Health Endeavors

Risk Score, HCC Coding, Benchmarks and Spend







What is Patient's Risk Score?

Risk score is a measure of how sick and costly that patient is now or anticipated to be in the future.

A patient's risk score is calculated using the patient's demographics and diagnoses.

Every consumer has a risk score and associated financial benchmark.



Health Score 0.624 Excellent Health Spend **Below Expected**

Patient's Risk Score

Every patient has a risk score.

Every patient has a financial benchmark calculated using their risk score

Lower the score the better health of the patient. (Healthiest to Sickest)

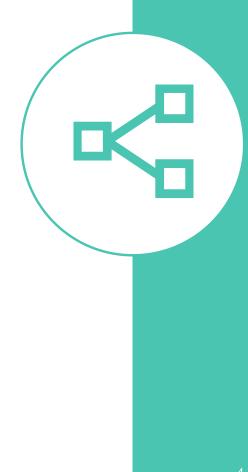
Risk score is based on patient's demographics and diagnoses.



Other Names for Risk Score?

- HCC Score
 - Hierarchical Condition Categories
- RAF
 - Risk Adjustment Factor

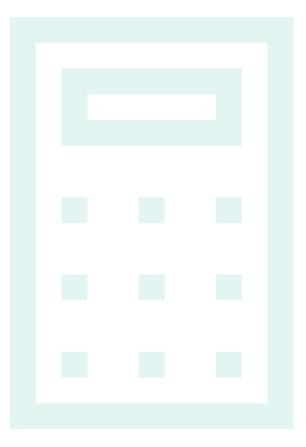
Calculate using CMS Risk Adjustment Model





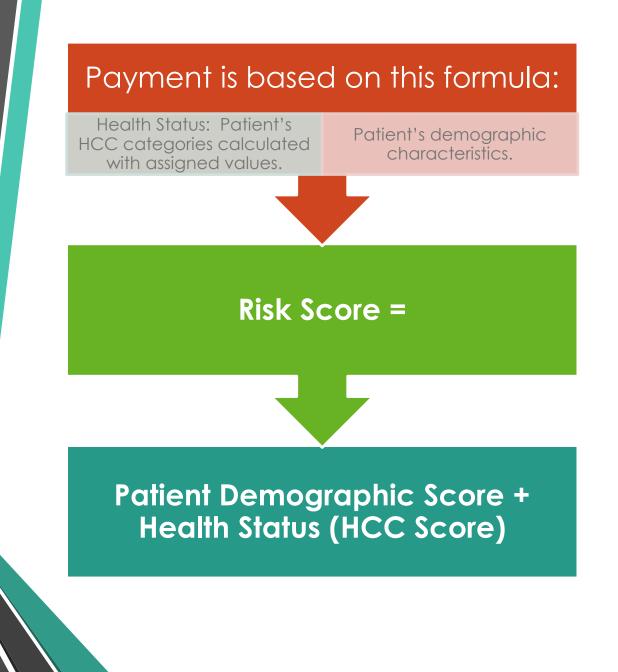


HOW CALCULATE HCC RISK SCORE





The Basics



How calculate health status The CMS Risk Adjustment Model measures the disease burden that includes around 70 HCC categories

ICD10 diagnosis codes are assigned to HCC Categories.

ICD10

https://en.wikipedia.org/wiki/ICD-10

ICD-10 is the 10th revision of the International Statistical Classification of Diseases and Related Health Problems (ICD), a medical classification list by the World Health Organization (WHO).

It contains codes for diseases, signs and symptoms, abnormal findings, complaints, social circumstances, and external causes of injury or diseases.

Each HCC Category has an assigned value

More than 1 HCC Category

A patient can have more than one HCC category assigned to them as some categories override other categories and there is a hierarchy of categories.

Example: HCC X comprised of 10 ICD 10 codes is priority over HCC Y comprised of 8 ICD 10 codes.



