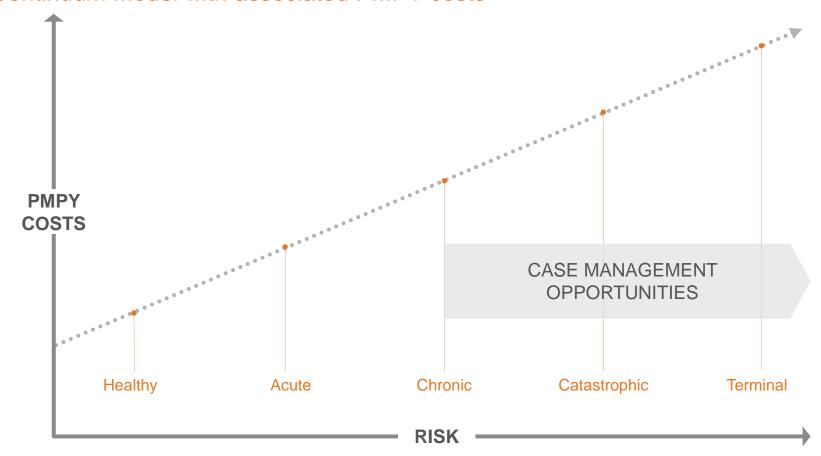
Systematic and integrated approach to improving member health





Optum approach

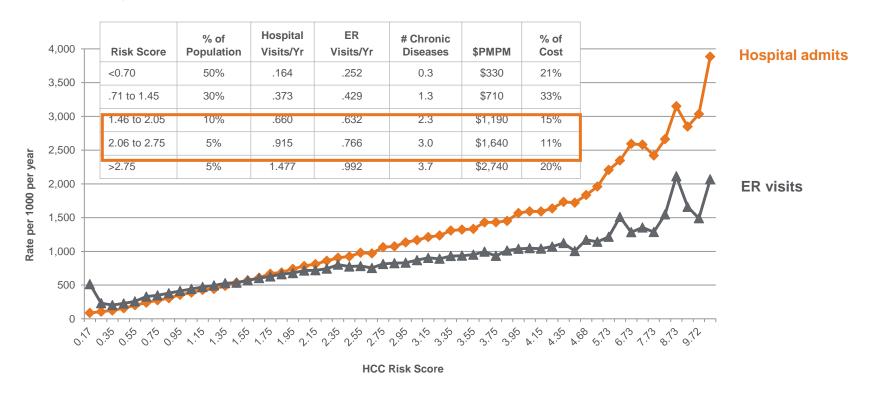
Mutually exclusive segmented approach to the HP Population using a Health Continuum Model with associated PMPY costs





Medicare eligible consumers as a population

- Consider the unique demographics of your plan population
- 10% of the population averages at least one hospital visit per year and accounts for 30% of the spend



Source: Nationwide Medicare 5% Sample



Optum approach – patient attributes used in modeling

- Conditions and comorbidities both physical and behavioral
- Relative risk for predicted future cost and use
 - Overall cost of care including risk model
 - Probability of an IP stay
- Gaps in care relative to evidence-based medicine
- Strength of member-provider relationship
- Prior use of acute care, including inpatient and ER



Health continuum categories

Category	Criteria
1: Healthy	Low risk, without Chronic dx, gaps, ER/IP (last 12 mos).
2: Healthy: Acute (IP or ER)	Without Chronic dx, with 1+ ER/IP – e.g. NICU, High Risk Pregnancy, Fertility Treatment
3: No Chronics: Close Gaps/Reduce Risk	Without Chronic dx (all others), Some gaps or moderate risk
4a: Chronic Big 5: Stable	Diabetes, CHF, CAD, COPD/Asthma, moderate risk, limited gaps, without ER/IP
4b: Behavioral Health Only: Stable	BH, without other chronic conditions, moderate risk, limited gaps, without ER/IP
4c: Chronic Other: Stable	Chronic dx (excluding Big 5), moderate risk, limited gaps, without ER/IP
5a: Chronic Big 5: Interventional	Diabetes, CHF, CAD, COPD, Asthma, with higher risk or gaps or ER/IP
5b: BH Only: Interventional	BH dx only, with gaps or ER/IP or higher risk
5c: Chronic Other: Interventional	Chronic dx (excluding Big 5), with gaps or ER/IP or higher risk



