March 13th QHOC Presentation

Pre-survey:

Today we are going to be talking metrics, how they are an integral component of your performance improvement projects (PIP), and how you can incorporate them into your reporting.

This anonymous survey will help us understand your baseline understanding and use of metrics.

1.	The PIP reporting template has a How often do you complete each improvement date, benchmark,	n component of tha	t section (Basel	ine, baseline data, impro	•
	NeverSon	netimes	Usually	Always	
2.	The PIP reporting template asks rate your knowledge about what			•	orts. How would you
	Not very knowledgeable	_Somewhat knowle	dgeable	Knowledgeable	Very Knowledgeable
3.	The last page of the PIP reportin improvement plan and the relate following in previous reports:	•	•		•
	 Run Charts 	No	Yes		
	 Driver Diagram 	No	Yes		
	 Measurement Plan 	No	Yes		

QHOC - EVALUATION SURVEY OF OPIP PRESENTATION

Thank you for attending the OPIP Presentation at the QHOC title Metrics 101 – Way to Integrate Measures Into Your Performance Improvement Project. Please share your feedback, which we will use to help plan future events.

1. Please assess the overall value of the presentation to ensuring that metrics are a component of your performance improvement project reporting.					
Very valuable					
Valuable					
Neutral					
Limited value					
Not valuable					
2. Please rate your knowledge of the difference between outcome, process and balance measures.					
Not very knowledgeable Somewhat knowledgeable Knowledgeable Very Knowledgeab					
3. As a result of my participation in this presentation, I plan to (select all that apply):					
Use driver diagram or logic model to map out my performance improvement project Identify a family or set of metrics to gauge my PIP efforts that includes an outcome, process and balance measure					
Collect qualitative and quantitative information about the interventions we collect					
Other (please specify)					
None of the above					
4. Within our small work group session, how did you improve your measurement plan related to the Opioid Prescribing PIP: (If you feel you did not improve your measurement work plan, identify barriers and supports you need)					
5. What was the most helpful aspect of the presentation and work session today?					

6. How could the presentation or support provided be improved?
7. What topics remain unclear? What additional assistance do you need?
8. Additional comments:

Measurement 101: Why Metrics Are an Integral Part of Improvement & How to Incorporate Them Into Your PIP Reporting Strategies

Colleen Reuland
Director
Oregon Pediatric Improvement Partnership
March 13th, 2017



Complete Your Pre-Survey In Your Packet

Pre-survey:
Today we are going to be talking metrics, how they are an integral component of your performance improvement projects (PIP), and how you can incorporate them into your reporting.
This anonymous survey will help us understand your baseline understanding and use of metrics.
The PIP reporting template has a section focused on clarifying the outcome measures and data collection plan. How often do you complete each component of that section (Baseline, baseline data, improvement target, improvement date, benchmark, national standard, frequency of data collection)? Never Sometimes Usually Always
2. The PIP reporting template asks you to identify process and balance measures for your efforts. How would you rate your knowledge about what a process and balance measure is?
Not very knowledgeableSomewhat knowledgeableKnowledgeableVery Knowledgeable
3. The last page of the PIP reporting template notes that you can attach documents that describe your improvement plan and the related metrics. Please indicate whether you have created and provided the following in previous reports: Pun Charts NoYes Driver Diagram NoYes Measurement Plan NoYes
3110



Agenda

- Background on OPIP and our experience with quality measurement and improvement
- Setting the Context: Why and how are metrics an integral component of improvement efforts?
- Key factors to consider in designing a measurement plan as part of your performance improvement project
 - General parameters
 - Types of metrics to consider, importance of a "family" or set of metrics
 - Operationalizing metrics
 - Reporting metrics
- Pulling it all together value of driver diagrams/logic models to ensure alignment of efforts with the aim
- Example of how this would be applied for a PIP focused on the Adolescent Well-Visit Measure (AWV)
- Applying what was discussed today:
 - Small Table Exercise to Specify Metrics Related to Your QI Efforts Focused on Opioid Safety: Reducing Prescribing of High Morphine Equivalent Doses
- Complete the Evaluation Survey



Oregon Pediatric Improvement Partnership (OPIP)

- OPIP supports a meaningful, long-term collaboration of stakeholders invested in child health care quality, with the common purpose of improving the health of the children and youth of Oregon.
- OPIP staff and projects focus on building health and improving outcomes for children and youth by:
 - 1) Collaborating in quality measurement and improvement activities;
 - 2) Supporting evidence-guided quality activities;
 - 3) Incorporating the patient and family voice into quality efforts; and
 - 4) Informing policies that support optimal health and development
- OPIP uses a population based approach starting with the child/family
 - Work with the multiple kinds of providers who serve children
- Primarily contract and grant funded
 - TA Bank provider for CCOs
 - External quality review-like organization, facilitated a PIP with 8 MCOs
- Based out of Oregon Health & Science University (OHSU), Pediatrics Department



My Primary Objective- To Be Helpful

I know there is a wide range of experience in the room!

