# A Perfect Storm: Increasing At-Risk Contract Lives & Decreasing Nursing Availability

# Building a Scalable Model for VBC

Blake Marggraff | CEO, CareSignal – a Lightbeam Company | blake@caresignal.health

Shelley Davis | VP Clinical Strategy, Lightbeam Health Solutions | sdavis@lightbeamhealth.com

# **Best Outcomes**

- Identify the clinical & financial impact of <u>rising-risk management</u>
- Explore models for <u>true at-scale</u> care management & remote monitoring operationalization
- Investigate the real-world <u>challenges</u>, <u>opportunities</u>, <u>& impacts</u> of this paradigm shift across provider types

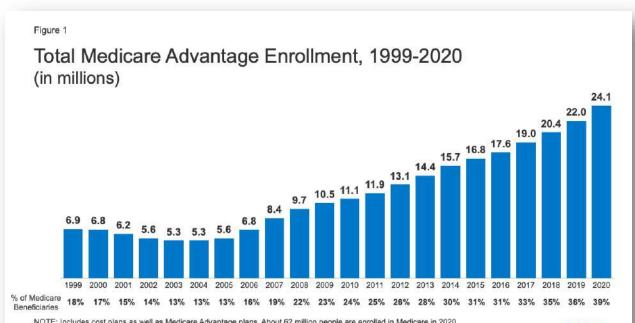


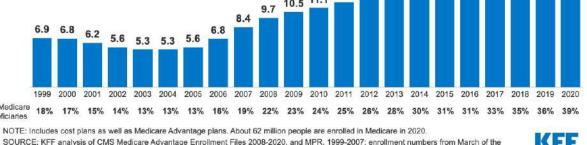
# **Best Outcomes**

- Identify the clinical & financial impact of <u>rising-risk management</u>
- Explore models for <u>true at-scale</u> care management & remote monitoring operationalization
- Investigate the real-world <u>challenges</u>, <u>opportunities</u>, <u>& impacts</u> of this paradigm shift across provider types

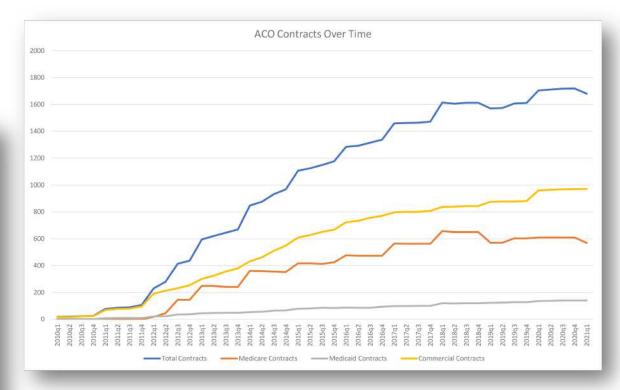
<u>Understand why now is the time to lead your organization through VBC enablement</u>

# **Increasing Lives in At-Risk Contracts**





respective year, with the exception of 2006, which is from April. Number of people eligible for Medicare comes from the CMS Medicare Advantage Penetration Files for years 2008-2009; for years 2010-2020, number of people eligible for Medicare comes from the Medicare Enrollment Dashboard.





# **Decreasing Nursing Availability**

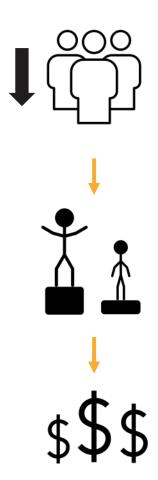


# **Nursing Shortages Inhibit Health Equity**

#### Racial Disparities in Stroke Readmissions Reduced in Hospitals With Better Nurse Staffing February, 2022

Carthon, J. Margo Brooks; 📵 Brom, Heather; 📵 McHugh, Matthew; 📵 Daus, Marguerite; 📵 French, Rachel; (1) Sloane, Douglas M.; (1) Berg, Robert; (1) Merchant, Raina; (1) Aiken, Linda H.

Readmission risk changed from not significant to **27% higher than white patients** when nurse staffing ratios became worse.





