Making Healthcare Utilization Smart

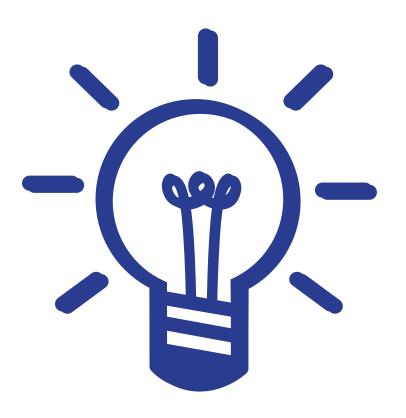
with Artificial Intelligence

Learning Objectives

• Defining artificial intelligence and related topics, and their relation to utilization review.

• Using AI to improve nurse and clinician workloads, refocusing attention on patient.

 Understanding how the payer-provider relationship is changing through technology.





Heather Bassett, MD
Chief Medical Officer
XSOLIS



Tonya Harrison, RN, BSN, MHA
Director of Clinical Care Management
Atrium Health



Sherri Ernst, RN, BSN, MBA
Revenue Integrity & UM Officer
Covenant Health



Heather Bassett, MD Chief Medical Officer XSOLIS

Background

- Dr. Heather Bassett has served as Chief Medical Officer since January 2013.
- She developed the real-time predictive analytics which drive XSOLIS' technology.
- She received her bachelor's from Carnegie Mellon and her Doctor of Medicine from the University of Texas Medical Branch, completed her residency in Internal Medicine at Vanderbilt Medical Center.



Tonya Harrison, RN, BSN, MHA

Director of Clinical Care Management Atrium Health

Background

- Clinical background includes two decades as an RN and over 17 years' experience in case management,
- She is a certified case manager and a certified InterQual instructor.
- She received her master's in health administration from Pfeiffer University.



Sherri Ernst, RN, BSN, MBA

Revenue Integrity & UM Officer

Covenant Health

Background

- Clinical background that includes stints as an RN and NICU nurse, in addition to several years of consulting in the revenue cycle space.
- Sherri was tasked with leading the charge in transitioning Covenant to a centralized UR team.
- Leads a team that now includes almost 60
 FTEs and impacts utilization review at
 Covenant Health's 9 acute care facilities in
 East Tennessee.

Utilization Review: Current State

Very manual process

Administrative burden

Limited, task-driven technology

Decisions directly tied to revenue



What's the result?

1 Inefficient processes

Strained relationships between payers and providers

3 Siloed data in healthcare



This is where AI can help

But what IS artificial intelligence?

What is Artificial Intelligence?

The theory and development of computer programs to do specific tasks by processing large amounts of data, recognizing patterns in data and learning from itself.

