

# Population Health Management

## Bio-Psycho-Social Assessment (BPSA)

# Managing an Assigned Population

- 35,000 assigned Medicaid lives
- Value-based contracts put us at risk (both upside and downside) for quality targets and cost targets (quality bonus and shared savings)
- Who are these patients?
- What is driving their use of services? Medical? Psych? SDOH?
- Who are the sickest and what resources do they need?
- Who are *next* sickest and what resources do they need?

# Model description

- Biopsychosocial Algorithm of Patient Complexity
- Quantifies patient complexity from biological, psychological, and social domains
- Points assigned to conditions are combined into overall BPSA score by patient

## Patient Information

Age, Income, BMI,  
Language, Living  
Arrangement

Appointment No-  
Show Rate, Care  
Plan Engagement

## Claims / Utilization

Medical and  
Behavioral  
Diagnoses

Prescriptions, BHC  
Visits, Hospital  
IP/ER Use



## Social Factors

Support System,  
Isolation, Legal,  
Culture, Access to  
Health Care

Transportation,  
Housing, Access to  
Food, Education,  
Employment



# Medical (Bio) factors (EHR and claims)

- Asthma
- Myocardial Infarction
- Cerebrovascular Disease
- Diabetes
- Leukemia
- Low Back Pain
- AIDS
- Etc.

# Psychological factors (EHR and claims)

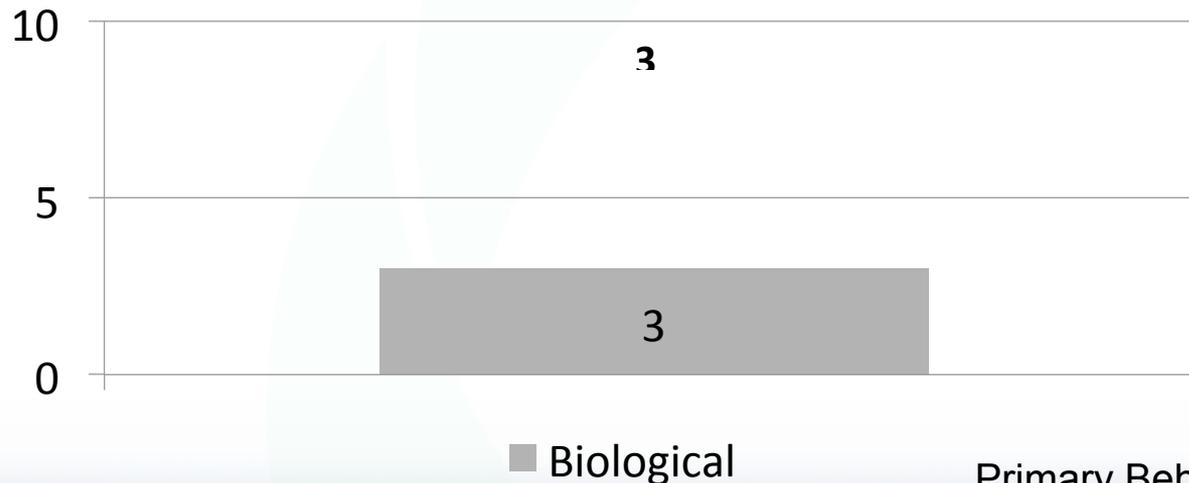
- Anxiety
- Trauma/PTSD
- Eating Disorder
- Major Depression
- Bipolar Disorder
- Etc.