# Bending cost curve requires proactive management of high- and rising-risk patients



"Our findings may also reflect fundamental challenges with the strategy of targeting superutilizers: many patients whose medical costs are high today will not be as high in the future."<sup>2</sup>

5% of population

Each year, 1 in 5 rising-risk patients become expensive, high-risk patients.<sup>1</sup>

Rising-Risk 20% of population

High-Risk

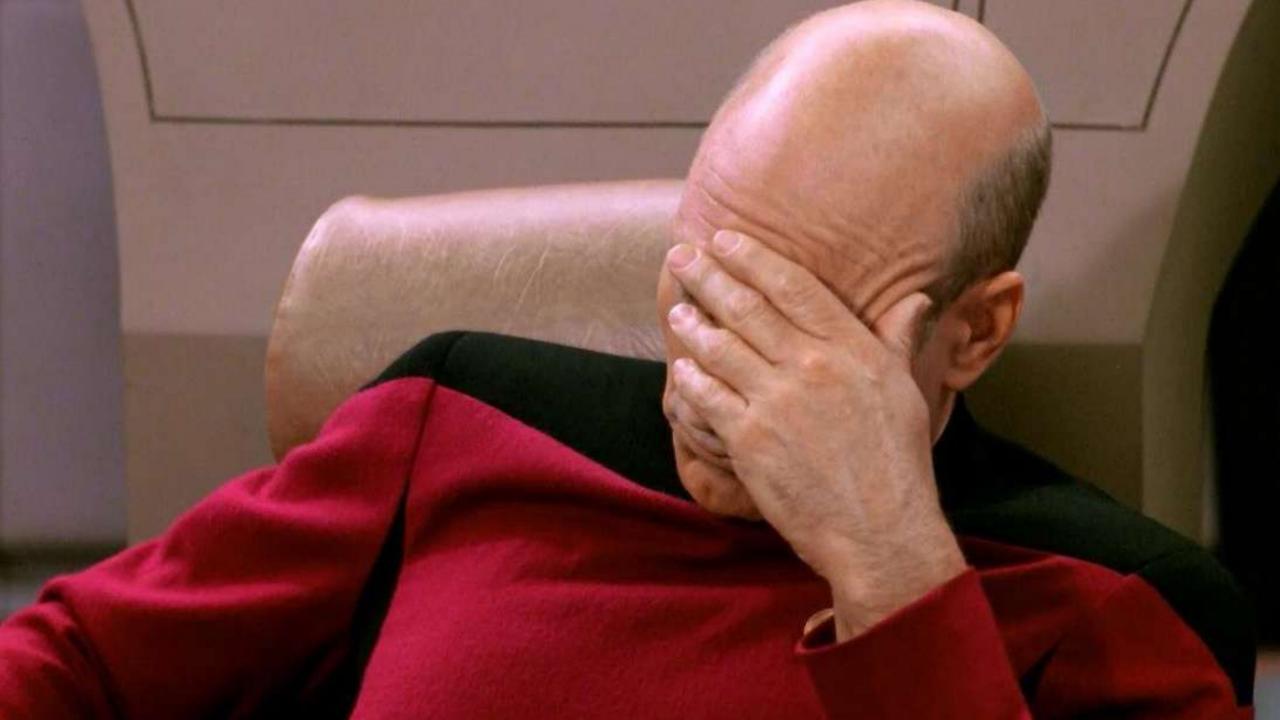




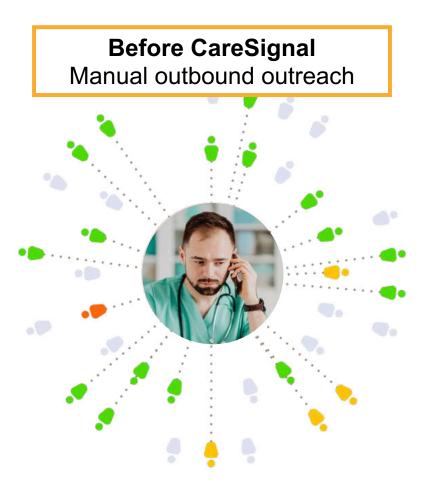
# **Let's Recap...**

- 1. Embrace risk-based care models or perish!
- 2. While clinical staff are more expensive than ever...
- ...but absolutely vital for health equity and financial sustainability
- 4. And do it all while supporting 5-10x more patients than ever before.





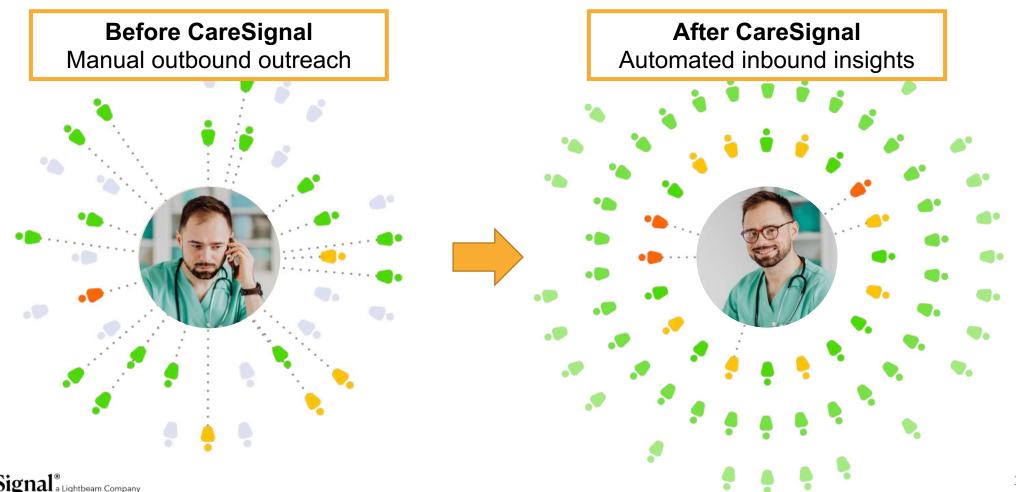
# Care Management for Rising Risk: a Paradigm Shift