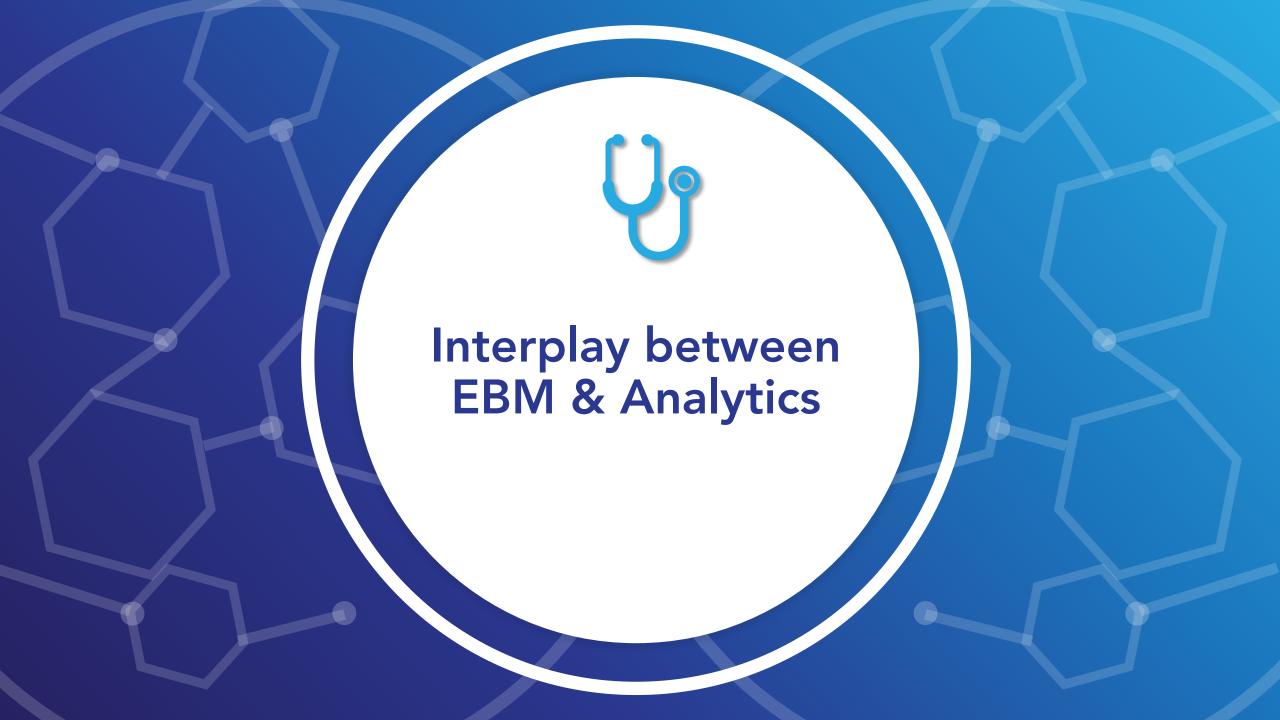
Technology augments, not replaces

Al in Healthcare

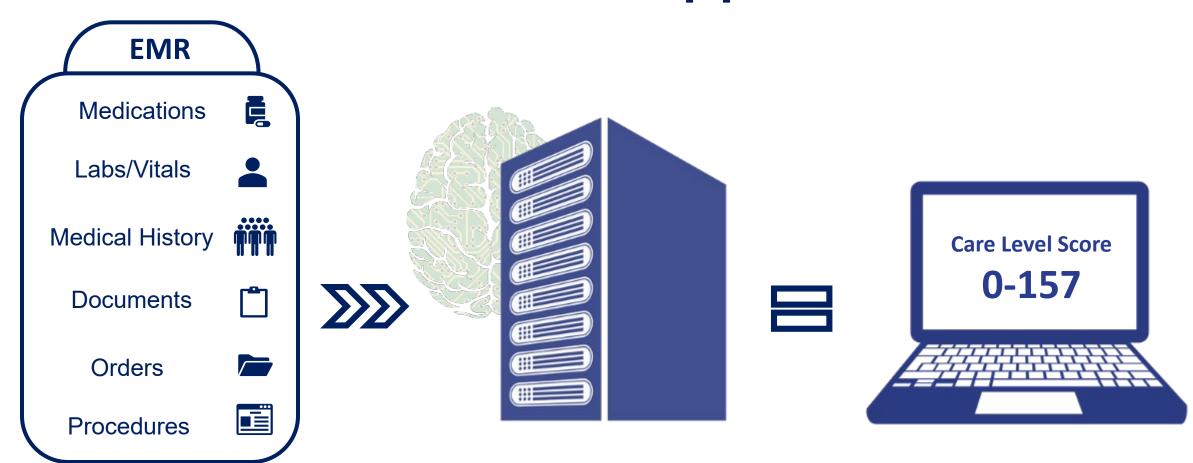
Al can be used in disciplines like radiology and imaging to identify patterns and detect tiny changes.