Health continuum categories

Category	Criteria
6: Chronic High Risk	Significant risk: Cost risk >15 (seniors), >10 (adult/peds) OR probability risk >50% or PRG risk >10
7: Rare High Cost Condition	CF, MS, ALS, Gaucher's, Parkinson's, Myasthenia Gravis, RA, Lupus, Sickle Cell, Hemophilia, Dermatomyositis, Polymyositis, Scleroderma
8a: Catastrophic: Active Cancer	Cancer with active treatment (chemo, radiation, etc)
8b: Catastrophic: Transplant	Solid organ and soft tissue
8c: Catastrophic: Dialysis	Hemo- or peritoneal dialysis
9: Dementia	Dementia
10: Terminal (EOL)	Hospice or metastatic cancer



Member segmentation detail (Big 5 excluded)

Health Continuum Category	Member Count	% of Members	Prior Cost Total (mills)	Prior Cost %	Prior Cost PMPY	Avg Risk, Costs	Avg Risk, Inpt
1: Healthy	742,278	56.4%	\$ 640.2	14.7%	\$ 862	0.47	1.7%
2: Acute (IP or ER)	29,510	2.2%	490.5	11.3%	16,621	1.15	2.9%
3: No Chronics - Gaps/Reduce Risk	183,779	14.0%	404.9	9.3%	2,203	1.15	2.9%
4b: BH Only: Stable	67,131	5.1%	176.2	4.0%	2,624	1.17	3.0%
4c: Chronic Other: Stable	111,297	8.5%	313.8	7.2%	2,820	1.31	3.5%
5b: BH Only: Interventional	40,211	3.1%	336.9	7.7%	8,379	2.69	7.2%
5c: Chronic Other: Interventional	116,956	8.9%	1,114.4	25.6%	9,528	2.96	7.6%
6: Chronic High Risk	7,618	0.6%	281.3	6.5%	36,928	8.47	23.4%
7: Rare High Cost Condition	5,953	0.5%	150.7	3.5%	25,317	5.58	10.5%
8a: Catastrophic: Dialysis	214	0.0%	27.1	0.6%	126,654	28.53	34.0%
8b: Catastrophic: Active Cancer	6969	0.6%	322.1	7.4%	46,224	9.71	12.7%
8c: Catastrophic: Transplant	830	0.1%	41.0	0.9%	49,449	9.52	17.2%
9: Dementia	1797	0.1%	22.6	0.5%	12,584	5.23	16.0%
10: Terminal (EOL)	981	0.1%	36.3	0.8%	36,993	14.26	20.3%
Grand Total	1,315,524	100.0%	\$4,358.0	100.0%	\$3,313	1.12	3.1%

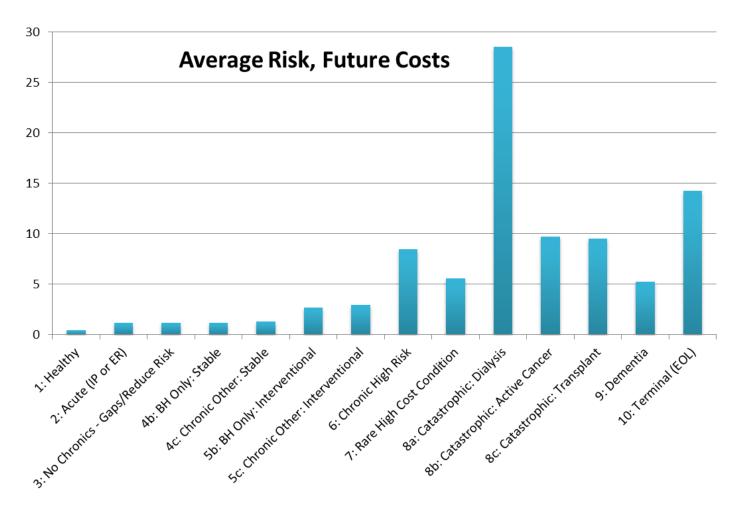


Member segmentation detail (Big 5 excluded)





Member segmentation detail (Big 5 excluded)





Summary of recommendations for impactable members

(mutually exclusive hierarchy)

	Total Member Count	Total Prior Costs (mills)	PMPY
a: <u>Pre-dialysis</u>	504	\$ 7.4	\$14,629
b: <u>Drug safety</u>	6,167	53.4	8,656
c: <u>High ER Use (5+ ER visits)</u>	1,327	64.8	48,794
d: Moderate ER and Limited/No Provider Relationship	1,269	11.2	8,826
e: <u>High Medication Adherence Issues (3+ gaps)</u>	890	7.8	8,798
f: Moderate Med Adherence Issues and Limited/No Provider Relationship	633	1.0	1,622
g: Multiple Chronic Conditions, including BH	116	3.3	28,588
h: Emerging Cost: Future Cost \$25,000+ higher than Prior Cost	640	11.4	17,849
i. New Transplants in last 12 mos	66	21.9	36,714
j. Terminal (EOL) – Metastatic Cancer and advanced age	279	7.4	26,562
Total	11,891	\$ 189.6	\$15,945



b: Drug safety

Rationale/Potential Impact: Represent significant interactions that should be addressed by pharmacist (PBM does not have lab data and majority of the triggers)