# **Care Management for Rising Risk: a Paradigm Shift**

Do more with less by automating routine outreach & providing top-of-license care



# **Deviceless Remote Patient Monitoring**

Affordable | Accessible | Scalable

- No new devices required
  No apps, downloads, or passwords
- Accessible for all patients

  Promote & elevate health equity
- Clinically validated

  13+ Peer reviewed publications
- 30 Programs | One Portfolio Pre-built & evidence-based
- Engagement powered by Al Predict & prevent drop-off
- At-risk pricing
  No upfront cost & guaranteed ROI





# **CareSignal Portfolio & Results**

30+ Evidence-Based Programs | One Portfolio

#### **Chronic Conditions**

- Heart Failure
- •COPD
- Diabetes
- Hypertension
- Asthma

#### **Specialty Support**

- •SDoH
- Maternal Health
- Dialysis
- Surgery
- HIV/AIDS

#### **Care Coordination**

- Screening Reminders
- Appointment Reminders
- Referral

#### **Behavioral Health**

- Depression
- Anxiety
- Substance Use
- Opioid Management
- Caregiver Support

#### **Post Discharge**

- Post Discharge
- General Medical
- Vital Signs
- Pneumonia

#### General Programs

- •COVID Suite
- •Influenza
- •Fall Risk
- •Wellness
- Medication Adherence

#### 13 Publications

in Peer-Reviewed Medical Journals



**62% decrease** in hospitalizations for patients with COPD



**46% decrease** in CHF ED visits



1.15% drop in HbA1c over 4 months



50% improvement in blood pressure control over 12 weeks



**28% drop in PHQ-9** for patients with depression

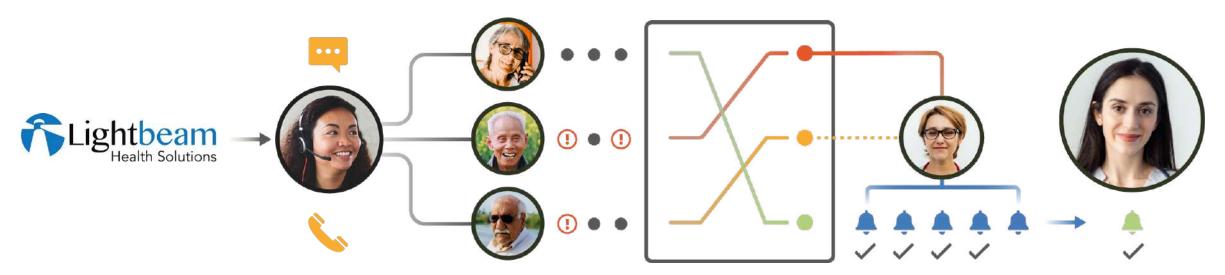


>2.1x increase in follow-up appointment adherence

13



# **Patient Journey with CareSignal & Lightbeam**



**Lightbeam**Identifies cohort of target patients for CareSignal

CareSignal
Enrolls patients via
text, email, mailers,
and direct phone
calls

Patients
Answer automated
SMS and phone call
prompts, sending in
clinically-relevant data

CareSignal
Categorizes at-risk
patients and triggers
alerts in real-time

Client or LCS
Care Managers monitor
dashboard and follow
standard operating
procedures

**Providers** receive escalations, only as needed



# Everything you need to manage outcomes and improve population health right at your fingertips.

**Data Aquisition** Data Quality & Management Insights Engagement Artificial Intelligence REAL-TIME Physician Risk Stratification Engagement Claims Cohort Builder Staging Environment Enterprise Data Warehouse Patient **HCC Insights** Engagement Analytics De-Dupe Workflow Care Gaps **EMPI** Normalization Care **Automation** Attribution Management Referral Management **EHRs** CUSTOM Insights to the Point of Care



# **Lightbeam Health Solutions Overview**

#### **PROVEN**

We serve over 17,000 physicians and 42 Million patients. Our clients have achieved over \$1.5 Billion in gross savings with an average quality score of 98%.

#### PATIENT-CENTERED

We take pride in knowing we are facilitating world-class care to someone's most important person. Our integrated, interdisciplinary system is designed with holistic care of the patient in mind.