Al in Action: Utilization Review



The XSOLIS Approach



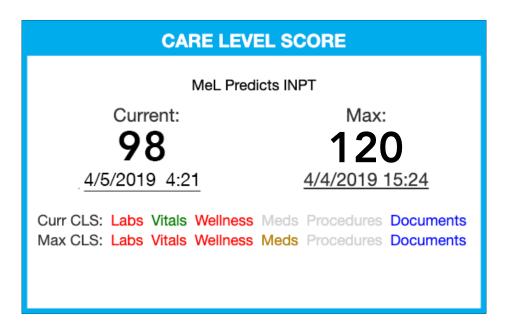
Clinical & Financial DataDirectly from Your EMR

Our Real-time, Predictive Analytics
Powered by Artificial Intelligence

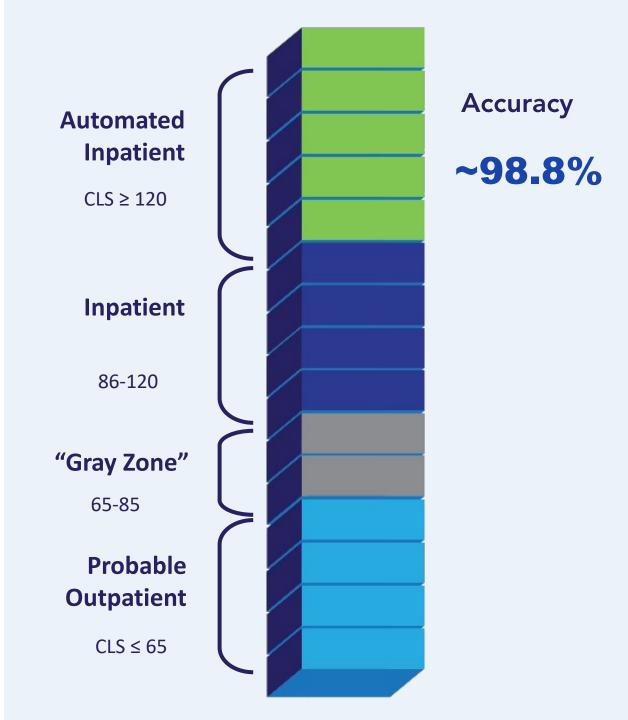
Actionable Insight into Risk At Users' Fingertips, 24/7

Care Level Score

CLS identifies likelihood of inpatient status for each patient in real time, 24/7.



example data



Cortex: One platform for payers and providers

1

Prioritize & Stratify

In real-time, Cortex helps UR nurses identify which cases are in the wrong status and which cases are most timesensitive for review.

2

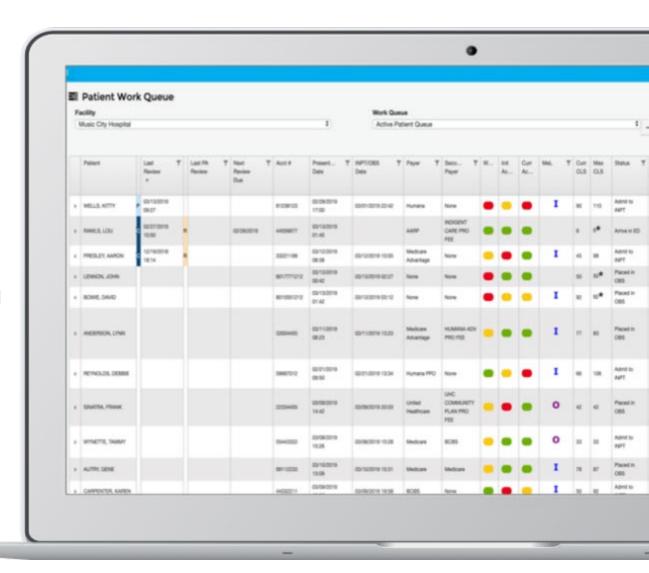
Automate Case Reviews

The patient dashboard cuts through the "noise" of excess data in the EMR to review key information related to medical necessity.

3

Communication between payers and providers

Using a "visit synopsis," UR nurses can streamline workflow, save time, and improve the ability to communicate medical necessity to payers



The Journey towards Smart UM

What is it? How can I get there too?