Some HCC Categories have much higher value A few top HCC categories include:

- Major depressive and bipolar disorders
- Asthma and pulmonary disease
- Diabetes
- Specified heart arrhythmias
- Congestive Heart Failure
- Breast and prostate cancer
- Rheumatoid arthritis
- Colorectal, breast, kidney



Demographic factors

Raw Risk Score = Demographic Score + Health Status

- The demographic variables include:
 - Age as of February 1st of the payment year.
 - Sex of the beneficiary.
 - Disabled Status results in the inclusion of additional factors in the risk scores of community residents who are disabled beneficiaries under 65 years old.
 - Original Reason for Entitlement results in the inclusion of a factor in the risk score for beneficiaries 65 years of age or older who were originally entitled to Medicare due to disability; the factor differs by the age and sex of the beneficiary.
 - **Medicaid Eligibility** results in the inclusion of an additional factor in the risk score.



Calculation

ICD10 Diagnosis Codes assigned to HCC Category Each HCC Category has an assigned value

Add up the values for the HCC Categories (Health Status) component Add Health Status component to the demographic component value



What is in your control?

Since the provider team cannot influence the age and gender of the patient, the real impact that a provider team can have on risk score is the accurate documentation of the patient's Health Status by billing the proper ICD10 codes. This is NOT patient data. This is for demonstration purposes only.

Current Diagnosis List (ICD-10)

938 Abnormal findings on diagnostic imaging of body ructures

013 Acute atopic conjunctivitis, bilateral

513 Age-related nuclear cataract, bilateral

9 Anemia, unspecified

Atrioventricular block, first degree

0A Breakdown if surgically created AV fistula, init

Int Medication List

TATIN CALCIUM

rochloride		
14	RIDE	





WHY ACCURATE RISK SCORE MATTERS?



Risk Score NOT Accurate

The Problem:

Then the financial benchmark is NOT accurate. Health Score 0.624 Excellent Health Spend I vertice the second se





WRONG Risk Score Financial Benchmark \$10,000 PPPY



Actual Spend \$13,000 PPPY



RIGHT Risk Score

Actual Spend

\$13,000 PPPY

Financial Benchmark \$15,000 PPPY

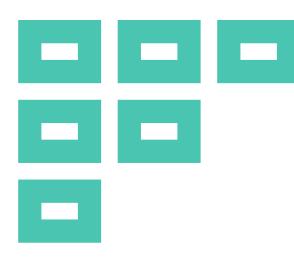


Financial Benchmark

- Financial Benchmark is calculated using Risk Score.
- Financial Benchmark for...
 - Payers
 - ACO, CIN (Organization Level)
 - Facility or TIN (Taxpayer Identification Number)
 - Individual Provider
 - Patient/Consumer
 - ...any value-based program concerned with spend







IMPACT OF HCC FAILURE TO CODE DIAGNOSIS

Impact of HCC Coding to HCC Benchmark – Example (Decreased Score)

Most commonly, HCC categories are not captured, resulting in decreases to the HCC score:

Risk Adjustment Factor	RAF Score	Expected Annual Expenditure
Base HCC Score (Male/76/DM/Morbid		
Obesity/CHF/Amputation)	1.973	\$17,856
NOT CODED- HCC 189 (Amputation Status, Lower		
Limb)	0.588	\$5,321
NOT CODED-HCC 22 (Morbid Obesity)	0.273	\$2,471
HCC Benchmark (With Removed HCCs)	1.112	\$10,064

Based on 2017 Coefficients for a Community Non-Dual Aged Beneficiary



Impact of HCC Coding to HCC Benchmark – Example (Increased Score)

Ensuring HCC codes are captured, results in adjustment to expected levels of spend per patient:

Risk Adjustment Factor	RAF Score	Expected Annual Expenditure
Base HCC Score (Male/76/DM/Morbid Obesity)	1.062	\$9,611
CODED HCC 86 (Acute myocardial Infarction)	0.233	\$2,109
CODED HCC 111 (Chronic Obstructive Pulmonary		
Disease)	0.328	\$2,968
CODED HCC 137 (Chronic Kidney Disease, Severe		
Stage 4)	0.237	\$2,145
HCC Benchmark (With Added HCCs)	1.86	\$16,833