### PURSUING EXCELLENCE

We are committed to continuous process improvement and partnering with you to meet your goals. You will have direct access to Lightbeam's executive team to discuss results and expectations.

#### **TRUSTWORTHY**

We do the right thing, every time.
We earned the prestigious
HITRUST CSF®
Certification,
delivering on our commitment to security, privacy, and protection.

#### **PREDICTIVE**

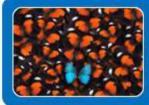
Our Searchlight risk stratification engine identifies patients who have predictable, avoidable high-cost events and identifies opportunities, keeping you one step ahead.



### A Targeted Approach to Population Health Management



Lightbeam's innovative risk stratification measures include Johns Hopkins ACG Model, a Proprietary Ability to Impact Score, Charlson Comorbidity Index, and NYU Emergency Medical Services Algorithm for avoidable ED utilization



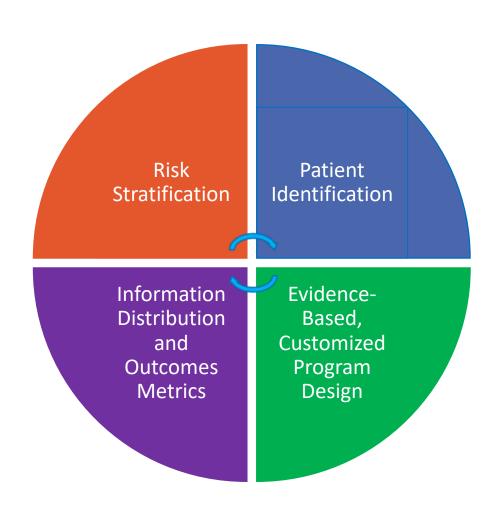
Lightbeam's powerful and precise Cohort Builder segments patients to quickly identify opportunities based on your VBC goals and to positively impact the patient population



We partner with you to design and build a care management and quality program that meets your goals. We advise on best practices for staffing models, workflows, care plans, assessments, and documentation to allow teams to work at top-of-licensure and improve care



Lightbeam measures results, compares them against benchmarks, and gives you the tools needed to accurately and appropriately deploy resources. Patient Data Export provides the ability to use information for organizational reporting