Atrium Health

Headquartered in Charlotte, NC, Atrium Health is one of the leading healthcare organizations in the Southeast.

Atrium Health by the numbers:

- 10 acute-care hospitals
- more than 7,600 licensed beds
- nearly 60,000 employees
- almost 12 million annual patient interactions

Why this UM model?



Manage denials related to medical necessity



w/ 2 MN rule, put extended obs patients "on someone's radar"



Help nurses work to top of license – what tasks require an RN?

| Challenges

Traditional UM

- Two Midnight Rule
 Considerations & Constraints
- Doing the same things, with fewer staff & resources
- Manual, time-consuming reviews & processes

COP/Medicare Guidelines

- Admission based on Severity of Illness and Intensity of Service
- Ambiguity around clinical guidelines
- Well Documented UM Plan

157,000 Total Atrium Inpatient Population*

Atrium Medicare Population

* Volume based on core metro hospital group of 12 hospitals.

20-30% are Medicare Beneficiaries

Up to 36% of Atrium's Medicare Patients Eligible for Smart Review

Undertaking Due Diligence

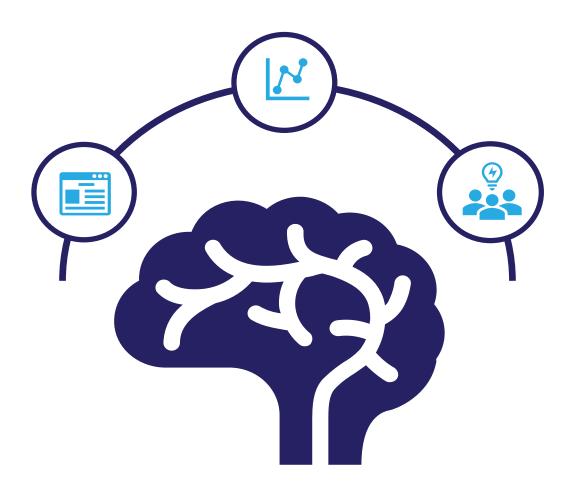
How did you first envision the approach?

• What considerations did you face when actualizing a new and unfamiliar model?

Conditions of Participation

- Must have a well documented/approved UR plan "It should also establish
 procedures for the review of medical necessity of admissions, the
 appropriateness of the setting, the medical necessity of extended stays and the
 medical necessity of professional services" COP §482.30
- For Medicare (and a majority of commercial payer contracts), no one screening tool is required "While utilization review (UR) committees may continue to use commercial screening tools to help evaluate the inpatient admission decision, the tools are not binding on the hospital, CMS or its review contractors." CMS 2 MN IP Admission Guidance
- Must assess "the need for and duration of care based on complex medical factors such as history and comorbidities, the severity of signs and symptoms, current medical needs, and the risk of an adverse event, which must be clearly documented." – CMS 2 MN IP Admission Guidance

Considerations





Compliance

- Conditions of Participation
- Final discharge status
- Does this approach meet regulatory requirements?



Data

- Building upon existing XSOLIS technology
- Retrospective intake of claims information
- At what point is the real-time review actionable?



UM Committee Buy-in

- Leadership sign-off
- Comfort range for accuracy
- Integrating into UM training and methodology

What is a Smart Review?

The Two-Step Smart Review

For any cases with CLS >120, only two touches are required:



Look at record to verify there is an order in the chart



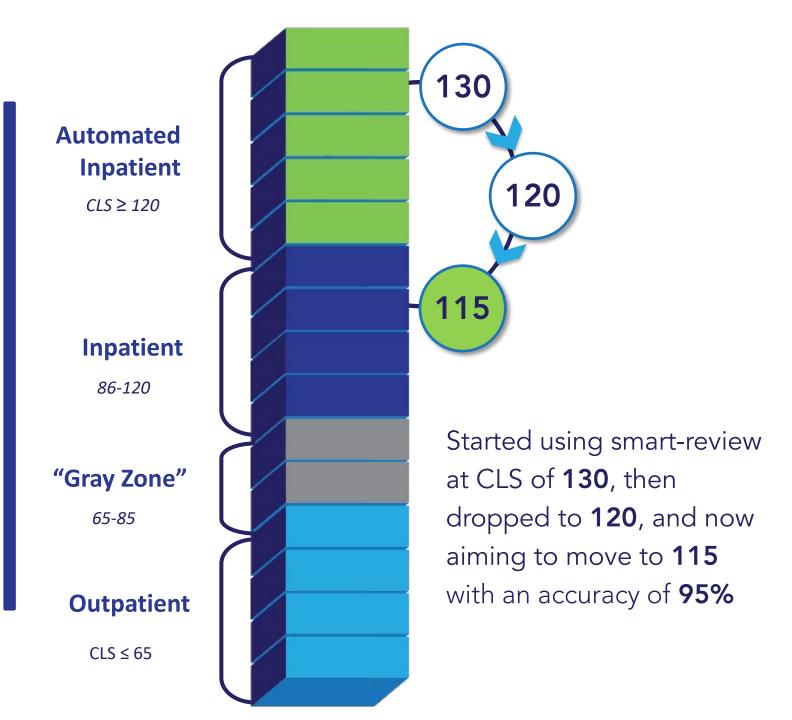
Verify that the payer qualifies

Payers currently included:

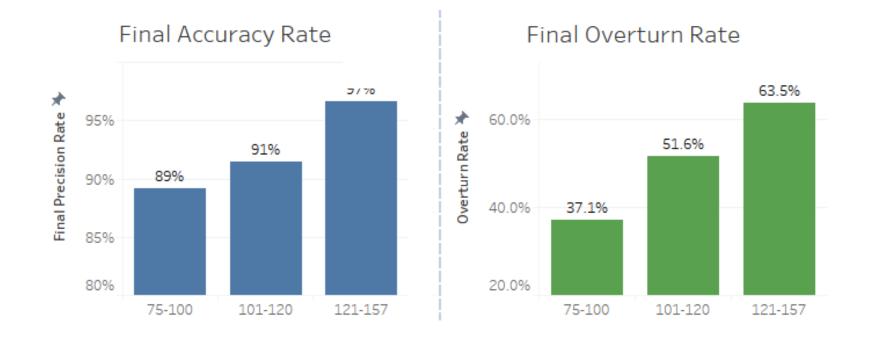
- Medicare, Medicaid,
- Select commercial plans
- Medicare Advantage plans which have EMR access

What's the Right Score?

- How did you implement the smart-review function?
- Did you do any compliance audits?
- •Did you update your UM plan? If so, how?



Smart review doesn't replace smart nurses



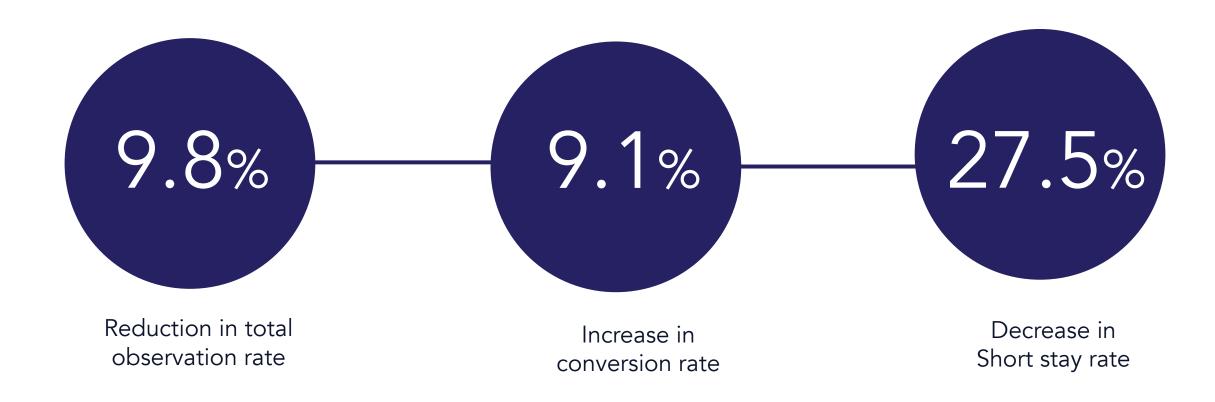
CLS Accuracy Analysis

Outcomes

- Has this approach made staff more efficient?
- How has Smart Review impacted workflow?
- How has it impacted compliance?