- For some of you this may be the first time you have heard these things
- For others, this is a helpful review of concepts you already know and work with regularly
- Please ask questions as you have them, and let me know as you have topics you would like to discuss as we go- the intention here is for me to be helpful! Let me know how best to accomplish that

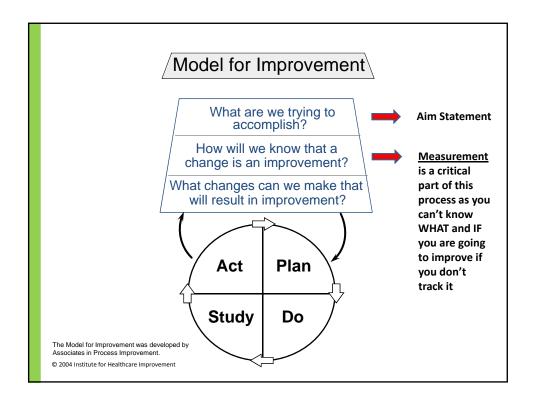


Metrics Are an Integral Part of Improvement

- Measurement is a critical piece of improvement, as it allows you as a quality improvement (QI) team to:
 - Understand current performance = Your Baseline Rate
 - Set goals for your future performance = Your Improvement Target
 - Monitor the effects of the changes you are making (your interventions) = Interim Data Collection (e.g. Quarterly data Collection, Frequency of Data Collection)

Words in **Blue** Map to PIP **Progress Reports**





OHA PIP Progress Report	
PIP Title:	CCO:
QI Lead:	QI Contact email:
Measurement Year ⊔ Quarter 1 ⊔ Quarter 2 ⊔ Quarter 3 ⊔ Quarter 4	
Team Sponsors (Key Personnel at Participating Organizations supporting the project):	
1 () 1 0 1 1 0 1 7 7	
What are we trying to accomplish?	
AIM Statement (description of desired improvement should be time-specific, measurable and	d include the target population):
Target Population (description of the specific population targeted by the project):	
$ \textbf{Problem Statement:} \ (\textit{description of the reasons for selecting this project-why is this project important members)}. \\$	ant, what data/analyses support prioritizing

Key Strategies OPIP Uses When Working with Partners to Create Effective Aim Statements

- Three components of an effective aim statement: what, how much, by when
- State the aim clearly
- Include numerical goals that are clearly tied to the <u>population</u> and <u>outcome</u> of focus
- · Avoid aim drift
- Be prepared to refocus the aim





Measures Are a Critical Part of a "SMART" Aim Statement

- Specific
 - Measureable
 - Achievable
 - Realistic
 - Time-Specific



Example: Immunizations

Initial AIM:

 Reduce the number of ALERT sheets received by the office by 50% within 12 months.

Second phase AIM:

 Increase 2-year-old immunization rates by 4% by June of 2010.



Developmental Screening

- To improve developmental disability and autism screening in pediatric practices, in accordance with AAP policy statements and Bright Futures guidelines.
- To improve physician understanding and utilization of standardized developmental screening tools.
- To educate pediatric physicians in proper documentation, coding, and billing.
- To improve provider knowledge of, and referral to, community resources, particularly Early Intervention.



Developmental Screening

Within 9 months of developmental screening implementation:

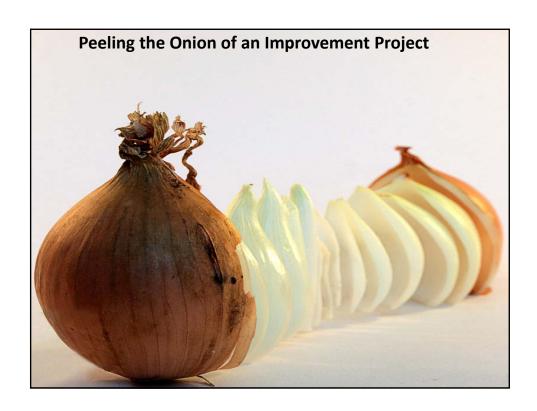
- ASQ will be routinely administered to 75% of 9, 18, and 24 month olds.
- MCHAT will be routinely administered to 75% of 18 and 24 month olds.



How will we know that a change is an improvement?

Measurement and data collection plan for expected outcome measures:

Outcome Measure	Baseline	Baseline	Improvement	Benchmark	National	Frequency of
	Measurement	date	Target and		Standard	data
			target date		(if applicable)	collection
Measure#1						
Measure#2						



Key Questions for Designing Improvement Strategies With Associated Metrics

Current
Outcomes
(Baseline
Rates)

(Baseline • What are the processes or activities that have impact on the outcomes? (DRIVERS)

 How are these processes currently being implemented? Is implementation stable and reliable?