### **The Success Bottleneck**



Lightbeam Analytics



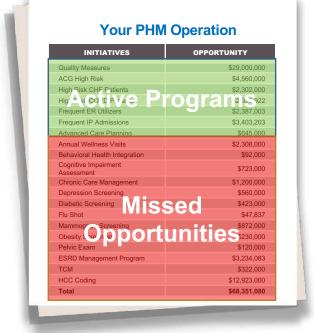
Advisory Services or Client Analysis



Resource

Capacity

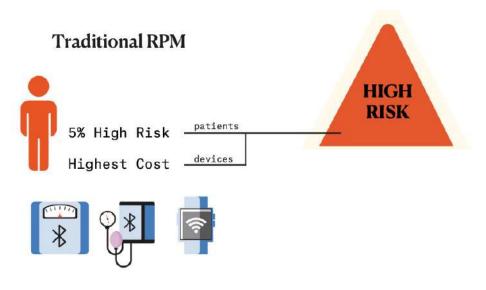
Total Opportunity



**Program Support** 

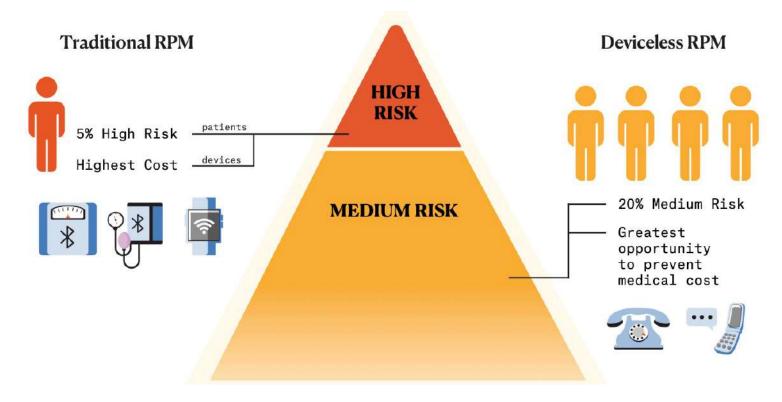






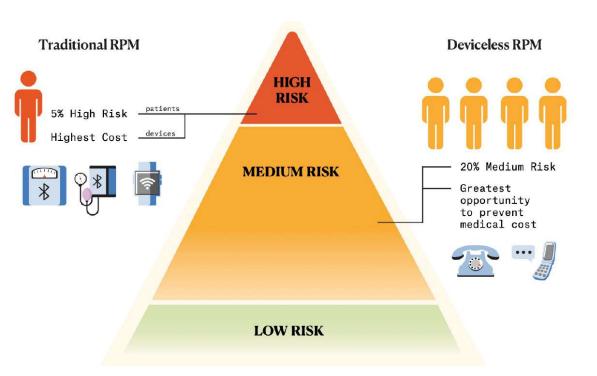


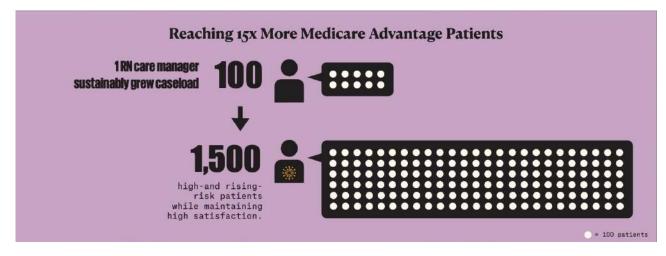






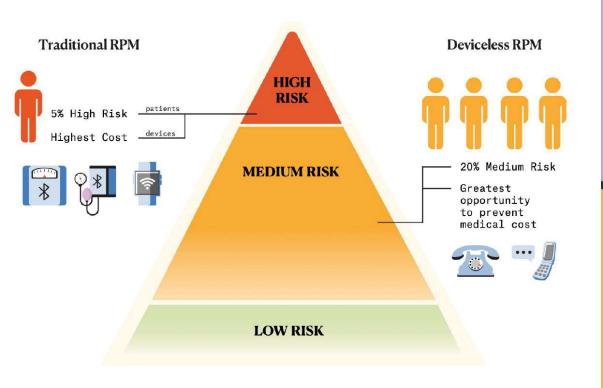


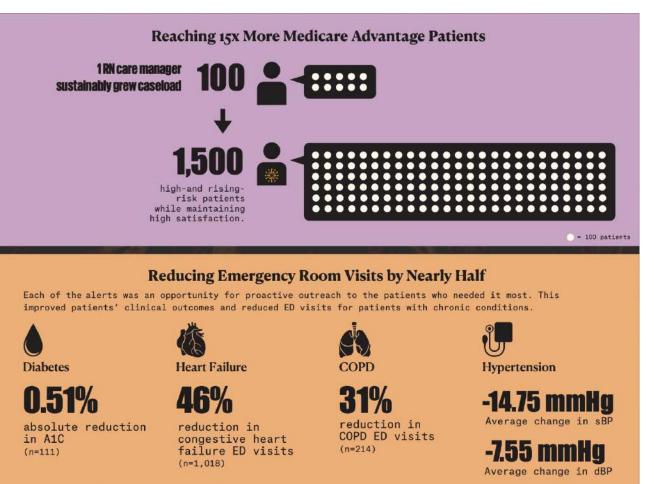








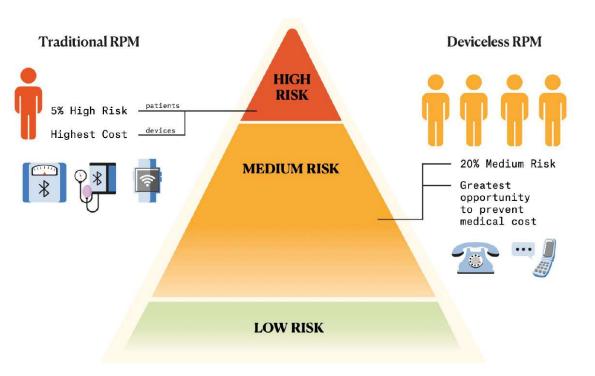




22



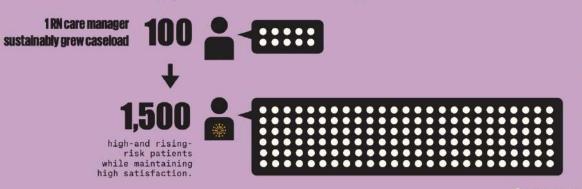






Copyright CareSignal®. Confidential.

#### Reaching 15x More Medicare Advantage Patients



= 100 patients

#### **Reducing Emergency Room Visits by Nearly Half**

Each of the alerts was an opportunity for proactive outreach to the patients who needed it most. This improved patients' clinical outcomes and reduced ED visits for patients with chronic conditions.



Diabetes

0.51%

absolute reduction in A1C (n=111)



Heart Failure

46%

reduction in congestive heart failure ED visits (n=1,018)



COPD

31% reduction in COPD ED visits (n=214)



Hypertension

-14.75 mmHg
Average change in sBP

-7.55 mmHg
Average change in dBP

#### Esse Lowered PMPM Costs by More Than \$120, Sustained for 18 Months

Improved clinical outcomes led to over three million dollars in savings.