Based on 2017 Coefficients for a Community Non-Dual Aged Beneficiary



RISK SCORE AND BENCHMARK ANALYTICS





CALCULATE FINANCIAL BENCHMARK

ALL LEVELS -ORGANIZATION -FACILITY -PROVIDER -PATIENT

#No. Costly Patients	#No. CPC+ Patients	2018 AVG HCC 🕤 Score	2018 HCC 🐨 Benchmark	2018 YTD AVG Per (💎 Patient Spend	2018 YTD AVG Per Patient Spend vs 2018 HCC Benchmark
30	0	1.251	\$11,323.09	\$7,642.85	67.50 %
78	0	1.352	\$12,231.21	\$12,270.92	100.32 %

Executive Dash

TestPatient01AEB, Willie▼



TestPatient01AEB, Willie

MRN	HCC 2015	HCC 2016	HCC 2017	HCC 2018
	.432	1.265	.699	2.162

Patient Master Dash

Beyond the basics

Potentially Costly

Patient-Generated Data

• Predictive



#No. Costly Patients	#No. CPC+ Patients	2018 AVG HCC Score	2018 HCC 🕞 Benchmark	2018 YTD AVG Per 💿 Patient Spend	2018 YTD AVG Per Patient Spend vs 2018 HCC Benchmark
30	0	1.251	\$11,323.09	\$7,642.85	67.50 %
78	0	1.352	\$12,231.21	\$12,270.92	100.32 %

Potentially Costly

DIAGNOSIS ACCURACY STRATEGIES



What is in your control?

Diagnosis Diagnosis Diagnosis

For risk score and financial benchmark to be successful, the provider team must report all diagnoses that impact the patient's evaluation, care, and treatment including co-existing conditions, chronic conditions, and treatments rendered.



This is NOT patient data. This is for demonstration purposes only.

Current Diagnosis List (ICD-10)

R938 Abnormal findings on diagnostic imaging of body structures

H1013 Acute atopic conjunctivitis, bilateral

H2513 Age-related nuclear cataract, bilateral

D649 Anemia, unspecified

1440 Atrioventricular block, first degree

T82510A Breakdown if surgically created AV fistula, init

Current Medication List

ATORVASTATIN CALCIUM

Auryxia

Azelastine Hydrochloride

Azithromycin

Dilantin

Escitalopram

MIDODRINE HYDROCHLORIDE



Example: How Diagnosis Documentation Affects Scoring

"c/o visual disturbance. PMH + Retinopathy and DM2"

250.00 and 362.10 (retinopathy w/o mention of diabetes)

Risk score: .162 (.162 + 0)

"Proliferated retinopathy due to DM2"

250.50 and 362.02

Risk score: .**511** (.259 + .252)



Key is be specific

MEAT is a common standard for documentation

The provider team must document all active chronic conditions as well as conditions that are relevant to the patient's current care.



MEAT – All Chronic and Relevant Diagnoses Monitor-signs and symptoms, disease process

Evaluate-test results, meds, patient response to treatment

Assess/Address-ordering tests, patient education, review records, counseling patient and family members

Treat-meds, therapies, procedures, modality..

Capture the HCC Diagnosis Code with Payor

Patient Superbill Diagnosis Codes
ICD10-1
ICD10-2
ICD10-3
ICD10-4

Billing Company Submission of Diagnosis Codes ICD10-1 ICD10-2 Missing Code Missing Code

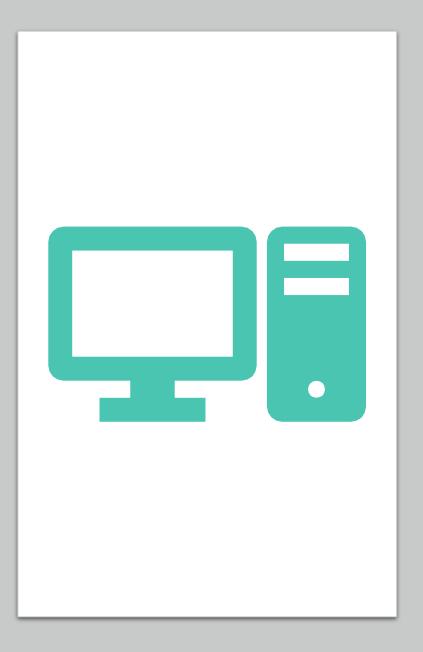
Not capturing the codes results in lower HCC score for patient and lower benchmark for ACO.