# Social factors (taken/discussed at visit – entered into record)

- Income below federal poverty guidelines
- Homeless or unstable housing
- Transportation barriers
- Employment barriers
- Issues with primary support system
- Legal problems
- Lack of access to food/clothing
- Social isolation
- Language/cultural barriers

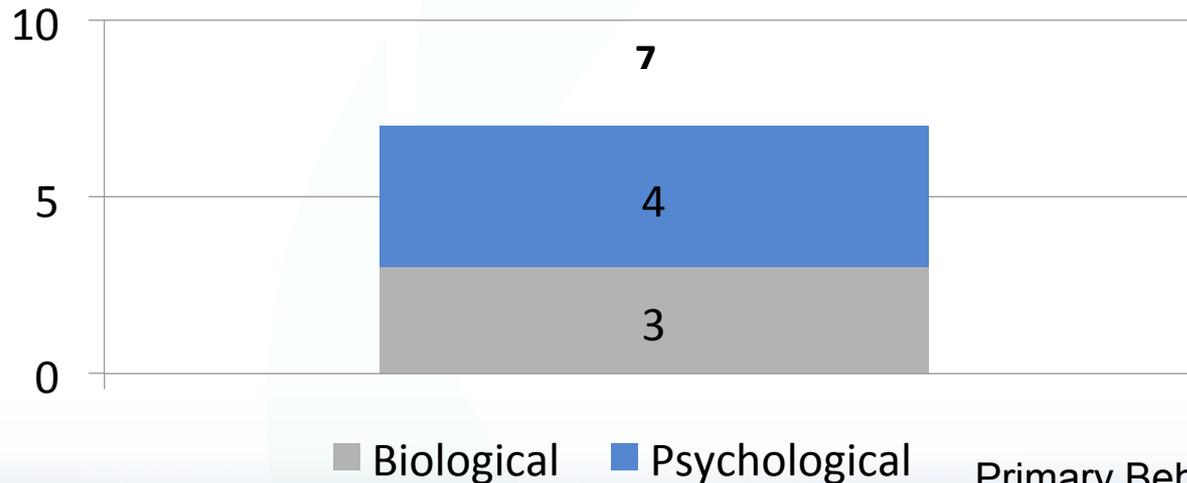
# BPSA Score: Biological (medical diagnoses from claims/records)

Category	Biological	Psychological	Social	BPSA
Patient #1	3	4	2	9



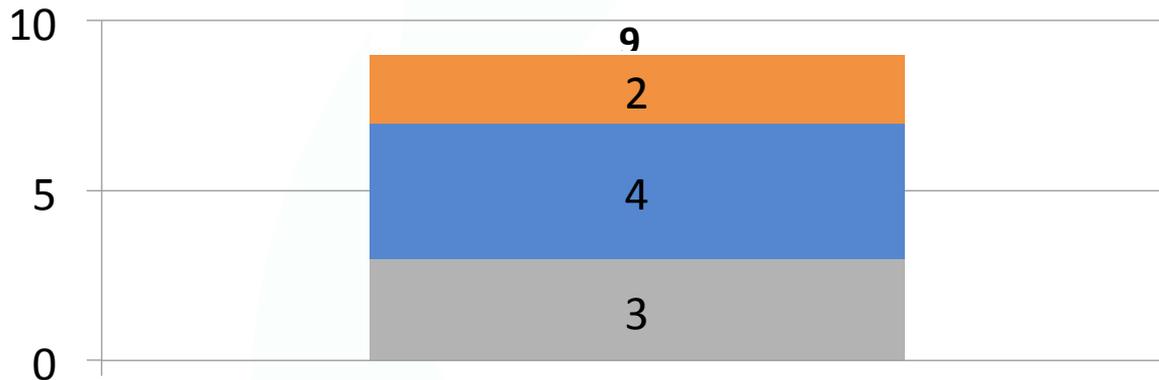
# BPSA Score: Biological + Psychological (diagnoses from claims/record)

Category	Biological	Psychological	Social	BPSA
Patient #1	3	4	2	9



# BPSA Score: Biological + Psychological + Social

Category	Biological	Psychological	Social	BPSA
Patient #1	3	4	2	9



■ Biological ■ Psychological ■ Social

Primary Behavioral Health  
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# BPSA Results: CHS 10 Highest Ranked Active Patients (mean = 5)