All Claims Analysis: Financial Savings (p = 0.017)

\$3.6M

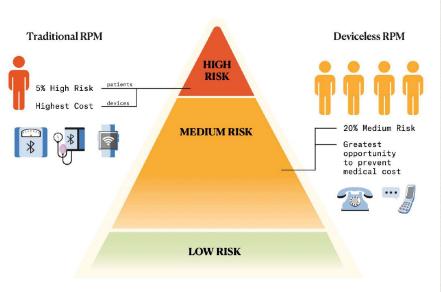
\$124

8x

11% reduction in total paid medical claim costs

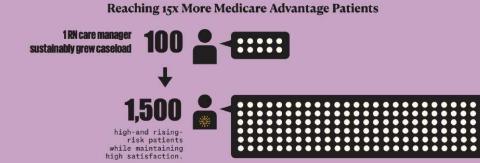






"Now we've been able to wrap our hands around a whole group of people who otherwise might not have gotten all those touches that they received with the platform. We've been able to scale the outreach dramatically without an increase in staff, and that's really important. High-risk care management is inherently a reactive model. By extending care management into the rising-risk patients, we are becoming more proactive. Now we can say, 'Hey, there might be a problem developing. Let's reach out to the patient instead of waiting until he goes to the ED.' It's helped us manage rising-risk patients who might not have perceived a need for a care management team before."

# absolute reduction in A1C (n=111) Vice President of Clinical Programs at



#### **Reducing Emergency Room Visits by Nearly Half**

Each of the alerts was an opportunity for proactive outreach to the patients who needed it most. This improved patients' clinical outcomes and reduced ED visits for patients with chronic conditions.



Diabetes

Heart Failure

congestive heart failure ED visits COPD

reduction in COPD ED visits (n=214)



-14.75 mmHa

= 100 patients

-7.55 mmHg Average change in dBP

#### Esse Lowered PMPM Costs by More Than \$120, Sustained for 18 Months

Improved clinical outcomes led to over three million dollars in savings.

All Claims Analysis: Financial Savings (p = 0.017)

reduction in total

\$35.46 \$31.31 \$15 Pre-CareSignal Post-CareSignal

- Carla Beckerle

Esse Health

# Four-year, 30K patient claims study

>30,000 Patients Enrolled

**16 Programs** 

**2.9 Million Proactive Touchpoints** 

80k PRO Alerts



# Universally Decreases Avoidable Utilization

>30,000 Patients Enrolled

**16 Programs** 

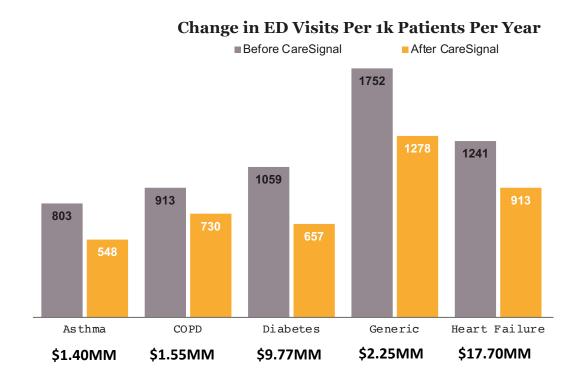
2.9 Million Proactive Touchpoints

80k PRO Alerts

292 ED Visits Avoided per 1k Patients Annually

\$143 Reduction PMPM with CareSignal

-14.25% Overall Rate of Cost Reduction





# **Total Cost Reduction: \$32.7 Million**

>30,000 Patients Enrolled

**16 Programs** 

2.9 Million Proactive Touchpoints

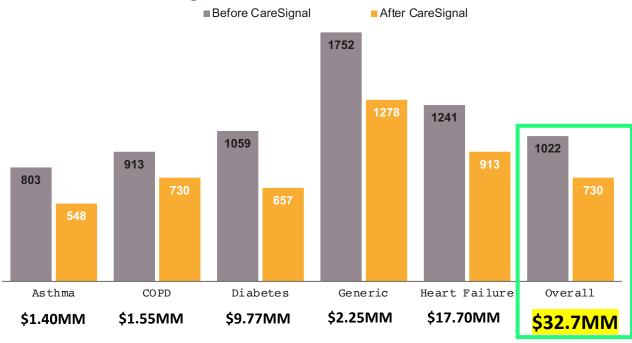
80k PRO Alerts

292 ED Visits Avoided per 1k Patients Annually

\$143 Reduction PMPM with CareSignal

-14.25% Overall Rate of Cost Reduction

#### Change in ED Visits Per 1k Patients Per Year



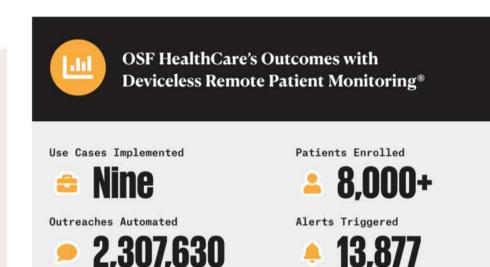




The strategic payer benefit that OSF HealthCare brings is being the trusted healthcare provider, partnering with companies such as CareSignal that bring technology that is easy to use, and combined with our clinical expertise, we can achieve really great outcomes. Digital health is progressing and we are pivoting constantly, and having partners pivoting with you is essential."