	Member Count	Total Prior Cost	Prior PMPY
2: Acute (IP or ER)	73	\$1,514,091	\$20,741
3: No Chronics - Close Gaps/Reduce Risk	468	1,533,844	3,277
5b: BH Only: Interventional	1,642	9,161,533	5,579
5c: Chronic Other: Interventional	3,519	29,819,939	8,474
6: Chronic High Risk	310	8,263,100	26,655
7: Rare High Cost Condition	155	3,088,449	19,925
Grand Total	6,167	\$53,380,956	\$8,656

Findings:

- Widespread distribution across groups with lower risk members having higher propensity of contraindicated med regiments likely due to less coordination of care
- Majority of the triggers are High Risk Meds in the Elderly that are associated with longer half lives and high potential for falls.
- Other triggers are primarily associated with lab values that might not be realized by all treating providers



b: Drug safety – interventions and prioritization

	Member Count	Total Prior Cost	Prior PMPY
2: Acute (IP or ER)	73	\$1,514,091	\$20,741
3: No Chronics - Close Gaps/Reduce Risk	468	1,533,844	3,277
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Grand Total	6,167	\$53,380,956	\$8,656

Interventions:

- For High Risk meds in Elderly, consider integrating CM with Formulary management (prior auth/higher tiering/non-formulary); in some circumstances these are essential in care
- Determine # of prescribing providers for each patient
 - If multiple, coordinate drug regimen across providers may not be aware of lab results
- Discuss interactions with primary prescriber(s)
 - Determine if substitutions or discontinuation is plausible
- Monitor lab tests Insure labs are being done? Results still within normal range?

Prioritization:

Chronic High Risk group and then IP stay probability



e: High medication adherence issues (3+ gaps)

Rationale/Potential Impact:

• Without consistently following a prescribed drug regimen, member's condition is likely to exacerbate causing avoidable utilization including IP or ER visits.

	Member Count	Total Prior Cost	Prior PMPY
2: Acute (IP or ER)			
3: No Chronics - Close Gaps/Reduce Risk	4	\$15,087	\$3,772
5b: BH Only: Interventional	114	\$705,745	\$6,191
5c: Chronic Other: Interventional	715	\$5,265,879	\$7,365
6: Chronic High Risk	48	\$1,547,340	\$32,236
7: Rare High Cost Condition	9	\$296,419	\$32,935
Grand Total	890	\$7,830,469	\$8,798

Findings:

Heavy concentration in members in the moderate risk group (5c: Chronic Other Interventional).
 This is a good group to prioritize as a proper drug regimen may keep them from moving into the Chronic High Risk Group in future

Walmart and Target now report most \$4 generics to PBMs after accepting national pricing of these generics



e: High medication adherence issues: interventions and priorities

	Member Count	Total Prior Cost	Prior PMPY
3: No Chronics - Close Gaps/Reduce Risk	4	\$15,087	\$3,772
5b: BH Only: Interventional	114	\$705,745	\$6,191
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6: Chronic High Risk	48	\$1,547,340	\$32,236
7: Rare High Cost Condition	9	\$296,419	\$32,935
Grand Total	890	\$7,830,469	\$8,798

Interventions:

- Determine if member has a strong or optimal relationship with a provider
 - If so, discuss issue with primary provider (doctor likely unaware lack of refills
 - Consider mobile or web application drug refill reminders
- Make outreach call to member to determine why they are not filling drugs
 - Financial Tiered drugs; non formulary, \$4 generics, switch to lower cost drug
 - Conduct analysis on current formularies and medication adherence patterns
 - Side effects talk to provider about switching to another drug; substitutions
 - Identify members w co-morbid BH concerns as adherence sign. decreases
 - Engage member with medical social worker especially for members with support and financial issues
- Prioritization: Chronic Interventional, High Risk, Rare group and then IP stay probability



f: Moderate med adherence issues and limited or no provider relationship

Rationale/Potential Impact:

Without consistently following a prescribed drug regimen, member's condition is likely to
exacerbate causing unneeded utilization including IP or ER visits. Provider reinforcement is often
necessary to make member aware of importance of consistently taking prescribed drugs.