Takes minimum of 12 months for this to create impact on your benchmark.

Compare your EHR records to Patient Profile for 10 Charts.

Over 50% of ACOs have encountered this issue.





ACTIONABLE DATA AT POINT OF CARE

USING DATA-DRIVEN INTELLIGENCE

EHR API Connector Application Program Interface (API)



EHR Strategy

After 12 months Diagnosis is removed unless recoded

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ABIADISSING	003				
		Patient Requires Attention (Spend is Grea	ater Than Expected)		
+M Mahalla Ta	10 11 107050		Dec	gort / Print Guick Profile	
Michelle Te	stPatient878F8		1915	PDP Island PDF	
HICN: 900478330X		HCC Risk Score: 0 2 195		Text Alert Enrolled: No	
MBI:		Primary Assigned Practice: Demo Hospital		Status: Attributed	
DOB: 09-25-1927		Primary Assigned Provider: None Assigned		CCM Eligible: Yes	
				State State State of State Sta	
Gender: F		Population: ACO		Potentially Costly: Yes	
+ All + All Quick Profile Patient	History Patient Contact Details				
2018 vs 2017 HCC	DX	2018	vs 2017 Medications		
Chronic Kidney Disease	(Stage 5)	Calotri	Calotriol		
	Severe (Stage 4)	Clopide	Clopidogrel		
Chronic Kidney Disease	Diabetes without Complication		Eludrocortisone Acetate		
and a second	plication		Lovastatin		
Diabetes without Comp	ne and Metabolic Disorders	Lovast	atin		
Diabetes without Comp	the and Metabolic Disorders		oloi tartrate		
Diabetes without Comp Other Significant Endocr	ine and Metabolic Disorders ISD	Metop			
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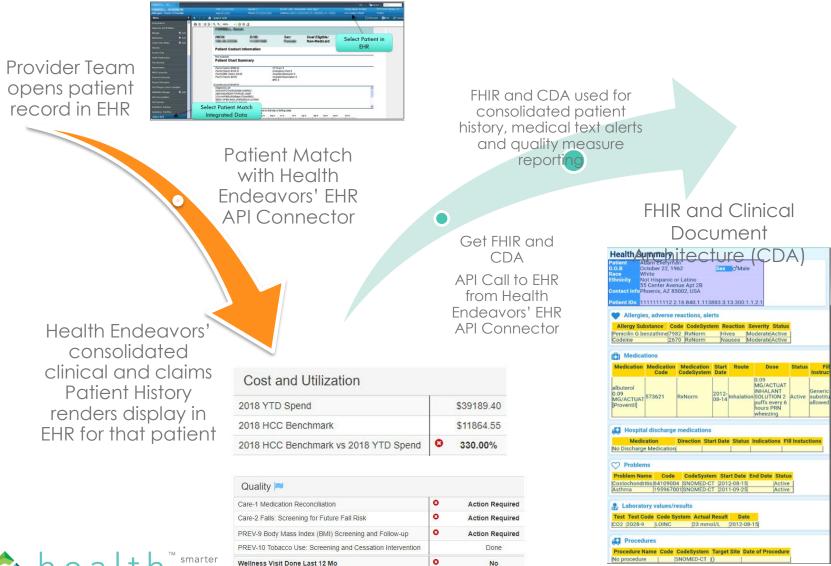