Abby Lotz MSN, RN VP, Digital Care CNO, Digital Health OSF OnCall



- CareSignal programs
- Hypertension
- · Diabetes Mellitus
- · COPD
- · CHF
- · Vital Signs
- Asthma
- · Medication-Tracking
- COVID Staff Support
- COVID Companion

#### **OSF HealthCare's Results**

**♦** Improved Chronic Disease Outcomes

CHF

**74%** 

of High-Risk Patients Improved Condition **COPD** 

**83%** 

of High-Risk Patients Improved Condition Diabetes

2.04%

Average Reduction in A1c for Diabetes

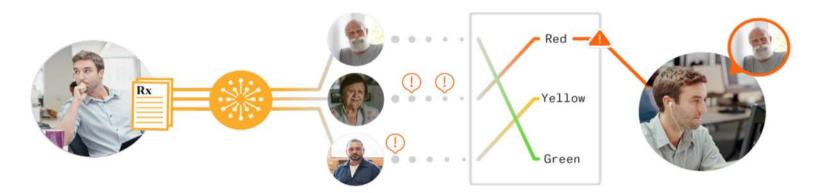
Hypertension

14.07<sub>mmHg</sub>

Average Decrease in SBP for Baselines >150mmHg



formerly known as MCPN



#### STRIDE Care Manager

sends CareSignal's enrollment team a list of eligible patients.

#### CareSignal **Enrollment Team**

manually reaches out to educate and enroll patients into the program.

#### **Patients**

answer prompts on the phone, sending in clinically relevant data.

#### CareSignal

categorizes at-risk individuals and triggers alerts to STRIDE Care Manager.

#### STRIDE Care Manager

responds with phone call or follow-up appointment.

"CareSignal helps us engage hard-to-reach patients and see which patients are alerting, and sometimes, we find that they haven't been refilling their meds or haven't been to the clinic for over a year, and their blood pressure or blood sugar is out of control. CareSignal gives us way more visibility into our patient populations and allows us to reach out to patients and help."

- Stephanie Campbell, RN, director of nursing at STRIDE Community Health

Hypertension engagement:

at 3 months

at 6 months

Diabetes engagement:

at 3 months

at 6 months

"I have more control with my diabetes, and it helps me remember to take my blood sugar every day."

"It brings closeness between STRIDE and its patients."





Sample PHQ-9 Messages for Depression Scale: 0 = not at all, 3 = almost daily

How often have you felt tired or had little energy? Rate 0 to 3.

How often have you had trouble concentrating? Rate 0 to 3.

3

3

Our Care Managers get alerts if members report a PHQ-9 score > 15, low mood, or thoughts of self-harm. Read Member Story

"CareSignal enables us to interact with our members remotely and intelligently. With the CareSignal dashboard, we know which members are managing their health well and who is struggling. Our Care Managers reach out promptly to those members in need, allowing us to improve health outcomes and efficiently use the expertise of our clinicians."

#### Jeff Carter

Manager of Utilization Review, WEA Trust

#### WEA Trust and CareSignal engage members and improve outcomes

Industry-Leading Engagement

**75%** 

and respond to CareSignal for at least 6 months Depression

health

2in3
members reported improved mental

Hypertension

10.52<sub>mmHg</sub>

average drop in sBP for members with baseline 140-160 mmHg sBP COPD

100%
of respondents reported improved communication with WEA Trust



RPM Platform Programs and Dashboard-

#### Figure 1 **Proactive Monitoring**

How is your breathing today compared to a normal day?

- 1: Better
- 2: Breathing is the same
- 3: Worse

Reply 1, 2, or 3.

Figure 2 **Risk Stratification** 



CCP Care Team

#### Figure 3 **Triaged Outreach**

Real-time Alerts Immediate Outreach





Rising-Risk Active Monitoring

Low-Risk Passive Monitoring



**End-to-End Enrollment Tailored to CCP Members Covered by Medicaid** 

Awareness

**Provider Materials** 



**Mailer Campaigns** 



**Text Message Blasts** 



Self-Enrollment Portal

Enrollment



**Enrollment Calls** 





Post-Enrollment

**Program Materials** 

Follow Chloe's member journey on next page.