	Member Count	Total Prior Cost	Prior PMPY
2: Acute (IP or ER)	2	\$34,479	\$17,239
3: No Chronics - Close Gaps/Reduce Risk	117	181,184	1,549
5b: BH Only: Interventional	135	348,123	2,579
5c: Chronic Other: Interventional	377	431,297	1,144
6: Chronic High Risk	1	2,804	2,804
7: Rare High Cost Condition	1	28,591	28,591
Grand Total	633	\$1,026,478	\$1,622

Findings:

Heavy concentration in members in the moderate risk group (5c: Chronic Other Interventional).
 Again, this is a good group to prioritize as a proper drug regimen may keep them from moving into the Chronic High Risk Group in future



f: Moderate med adherence issues limited/no provider: interventions and prioritization

	Member Count	Total Prior Cost	Prior PMPY
2: Acute (IP or ER)	2	\$34,479	\$17,239
3: No Chronics - Close Gaps/Reduce Risk	117	181,184	1,549
5b: BH Only: Interventional	135	348,123	2,579
5c: Chronic Other: Interventional	377	431,297	1,144
6: Chronic High Risk	1	2,804	2,804
7: Rare High Cost Condition	1	28,591	28,591
Grand Total	633	\$1,026,478	\$1,622

Interventions:

- Connect member with a PCP (using high performing list from II) to establish a member-provider relationship
- Consider mobile or web application drug refill reminders

Prioritization:

Chronic Interventional group and then IP stay probability



Rare diseases

Rationale/Potential Impact:

Rare diseases have high costs usually from pharmacy

	Member Count	Total Prior Cost	Prior PMPY
Rare High Costs	5,953	\$150,710,171	\$25,317
Multiple Sclerosis	2191		
Parkinson's Disease	1340		
Lupus - Systemic Lupus Erythematosus	822		
Scleroderma	518		
Myasthenia Gravis	122		
Polymyositis	101		
Cystic Fibrosis	98		
Arthropathy - Adult Rheumatoid	89		
Dermatomyositis	85		
Von Willebrand's Disease	70		
ALS	65		
Gaucher's Disease	51		

Findings:

High cost disease state driven by pharmacy

Interventions:

Consider pharmacist review of medication and contracting especially for Gaucher's Disease;
 Multiple Sclerosis; Cystic Fibrosis identify advanced Parkinson's;



Members with physical and behavioral health conditions

Member Count	Big 5	No Big 5	Total
4a: Chronic Big 5: Stable	2,168		2,168
4c: Chronic Other: Stable		10,885	10,885
5a: Chronic Big 5: Interventional	24,074		24,074
5c: Chronic Other: Interventional		26,589	26,589
6: Chronic High Risk	6,288	3,090	9,378
7: Rare High Cost Condition	954	2,120	3,074
8a: Catastrophic: Dialysis	157	58	215
8b: Catastrophic: Active Cancer	843	1,529	2,372
8c: Catastrophic: Transplant	210	199	409
9: Dementia	871	1,070	1,941
10: EOL	235	212	447
Grand Total	35,800	45,752	81,552

Top BH Conditions	Member Count
Mood Disorder, Bipolar	10,224
Schizophrenia	10,100
Alcoholism and Alcohol Abuse	5,888
Drug Use and Abuse	4,702
Post Traumatic Stress Disorder	4,393
Psychotic States	2,153



Optum Spotlight for Life Sciences

Analytics and
Reporting Example:
HCC 096 – Specified Heart
Arrhythmias



Optum Spotlight for Life Sciences:

Find what you need fast

Spotlight for Life Sciences: Powered by Optum's industry leading data & analytics

Optum Spotlight is a configurable, extensile end-user reporting tool sitting on top of industry leading data sets and analytics, giving users the ability to drill in to populations and find what matters most



Robust Data Acquisition

- ✓ Expert data translation team
- ✓ Largest MA dataset
- ✓ Claims, Lab, Rx, geo, member



Optum Advanced Gap-Level Analytics

- ✓ Run at the Care-Gap & diagnosis level
- ✓ Industry scale suspecting, targeting
- ✓ Iterative and extensible based on use



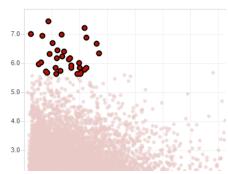
Optum Spotlight for Life Sciences

- ✓ Rapid configuration & customization
- ✓ Cloud-based, PHI-secure, mobile use
- ✓ Data visualization, exportable output

Search by Geo, e.g county



Find grouping, e.g Diagnosis



Reveal detail, e.g Diagnosis & Rx

Line Susp Grp: Prev Coded:

Suspect Detail:

Rx-WARFARIN SODIUM ORAL (COUMADIN) Related DX-415.19 Related DX

Other Suspect: LASTNAME, FIRSTNAME Mbr Name:

REDAL, LEIF A

BOULDER COMMUNITY HEALTH Group Name:

HCC:

HCC Description: Vascular Disease

Mem ID: 440670 Denver County:

Mbr Susp Grp: 01/01/1976 DOB:

0.282 Factor:



Reporting example:

HCC 096 – specified heart arrhythmias

Find the Outlier Conditions: What conditions are prevalent and potentially under-treated? To locate performance gaps, first isolate specific conditions and disease prevalence by state and look to variances in the data, guided by Optum's benchmarks, that could indicate a performance gap

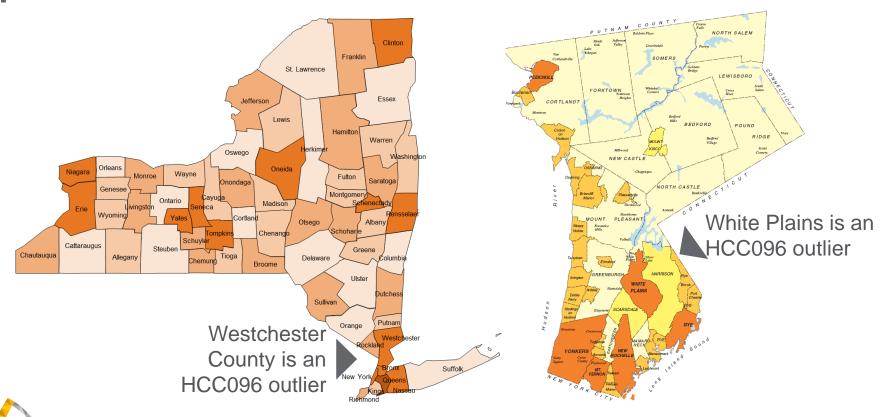
Drov	alongo Comparinon			Population 9	Selected	Relative Pr	evalence	Variance to Natio	onal Rate	
riev	alence Comparison			44	,977			-2.00%		2.009
нсс	HCC Description	Members	HCC Prevalence	Optum National Rate	Variance to National Rate	20%			0	18
107	Vascular Disease With Complications	5,399	1.13%	1.84%	-0.71%	15%				108
108	Vascular Disease	86,425	18.15%	16.59%	1.55%					
017	Diabetes With Acute Complications		0.19%	0.32%	-0.13%	nce Ra			111	
018	Diabetes With Chronic Complications	99,947	20.98%	15.90%	5.08%	HCC P revalence Rate		058 085		
019	Diabetes Without Complication	40,778	8.56%	11.62%	-3.06%	, H				
122	Prolif Diabetic Retinopathy & Vitreous								019	
021	Protein-Calorie Malnutrition	7,250	1.52%	1.74%	-0.22%	5%		040		
085	Congestive Heart Failure	49,220	10.33%	11.63%	-1.30%					
096	Specified Heart Arrhythmias	44,977	9.44%	12.68%	-3.23%		075			
111	COPD					0%				
134	Dialysis Status	394	0.08%	0.12%	-0.04%	0%	2% 4%	6% 8% 10% Optum National Rat		6% 18%
ICC	096 may be						l HC	2096 is 0	one of	
	r diagnosed						the I	argest o	utliers	



Reporting example:

HCC 096 – specified heart arrhythmias

Drill into Prevalence Regionally: Are there specific areas in the state driving the data outlier? Optum's data is at both the member and condition level as well as down to the geo-address level – that means it's quick and easy to find not only which members, but which providers may be driving outliers





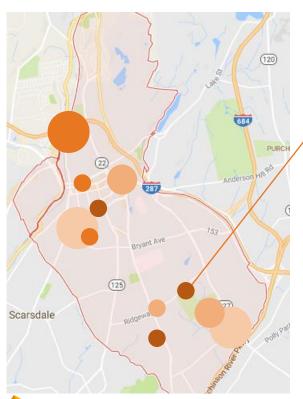
Reporting example:

HCC 096 – specified heart arrhythmias

Drill Down to Providers: Are there specific providers in the city driving the data outlier?