- What interventions on the process will have an impact on the outcome? (PROCESS MEASURES)
- If this intervention is implemented, what impact will it have on other parts of the systems? (BALANCING Measures)

Desired
Outcomes
(Target
Rates)



Importance of Measurement Plan As You Design and Improvement Plan: Some Keys to Consider

- Each part of your improvement plan should measured and assessed relative to the outcome
- Value of "family" or set of metrics that provide information on the system as a whole, and the impact, or unintended impact, of improvement efforts. Three most common types of metrics:
 - Outcome
 - Process
 - Balancing
- Indicator vs Measure
 - Indicator is a count
 - Measure has numerator and denominator
 - Numerator: Did it happen
 - Denominator: Total it should have happened to



Types of Metrics to Gauge Improvement

Outcome

- Measure the results and system performance
- The end results of your improvement project
- Your target state

Process

- The individual workings of the system; the things you do
- Capture the changes your QI efforts make to the inputs or steps (DRIVERS) that contribute to the outcomes
- Sound process metrics ensure that the activities directly contribute to the outcomes
 - The WHO and the WHAT of your AIM Statement

Balance

- Assess other part of the systems that are related
- Ensures that if changes are made to one part of the system, it doesn't cause intended problems in another part of the system

Important Factors to Consider as You Operationalize Metrics

Get into the details

- Operational definition define each part, including scoring
- HOW data will be collected
- Sampling who is measured and how do you identify them
- Reporting how it will be visually shown

Value and importance of metrics that can give a sense of scale

- Counts (indicators)
 - Often count a numerator what happened, but not what should have happened, so it can sometimes be difficult to gauge impact on outcome
- Proportions or Percentages (measures)
 - o Numerator Who got it: Indicator of focus
 - Denominator Who should have received it: Population or Volume

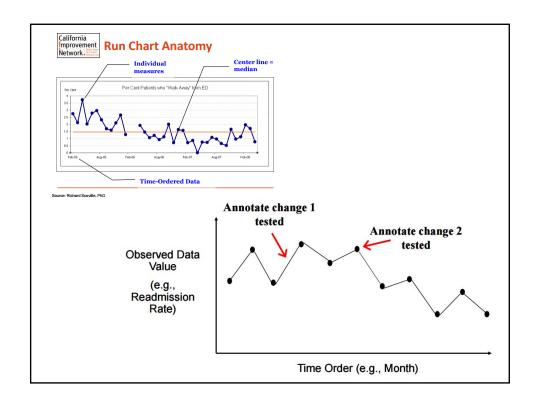


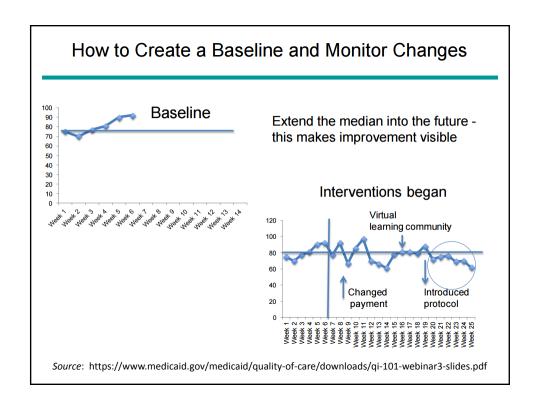
Important Factors to Consider As You Operationalize Metrics

- Examination and plotting data over time
 - Pre/Post Only show Baseline and Follow-up and no relation to when improvement efforts began
 - Run charts with annotations of when interventions implemented
- Tool for You:

http://www.ihi.org/resources/Pages/Tools/RunChart.aspx









Pulling It All Together

Aligning Efforts and Metrics to the Aim:
Using Driver Diagrams and Logic Models
in Planning and Implementation



OPIP

Tools That Can Help You Design Improvement Efforts that Aligned with the Aim and Sound Metrics