Partnership Results



1.6 efficiency gain per FTE

"Rip off the Band-aid — use Cortex exclusively"

— Tonya Harrison

Reframing the payer-provider relationship

Covenant Health is paving the way for smart collaboration



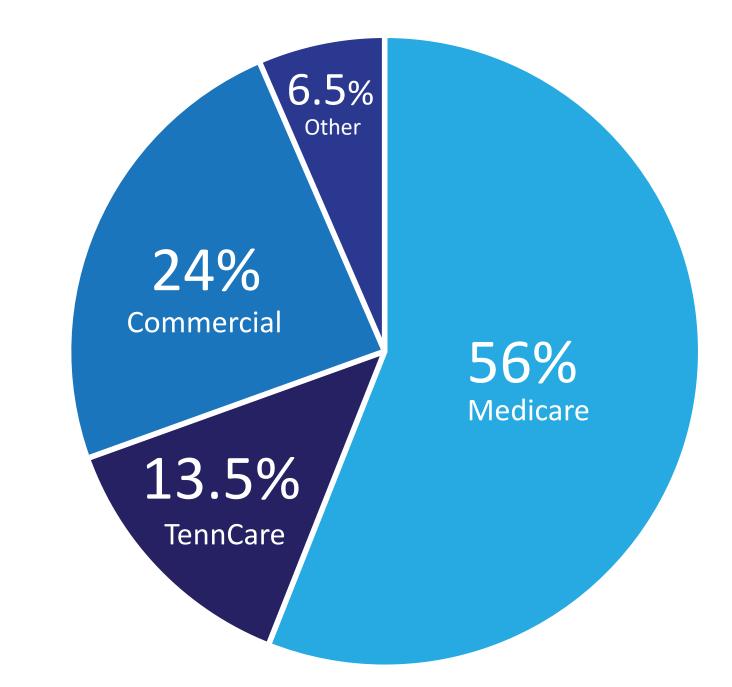
Covenant Health

Headquartered in Knoxville, TN, Covenant Health is a communityowned, not-for-profit healthcare system and the area's largest employer.

Covenant by the numbers:

- 9 acute care hospitals
- 1,500 affiliated physicians
- More than 10,000 employees

Covenant Health Payer Mix





Sherri Ernst,
RN, BSN, MBA
Revenue Integrity & UM
Officer
Covenant Health

Centralization Goals

- Processes are efficient.
- Processes bring value to our organization.
- Equity in our workload.
- Continue to improve communication efforts.

State of the Industry: The 3 V's



revenue protection for sustained operations; shift towards outpatient reimbursement