Partnership At-a-Glance

ED Visits Averted for Engaged Asthma Members



Average Decrease in HbA1c for Engaged Diabetes Members



Engaged Hypertension Members Maintained or Brought to Control < 140 sBP / < 90 dBP



Use Cases Implemented

#### Asthma, Diabetes, **Hypertension**

Members Engaged



Outreaches Automated



Actionable Alerts Triggered





#### **CareSignal Enables Timely Response to Urgent Needs**

"There have now been several occasions where a CareSignal alert has been particularly timely. Our nurse recently responded to an alert to find that the consumer was indeed at high risk due to active suicidality. By working together, the consumer and nurse were able to make arrangements for treatment, and made a plan to stay safe in the interim".

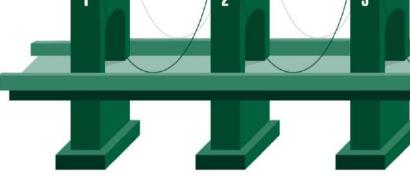
Lindy Whitlow, RN, BSN Director of Nursing and Care Coordination Supervisor, Andrews Center

With CareSignal, the Andrews Center is able to monitor more consumers remotely than it would be able to do with staff alone. "CareSignal helps extend the capabilities of our staff," said Mangum, "to have a staff member engage 300 consumers would be more than one FTE."

The regular outreaches, even just a text message, helps keep consumers engaged - they perceive a more caring environment where they're not just a number. And it's impossible to do this kind of outreach with staff alone."



Becki Mangum Practice Director Andrews Center





Free for consumers. No data. text, or minute plans needed.

#### Low Complexity

No websites to visit or passwords to remember. Instead, automated text messages or calls come to the consumer on their current phone.

#### Minimal Tech-Literacy Needed

No Bluetooth or WiFi to sync, no setup required.

#### Minimal Health-Literacy Needed

Messages are short and content is written at a 4th grade reading level.

#### **Alerts for Mental Health Challenges**

scores or suicidal Copyright CareSign ideation identified

instances of high PHQ-9

#### Improvement in Medication Compliance at 6 Months

(56-66%) CMS Antidepressant Medication Management quality measure

#### **Depression Remission** (PHQ-9 < 5) at 12 Months

Bridging the Digital Divide

of depression consumers reduced their PHQ-9 score by 4.6 pts on average

This is Jamie.



We help care managers like Jamie improve patient care *while* reducing workload.

Experience how automated, evidence-based SMS and IVR interventions enable Jamie to improve outcomes for any of her patients:









This is Jamie.



We help care managers like Jamie improve patient care while reducing

# try.caresignal.health











#### Stop by our VBCExhibitHall.com Virtual Booth



Visit the CareJourney exhibit booth



# Contact Us

Blake Marggraff blake@caresignal.health

Shelley Davis sdavis@lightbeamhealth.com

Garrett Schmitt
<a href="mailto:gschmitt@TheExhibitHalls.com">gschmitt@TheExhibitHalls.com</a>

# A Perfect Storm: Increasing At-Risk Contract Lives & Decreasing Nursing Availability

# Building a Scalable Model for VBC

Blake Marggraff | CEO, CareSignal – a Lightbeam Company | blake@caresignal.health

Shelley Davis | VP Clinical Strategy, Lightbeam Health Solutions | sdavis@lightbeamhealth.com

#### **Automated Post-Discharge Outreach Helps Prevent Readmissions**

One-third of 30-day readmissions occur in the first 7 days post-discharge

# Patients need support to start the day they are discharged

Q 2-24 Hours
Patients Enrolled Same or Next Day

**30 Days**Post-Discharge Monitoring Program

Programs Continue Beyond Post-Discharge Monitoring



Linda Jenkins 46, Patient



**Enroll Patients** 

Patient is CareSignal Engagement Discharged Specialists



Patient gets

Epic EHR

"FYI Flag"

**Enrollment Call** 

within 2-24 HR

9



Enrollment Pa Calls Per En

Total Patients Enrolled

in Post-Discharge Program

57

t Patients - Enrolled Per Day How are you feeling compared to yesterday? Reply 1 if feeling better, 2 if feeling the same, or 3 if feeling worse.



Thanks, someone will contact you soon. If you want to speak sooner, call us at 555-555-5555. If it's a true medical emergency, please call 911.

of Patients in Post-Discharge
Program Alert in First 7 Days



Linda enrolled in another relevant program after Post-Discharge

General Medical

9,477

Patients Enrolled in General Medical

Condition-Specific

1,059

Patients Enrolled in Condition-Specific

Daily Discharge Lists > Fast Enrollment >

**Quick Connection to Care Team** 

Continuation of Support