Optum Spotlight utilizes OpenStreetMaps to provide easy map navigation and up-to-date accuracy, allowing for heat-mapping across multiple dimensions, configurable as needed

Provider Density



Group Name	Provider Name	Members	Prev %	HCC
1rst Health PA	John Doe	26	18%	096
1rst Health PA	Jane Jolly	18	22%	096
1rst Health PA	Mary Zang	15	12%	096
Cadena Health	Frank Franz	14	16%	096

				Rx Density
Provider Name	Member Name	Rx	RAF	HCC
Frank Franz	Ed Leither	Eliquis ORAL	0.253	096
Frank Franz	Scott Christenson	Rivaroxaban ORAL	0.573	096
Frank Franz	Kent Rahne	-	0.731	096
Frank Franz	Ted Johnston	Coumadin ORAL	0.363	096

ED Admits

Rx	Provider Group	Provider	Members	ED Admits
Coumadin	Cadena Health	Frank Franz	5	2
Eliquis	Cadena Health	Frank Franz	8	4
Eliquis	Cadena Health	John Ellertson	2	1
Warfarin	1rst Health PA	Phil Venkman	7	1



Optum Provider Engagement

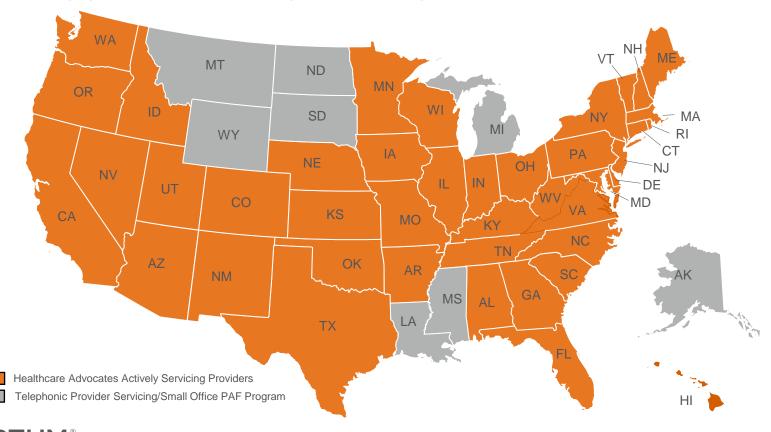
Field Team Example: HCC 096 – Specified Heart Arrhythmias



Engagement example:

HCC 096 – specified heart arrhythmias

Prospective Field Engagement: Optum utilizes a multi-modal In-Office Assessment Program Optum's Prospective Field Engagement team is over 750 staff of educators, coders, and market consultants engaged with 3000+ medical groups, servicing 600,000 MA members nationwide



Engagement example:

HCC 096 – specified heart arrhythmias

In-Office Assessments: Actionable patient information delivered how the provider prefers Optum's In-Office program is a multi-modal method of delivering actionable patient information directly to the provider, which is then able to reviewed in person by Optum's familiar field team

	Indicate if at-risk illness(es) were considered and confirm in	n progress no	ote(s).					
Chronic Illness(es) to Consider	Risk Factors or Co-morbid Conditions	Yes	No					
Chronic Kidney Disease	Family History Kidney Disease (V18.61)							
Peripheral Arterial Disease	History of Smoking (V15.82)							
Diabetic Neuropathy	Lower Extremity Ulcer (707.1)							
Chronic Obstructive Pulmonary Disease	Chronic Bronchitis (491)							
Major Depression	Depressive disorder, not elsewhere classified (311)							
Diabetes Mellitus	Chronic Pancreatitis (577.1)							
Protein Calorie Malnutrition	Cystic Fibrosis (277.0), BMI <20							
Depression	Screening using tool such as PHQ-90							
Cognitive Function	Screening using tool such as 6CIT©							
▶ Preventive Medicine Screening	Complete screening/referral(s). Detail in progress note an	nd return with	form.					
Screenings to Consider	th H > Ongoing Assessment & Evaluation Potential Diagnosis			on(s) persist. Detail in progress or Co-morbid Conditions	Last Reported		es 1	
Breast Cancer Screening	r Morbid Obesity	BMI >4	10				_	
breast cancer outcoming	Diabetes without Complication (250.0x and V58.67)	Family	Histor	y Kidney Disease (V18.61)	2009		j	
Colorectal Cancer Screening Indicate type of screening performed	Renal Failure (403.x1, 404.x2, 404.x3, 584.x, 585.x, 586, and 753.14)	GFR test value was 57.9			2009			
	Supply Indicating Diagnosis in Progress Note	Patient is taking BONIVA TAB 150 MG			2010]	
Glaucoma Screening	Vascular Disease w/Complications	Vascula	ar Dis	ease w/Complications	2010]	
Adult Body Mass Index (BMI)	► Managing Chronic Illness Indicate if sug	ggested actio	ns wer	e completed. Detail in progress	s note and re	eturn w	ith fo	om.
Cardiovascular Care – Cholesterol Screening Date of cardiac event xx/xx/xxxx	[Condition(s)	Sugge				Yes I		
Date of cardiac event xx/xx/xxxx	Chronic Obstructive Pulmonary Disease	Spirom	etry Te	est				
	Controlled Blood Pressure	Blood F	Pressu	re Evaluation			<u> </u>	
		Diabeti	c Eye					
	Diabetes Mellitus	Blood F LDL-C : HbA1c	Scree	ning				