Rank	MRN	Bio	Psych	Sdoh	Total Score	Last MED DOS	Last BH DOS	Financial Class
1	xxxxx	11	19	12	42	20150616	20140311	Medicaid
2	xxxxx	17	11	12	40	20150630	20150413	Medicaid
3	xxxxx	15	19	5	39	20150605	20150511	Medicaid
4	xxxxx	5	19	15	39	20150624	20150225	Medicare
5	xxxxx	14	18	6	38	20150421	20150709	Medicaid
6	xxxxx	14	17	7	38	20150417	20120927	Medicare
7	xxxxx	21	11	5	37	20090323	20150420	Medicaid
8	xxxxx	11	17	9	37	20150618	20140206	Medicare
9	xxxxx	16	13	8	37	20120313	20121108	Medicaid
10	xxxxx	11	17	9	37	20141104	20140925	Medicare

# CHS 20 Highest Ranked Assigned PCP

Rank	Provider	Patients	Avg Score
1	A	501	40.1
2	B	1,698	39.2
3	C	508	38.6
4	D	625	38.5
5	E	1,490	37.6
6	F	1,175	36.8
7	G	1,501	34.4
8	H	1,034	33.9
9	I	921	32.0
10	J	1,476	32.0

Rank	Provider	Patients	Avg Score
11	K	954	30.4
12	L	445	30.1
13	M	1,387	29.1
14	N	735	27.5
15	O	829	25.9
16	P	902	25.2
17	Q	1,633	24.8
18	R	413	24.5
19	S	914	23.8
20	T	851	23.1

# Quality Metrics

<u>Measure</u>	<u>NCQA 75th Percentile (2013)</u>	<u>TennCare Target 2014</u>	<u>Proposed Target</u>
Childhood Immunization Status, Combo 10 (CIS 10)	38%	n/a	___%
Treatment for Children with Upper Respiratory Infection (URI)	90%	84%	___%
Breast Cancer Screening (BCS)	58%	55%	___%
Controlling High Blood Pressure (CBP)	63%	64%	___%
Diabetic HbA1C Testing (CDC HbA1C)	87%	n/a	___%
Diabetic LDL-C Screening (CDC LDL)	81%	n/a	___%
Postpartum Care / Visits (PPC)	71%	71%	___%
Follow up Visit Within 7 Days of Discharge from Acute MH Admission	69%	n/a	___%
Antidepressant Medication Management -Acute Phase, First 60 Days	56%	n/a	___%
Follow-Up Care for Children Prescribed ADHD Medication	46%	n/a	___%

[Go to BH Home Page](#)
[Go to BH Consult](#)
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[Send Task](#)

 Version 1.2.1 | Patient Portal Enrollment Status: **Token Issued**

Care Team	
Type	Provider
PCP	Grieve PA-C, Heather
PSY	Phillips PMHNP-BC, Rebekah Marie
TPR	FREEMAN PHD, DENNIS
TX	FREEMAN PHD, DENNIS

Future Appointments				
Provider	Event	Time	Date	
FREEMAN PHD, DENNIS	BH 30 Therapy	09:30	02/16/2016	
Serrell MD, Paul Burt	PC Nephrology FU	10:00	03/03/2016	
Phillips PMHNP-BC, Rebekah Marie	BH Est Psy 15	09:30	03/30/2016	

Past Appointments				
Provider	Event	Status	Date	
FREEMAN PHD, DENNIS	BH 30 Therapy	Kept	01/19/2016	
FREEMAN PHD, DENNIS	BH 30 Therapy	Cancelled	01/07/2016	
Yates MD, James Douglas	PC Cardio Fol Up	Kept	01/07/2016	

Self Management			
Goal	Status	Start Date	
Walk 30 mins 3 x a week	Ongoing	02/11/2016	