Point of Care HCC Coding Re-code removed diagnoses at the clinic encounter

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i122-376-438	MRN:00011850 Disch DT:	PCP:Test, Ambulatory: Urgent Care Physician M	teas. Wt:75.2 kg Allergies: Gra	ss, ampicillin, Apple Juice, Calcium [0] Full screen
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Review				
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h Viewer Browser	HICN: 900478330X	HCC Risk Score: 2.195	Text Alert Enro	Iled: No
1 Chart	MBI:	Primary Assigned Practice: Demo Hospital	Status: Attribute	ed
Maintenance	BBB 40.05 4007			
	DOB: 09-25-1927	Primary Assigned Provider: None Assigned	CCM Eligible: \	65
nization Schedule tive View and I&O	Gender: F	Population: ACO	Potentially Cos	tly: Yes
ummary				
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🕈 Add	Quick Prome Patient History Patient Contact Details			
Information Antibiotic Advisor	2010 - 2017 UOO DV	2010	0047.00	
usion Medicine Summary	2018 vs 2017 HCC DX	2018	vs 2017 Medications	
	Chronic Kidney Disease (Stage 5)	Calcitri	ol	
	Chronic Kidney Disease, Severe (Stage 4)	Clopide	ogrel	
	Diabetes without Complication	Fludroo	cortisone Acetate	
	Other Significant Endocrine and Metabolic Disorders	Lovasti	atin	
	Protein-Calorie Malnutrition	Metopr	olol tartrate	
	Specified Heart Arrhythmias	Midodr	ine Hydrochloride	
	Vascular Disease	Nitrofu	irantoin (monohydrate/macrocrystals)	
		Synthro	oid	
		Tobram	nycin	



Patient Match - Application Program Interface (API)



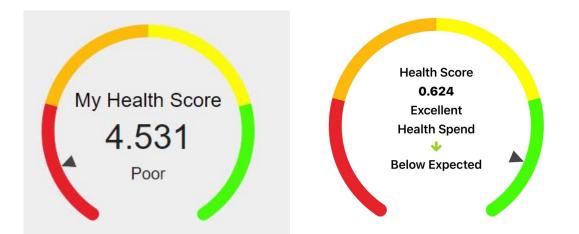
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Risk Score, Benchmarks and Spend

Patient Requires Attention (Spend is Greater Than Expected)

Provider team instantly knows if patient is above their financial benchmark.





Cost & Utilization

Patient Requires Attention (Spend is Greater Than Expected)

Cost and Utilization		
2018 YTD Spend	\$200	37.49
2018 HCC Benchmark	\$198	64.75
2018 HCC Benchmark vs 2018 YTD Spend	O 101.	.00%
Out of Network Spend*	\$186	34.66
Office Visits*	06-26-2018;06- 201	-26-2018;06-27- 8
Most Visited Provider*	1003177767 D M.C	ONALD TOBIAS
Last Wellness Visit*	0 N	/ A
Admits*	8	1
Readmissions*		0
ED Visits*	8	1
ED Visits that led to Hospitalizations*	8	1
CT Scans*	O :	2
MRI Events*		0

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Quality Metrics - Action Required - Alerts Provider Team

Quality 📂

Care-1 Medication Reconciliation	8	Action Required
Care-2 Falls: Screening for Future Fall Risk	0	Action Required
PREV-5 Breast Cancer Screening		Not Applicable
PREV-6 Colorectal Cancer Screening		Not Applicable
PREV-7 Influenza Immunization		Done
PREV-8 Pneumococcal Vaccination	0	Action Required
PREV-9 Body Mass Index (BMI) Screening and Follow-up	8	Action Required
PREV-10 Tobacco Use: Screening and Cessation Intervention	0	Action Required
PREV-12 Screening for Depression and Follow-up Plan	8	Action Required
PREV-13 Statin Therapy	8	Action Required
DM-2 Composite/DM with HbA1c > 9 percent (poor control)		Not Applicable
DM-7 Composite/DM and Eye Exam		Not Applicable
HTN-2 Controlling High BP		Not Applicable
IVD-2 IVD and Use of Aspirin or another Antiplatelet	8	Action Required
MH-1 Depression Remission		Not Applicable



Wellness Visit Done Last 12 Mo	No - 09/15/2017 - Complete

Gaps In Care at Risk	
Diagnosed with Hypertension	Yes
Blood Pressure Last 12 Mo	O No - 06/17/2016 - IN RANGE
Tobacco Use Last 12 Mo	O No - 06/17/2016 - 3-Not a tobacco user