Engagement example:

HCC 096 – specified heart arrhythmias

	Office Visits				ER Visits	Hospita	lizat	ion	S	
2 or more visits in past 24 months							ast 36 months			
Physician	Specialty	Visits	Visits Last Visit		Date	Admit	Dis	char	ge	
John Jones, MD	Annual Exam*	1	02/	25/2012	01/01/2012	08/01/2010	08/05/2010		10	
Jane Smith, MD	Endocrinology	3	05/	15/2012	07/04/2012	11/01/2010	11/0	8/20	10	
Margaret Elizabeth Murkowski-Doe, MD	Cardiology	2	07/	15/2013	09/07/2012	11/23/2010*		7/20		
Optum identified as date	of last annual exam					*Readmission	n w/in a	3U Q	ays	
					dition List					
			Place	of Service L	<u>eqend</u> Provider Office					
	Chronic	· ·	npatien	はぐへし	other Non-Chi	ronic				
Diagnosis Coded			Year	Dia	gnosis Coded			Yea	г	
HCC if applicable			11		HCC if applicable		12	11	10	
250.00 DB W/O COMP TYP		- Ø	(4)	374	.87 DERMATOCHALASIS			4	4	
019 Diabetes without Complication 250.02 DB W/O COMP TYPE II/UNS UNCNTRL				375.15 UNSPECIFIED TEAR FILM INSUFFICIENCY				4		
019 Diabetes witho			❷	401	401.1 ESSENTIAL HYPERTENSION, BENIGN				0	
272.4 OTHER&UNSPECIF				401	.9 UNSPECIFIED ESSENTIAL HY	PERTENSION			4	
281.9 UNSPECIFIED DEFI	CIENCY ANEMIA		(A)	558	.9 UNS NONINF GASTROENTER	IT&COLITIS			\Box	
285.9 UNSPECIFIED ANEN	MIA		Ď	562	.10 DIVERTICULOSIS OF COLON	l		4		
374.30 UNSPECIFIED PTO	SIS OF EYELID			569	.3 HEMORRHAGE OF RECTUM A	AND ANUS		4	\Box	
557.0 ACUTE VASCULAR	INSUFF INTESTINE		т.	578	.1 BLOOD IN STOOL				•	
107 Vascular Disea	ise w/Complications		•	578	.9 UNSPEC HEMORRHAGE GITT	RACT			a	
				599	.0 UTI SITE NOT SLECIFIED			4		
				787	.01 NAUSEA WITH VOMITING		4	(Œ	
				788	.41 URINARY FREQUENCY			0		
				789	.00 ABDOMINAL PAIN, UNSPECI	FIED SITE				
				789	.09 ABDOMINAL PAIN OTHER SF	ECIFIED SITE		0	ē	
				847	.0 NECK SPRAIN AND STRAIN				Œ	
				V43	3.1 LENS REPLACED BY OTHER I	MEANS		Φ		
					31 ROUTINE GYNECOLOGICAL					



Example: Januvia and Sinemet

Delivering Results: Bringing together the data, the field staff, the incentive By combining stratification analytics, targeting, engagement programs, and our field team Optum can find the most efficient, effective solution for each member and provider based on script

Suspect Detail	HCC Description	Factor
	COPD	0.288
Related CPT-43760	Artificial Openings For Feeding Or Elimination	0.473
Rx-SITAGLIPTIN PHOSPHATE ORAL (JANUVIA)	Diabetes With Chronic Complications	0.417
	Intestinal Obstruction/Perforation	0.317
Rx-CARBIDOPA + LEVODOPA (SINEMET)	Parkinson's And Huntington's Diseases	0.137
	Vascular Disease	0.089



Optum Spotlight for Life Sciences

- ✓ Member has HCC018, and an A1c value > 8
- ✓ Member is taking Januvia and Sinemet
- √ Provider's rate of high A1c > 30%
- ✓ Optum Field Team reports provider is engaged