Allergies	
Description	RXN Desc
NO KNOWN DRUG ALLERGIES	

Hospital ER/Admissions (Last 90 Days)		
Description	Date	
None		

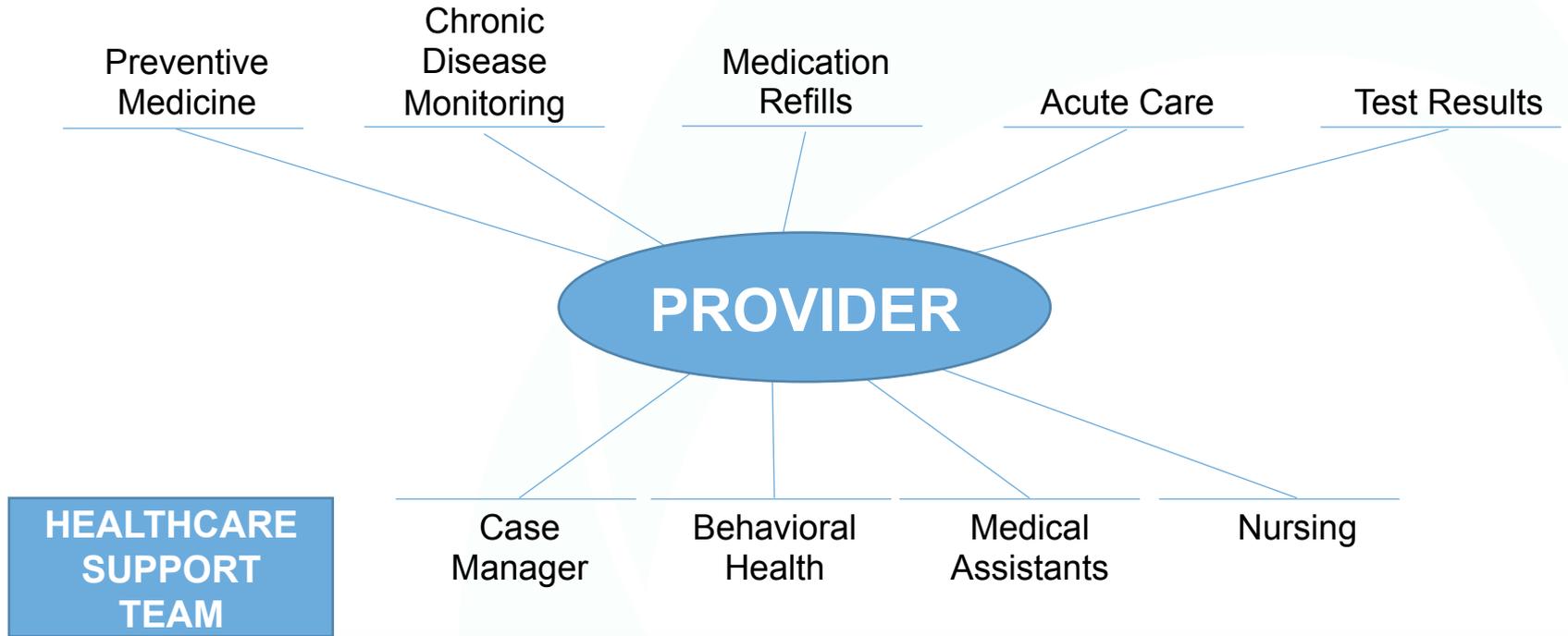
Care Coordination	
Care Intervention	
CHC outreach when indicated	

Point of Care				
Preventative Care				
Protocol	Status	Last Date	Due Date	
Mammogram	Due	07/19/2012	07/19/2013	
PAP		09/18/2013	09/18/2016	
Pneumococcal		11/26/2012	01/14/2034	

Health Management				
Protocol	Status	Last Date	Due Date	
ACT	Due		02/15/2016	
Eye Exam		08/25/2015	08/25/2016	
Hemoglobin A1c		11/10/2015	05/10/2016	
Lipid Panel		09/25/2015	09/25/2016	
Microalbumin	Due	11/01/2011	11/01/2012	

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# Traditional Primary Care Work Flow



Source: Southcentral Foundation, Anchorage AK

# PCMH Work Flow

## Integrated Care Team



# Integrated Care Team



# Patient Population Management

## Stratification of Patient Population

BPSA