Diagnosed with Diabetes		Yes
Blood Pressure Last 12 Mo	0	No
Foot Exam Last 12 Mo	0	No
HbA1C Last 12 Mo		Yes - 05/29/2018
LDL-C Last 12 Mo	0	No - 03/30/2016
Retinal Exam Last 12 Mo	0	No - 02/22/2016
Tobacco Use Last 12 Mo	0	No
Diagnosed with Hypertension		Yes
Blood Pressure Last 12 Mo	0	No
LDL-C Last 12 Mo	0	No - 03/30/2016

Disease, Quality and Wellness Care Gaps



Out-of-Network

Eligibility

Dual Eligible: Non-Medicaid Medicare Status Code: Aged without ESRD

HCC Trend

2017 Your Risk Score: 1.826 2016 Your Risk Score: 2.676 2015 Your Risk Score: .817 2014 Your Risk Score: .265 Part A In Network Part A Out Of Network Part B In Network Part B Out Of Network

February

< 2018

January

oui	Iuu	y				
Su	Мо	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	0	12	13
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18	19	20	21	22	23	24
25	26	27	28	29	30	31

March



Patient Search

Patient First Name	Patient Last Name Q Admin	- Ů Logout
	Cost and Utilization	
Alternative to EHR API	2018 YTD Spend	\$39189.40
Connector	2018 HCC Benchmark	\$11864.55
Patient search allows users to	2018 HCC Benchmark vs 2018 YTD Spend	O 330.00%
access the point of care actionable analytics.	Quality 🛤	22
	Care-1 Medication Reconciliation	O Action Required
	Care-2 Falls: Screening for Future Fall Risk	O Action Require
	PREV-9 Body Mass Index (BMI) Screening and Follow-up	O Action Require
	PREV-10 Tobacco Use: Screening and Cessation Intervention	Done

Wellness Visit Done Last 12 Mo

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healthcare

No

0

Why annual wellness visit is important

HCC Coding at Point of Care

Recode diagnosis every year

MEAT - Manage patient's diagnoses

Changes will Take 12 months DO NOT WAIT IF ASSUMING RISK MODEL

Month 6

Month 1



Month 12

Quick Wins - Accuracy Strategies

- Schedule Annual Wellness Visit (AWV)
 - Implement MEAT during AWV
 - Code applicable diagnoses accurately
- HCC Coding Point of Care
 - Recode applicable diagnosis every 12 months
 - Importance of the Annual Wellness Visit
- Capture the HCC diagnosis code with payer
 - Verify EHR and Billing system sending ALL diagnoses



Report Strategies

- Not taking medication (NOT refilling)
- Diagnosis but NO medication
- Medication but NO diagnosis



HCC Coding External Audit

Long-term strategy



Problem with calculating Risk Score using only EHR data

- EHRs only have the data for the encounters for the providers using it
- Does not have all encounters for all providers.

This is why claims data is normally used to calculate.

Export to Excel View NPI View TIN Patient Risk Stratification

Risk Score is Accurate

Our New Problem:

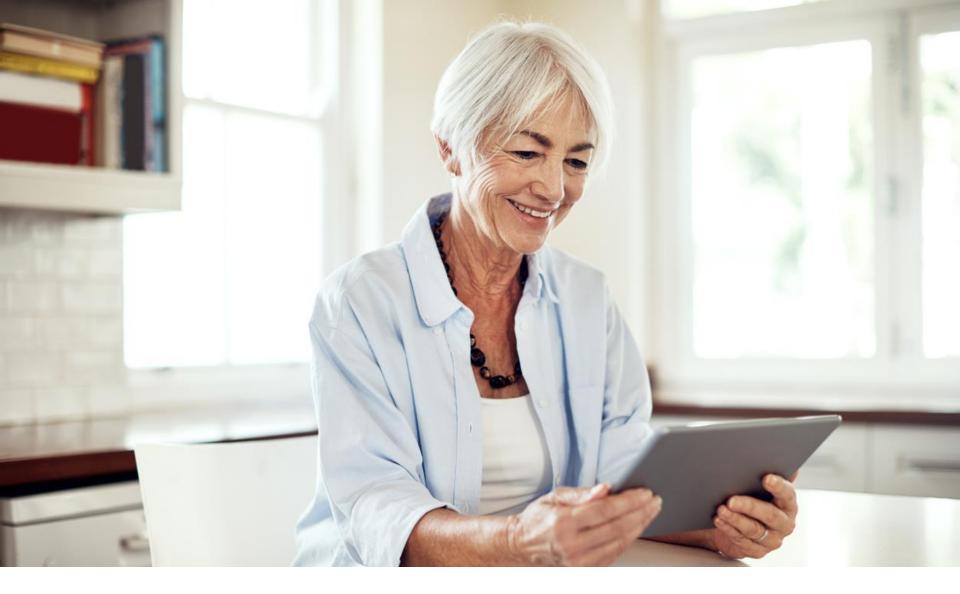
- Risk Score is Accurate
 - Patient not managing conditions; e.g., emergency room, re-admission therefore provider exceeds allocated spend for the patient.