○ Ongoing Assessment & Evaluation

If applicable, indicate if condition(s) persist. Detail in progress

Optum Field teams have engaged the provider

Potential Diagnosis	Risk Factors or Co-morbid Conditions
Morbid Obesity (278.01)	Morbid Obesity (278.01)
Diabetes with Chronic Complications	HbA1c value was 8.1
Renal Failure (403.x1, 404.x2, 404.x3, 584.x, 585.x, 586, & 753.14)	GFR test value was 57.9
Congestive Heart Failure (428.0)	Patient is ACE/ARBS, Diuretic, Alpha-beta blockers



With **structured provider incentives** Optum's field team can train and coach the provider to ensure this member has a **therapeutic-level treatment** program



Practice transformation

Moving from

Accountable Care Organization (ACO)

To

Accountable Treatment and Outcome Organization (ATOOs)



Payer perspective on treatment and outcome organizations ATOOs

- ATOOs that are incorporating Outcomes are becoming more common in the US as manufacturers and payers move towards value and costs
- Medicare Innovation centers are looking for ways to address cost in a market based solution
- Cost transparency and operation challenges have been barriers but there are growing resources that can now address these challenges



ATOOs and conditions being pursued

Payers and Providers are pursuing ATOO's

- Majority of Payers have ATOOs and more emphasis is on treatment and outcomes
- VBCs and treatment and outcomes is viewed positively by Payers
- Payers that have ATOOs in place plan on expanding
 - Conditions groups that are most common treatment and outcomes
 - Endocrine—Diabetes
 - Infectious Disease- Hepatitis C, HIV
 - Cardiovascular CHF, A-Fib
 - Respiratory- COPD/ Asthma
 - Oncology
 - Orthopedics
 - Conditions requiring Biologics



Lay of the land

- Current atmosphere is optimal for Payer and manufacturer engagement
- Payers are positive on treatment/outcomes and willing to expand
- Challenges involve upside and downside risks for Pharma
- Payers may see value with Pharma taking on risk
- CMS Innovation may pave ways for future models



Advantages and disadvantages for treatment/outcome contracting



- Outcome improvement
- Cost savings
- Products work as reported EBM
- Real-time analytics
- Improvement in management



- Cost savings not demonstrated
- Complicated
- IT issues and reporting

- Administrative burden high
- Cost benefit analysis
- Difficult to measure outcomes



Health plan and manufacture wary of taking on risk



Appendix



Optum's comprehensive prospective program

 Leverage Retrospective Analytics Start with PAF and quickly move to **Optum conducts HQPAF** prospective analyses of Analytics member populations to identify member care gaps HQPAF-Actionable integrated gap information at point of care and develops direct Healthcare Advocates engage provider and member providers in field, deliver HQPAFs. engagement strategies to provide training & feedback · Facilitate targeted gap closure close these care gaps. **OPTUM** Home Assessment - target high risk, least engaged members Reporting Direct Member Outreach and Member physician appt. scheduling and Engagement Attribution Medication Adherence Coordinated member touch Coding Weekly, monthly, end of project reporting Coding actual activity to document appropriate and QA HCCs and Star/HEDIS gap closures Financial RAF, ROI. Attribution valuation, Deliver program compliant files for submission Quality gap closure & projections



Managed analytics as a service:

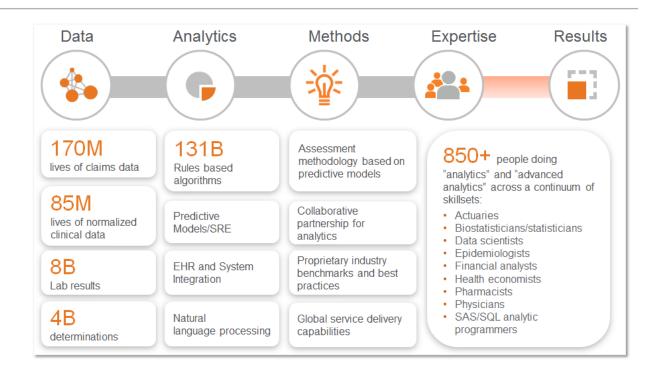
Actionable insights

The Challenge:

- Creating actionable population health analytics is challenging with multiple carriers, vendors, and programs
- Experience has shown that standalone or fragmented analytic technologies do not drive full value to network performance and clinical programs for employers

Managed Analytics:

 Optum's service leverages a deep bench of experts, an extensive library of algorithms, rules, and experience in execution to create a full plan and population view across core value levers such as: Network Performance and Clinical Program Effectiveness



This model provides the foundation for analytics-derived, actionable insights for high-performing providers & risk-bearing entities