Ability to perform payer notifications



Manage the phones, man the faxes



Performing Clinical Reviews

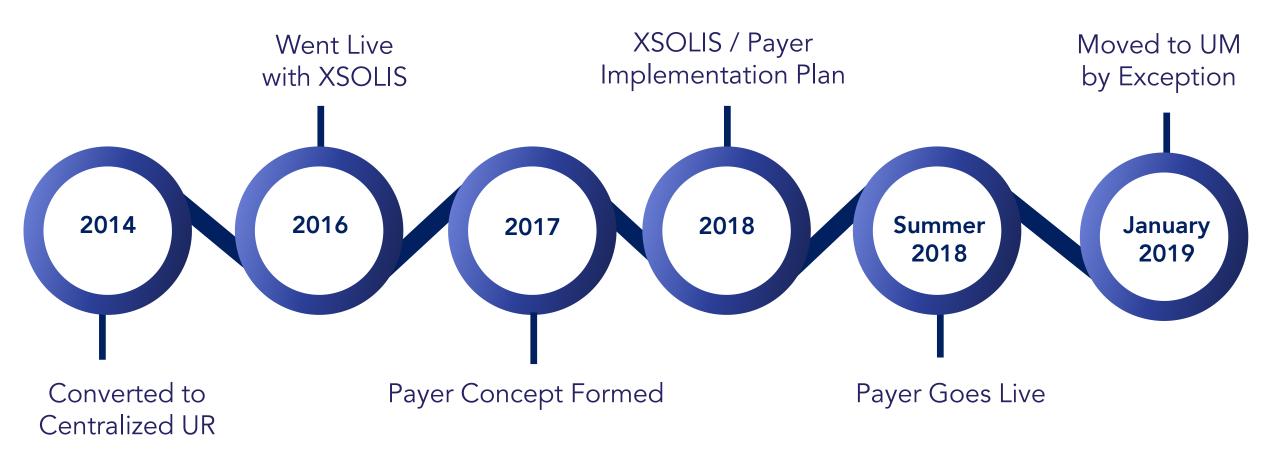


Review incorrect patient status



Manually performing observation calculations

From Idea to Solution



Aligning the Vision: Covenant & Payer

Communicate. Escalate. Collaborate.

Value for Providers

- Supports accurate status decisions
- Analyzes the clinical merit of each case automatically
- Increases efficiency,
 productivity and throughput
- Helps in managingObs and Conversion Rates
- Identifies trends on an individual and aggregate level



Common framework of data

Value for Payers

- Allows payer staff to review and approve cases concurrently
- Offers the same analytics and insight to payer nursing staff
- Reduces administrative burden of managing reviews and appeals
- Ensures access to the right clinical data

How does the relationship evolve?

- Broader access across payer teams/functions
- Leverage more connectivity and data
- Move to reviews "by exception"

Could you imagine a



When you could exchange case information with each payer within a common platform?



When a nurse or physician from a payer accesses your review and all relevant information?



When reviews and authorizations for a subset of cases can be automated?

"The most compelling thing about this venture [with the payer] was the relationship.

When I look back to where we were from where we are today, I am very happy to say we're collaborating."

— Sherri, October 2018

Partnership Results: Covenant



Appropriate reduction in observation rate

Increase in average monthly conversions

Decrease in average monthly medical necessity denials

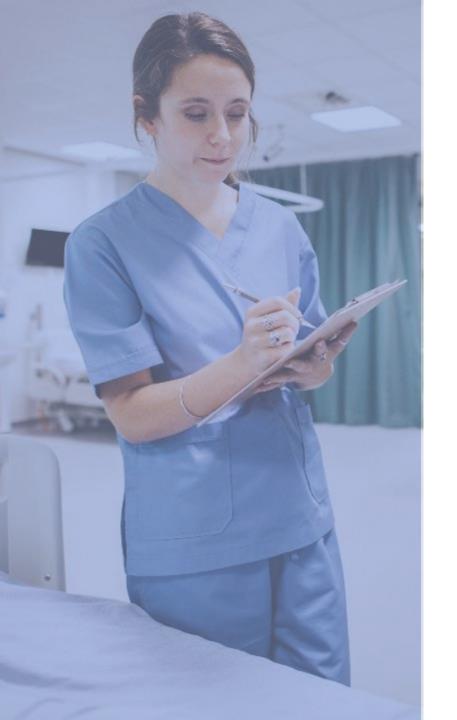
"We all need to be asking for this"

Start planting the seed now

- Payer alignment is possible, and preferable
- Challenge the status-quo, always ask "what if?"
- Get your regional payer rep(s) on board
- Journey begins with internal buy-in

2019 & beyond...a new approach to UM

8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | 8 / A | A | A



TAKEAWAY CHECKLIST



Reach out to a peer who is using XSOLIS



Schedule your personalized demo with our team



Get your payer reps engaged in your journey towards smarter utilization

Thank you for attending!

We'll be in touch soon.