The Result: Actual cost of the coded diagnoses exceeds expected level for that HCC Score.

MEAT Manage Diagnoses

- Once risk score and financial benchmark are accurate, manage patient conditions to keep below patient financial benchmark.
 - Must document diagnoses
 - Must manage diagnoses





Consumer Engagement



Consumer Incentives to Improve My Health Score





Consumer Interactive Health History Form

MANAGE MEDICATIONS AND DIAGNOSES

Use your data to create a health history form that you can have with you on the go or print a PDF to share with family or providers

D631 Anemia in chronic kidney disease	100	
Z23 Encounter for immunization	W5641XA Bitten by shark, initial en	counter
Not Managing	Diagnosis Management Status	
W5641XA Bitten by shark, initial encounter	Unaware of Diagnosis O	Not Managing 🛛 🔗
Managing	Managing O	Management Not Required O
R42 Dizziness and giddiness		
Management Not Required	Details	
D509 Iron deficiency anemia, unspecified Testing diagnosis details		

Yes, taking		
res, taking	Prednisone	×
Vitamin C Liquid		
Prednisone	Are you currently taking this medication?	
Pentoxifylline	Yes, taking O No, not taking	0
Pantoprazole Sodium	Notes	
Metoclopramide Hydrochloride		
Calcium Acetate		h
No, not taking	Cancel	Save
Ibuprofen Sometimes I take this for swelling	SR NNT	
Add Medication O		



Data in 2 Buckets

Incomplete Care Gaps – Text Alert to Consumer

Complete Care Gap -Quality Measure Registry Reporting for Scoring

Care Gap Text Alerts

K Home Things to Complete				
Wellness Visit Complete	Change Status			
HbA1C Action Required	Change Status			
Foot Exam Action Required	Change Status			
Blood Pressure Action Required	Change Status			
Tobacco Use Action Required	Change Status			
LDL-C Action Required	Change Status			



Save Activity Statuses

Quality Metric Gap Analysis

Not Qualified Skipped Performance Answer Exception (Medical, etc) Non-Performance Answer Incomplete CARE-2 Fall Scree. PREV-5 Brst, Cancer PREV-8 Colorectal. PREV-7 Influenza. PREV-8 Pneumo Vax PREV-9 BMI PREV-10 Tobacco. PREV-12 Depression PREV-13 Statin Th., DM 2 HbA1c DM 7 Eye Exam HTN Hypertension IVD 2 Ischemic Va. MH Depression Re.. 35 0 70 105 140

GPRO Completion by Measure



Performance Score

PREV-5	PREV-6	PREV-7	PREV-8	PREV-9
90%	90%	90%	90%	90%
92.19%	58.78%	29.87%	44.60%	4.26%
100.00%	78.57%	28.21%	36.84%	2.27%
71.43%	63.64%	50.00%	69.57%	2.38%
87.50%	44.44%	38.46%	50.00%	2.13%
80.00%	43.75%	53.85%	72.73%	8.67%



Get the Right Benchmark Webinar Thursday, May 9

> Health Endeavors: Risk Scores and Benchmarks

Enjoin: Conduct an Audit to fasttrack coding fixes



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