- 1. Driver Diagrams
- 2. Logic Model

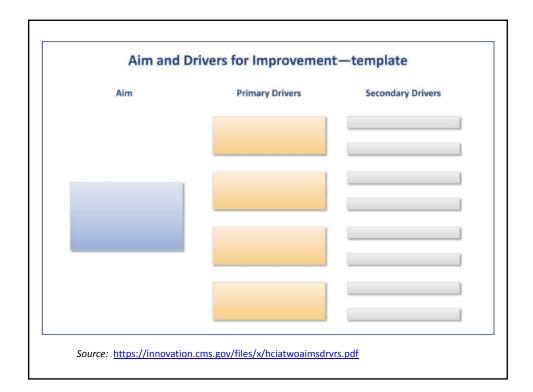


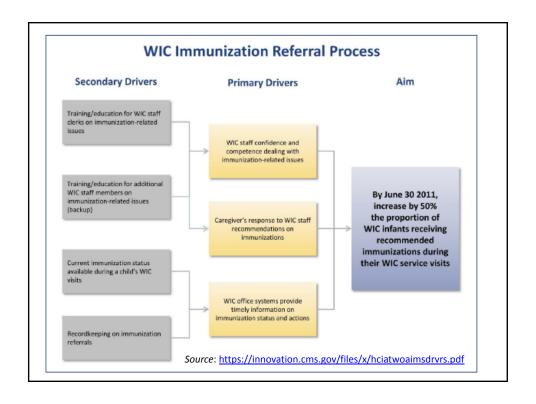
Tool #1: Driver Diagrams

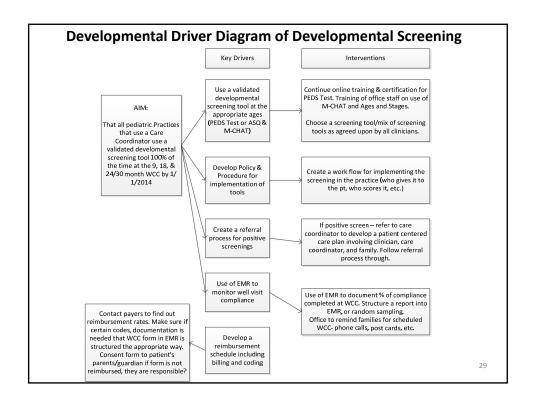
- Visual display of the improvement efforts
- Causal pathway from improvement efforts to the AIM, requires you to think of the connection
- The primary drivers, sometimes referred to as "key drivers," are the system components or factors which contribute directly to achieving the aim.
 - Secondary drivers are **actions**, **interventions** necessary to achieve the primary drivers.
 - Secondary drivers should be used to identify changes that can be tested in order to affect the primary drivers.
- Each driver should be able to be measured, and most drivers should align with specific process measures.

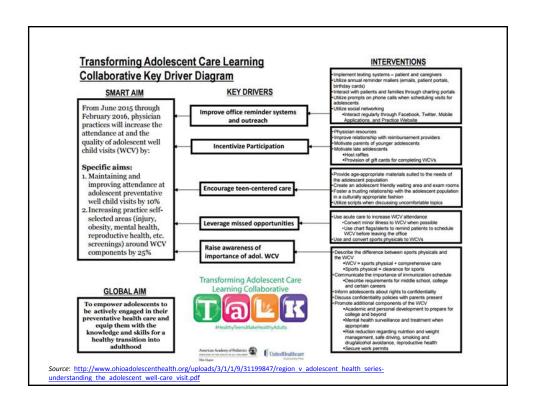
Source: https://innovation.cms.gov/files/x/hciatwoaimsdrvrs.pdf







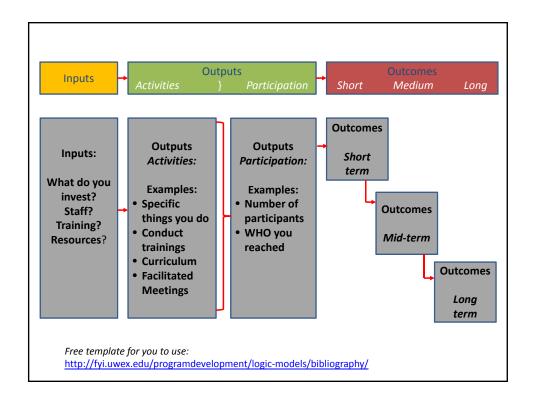




Tool #2: Logic Models

- Logic models illustrate how your specific activities are intended to produce particular results (your aim).
- Key Parts:
 - 1. Inputs resources invested
 - 2. Outputs- Specific activities
 - 3. Outcomes Results of each activity
- Visual diagram forces you to ensure that the boxes are connected and that the activities are directly linked to the proposed outcome
- Online resources:
 - http://www.wkkf.org/resource-directory/resource/2006/02/wk-kelloggfoundation-logic-model-development-guide
 - ✓ http://www.uwex.edu/ces/pdande/evaluation/evallogicmodelworksheets.html





Keys to Using These Models: Identify Specific Strategies Used to Achieve the Aim

- Remember: The aim clarifies what, how much, by when relative to the outcome
- In designing your improvement plan you are identifying
 - 1. Specific interventions you will implement
 - 2. For each of those activities, **metrics** that will help you gauge the impact of those activities
 - ✓ What was implemented?
 - ✓ For whom?
 - ✓ Relationship of the activity to the aim the specific WHAT, HOW MUCH, and BY WHEN



Metrics Demonstrating Intervention Effectiveness

Beyond outcome and process metrics noted, consider metrics of the specific intervention

1) Quantitative metrics

- Quantify your intervention
- o Involve numerical counts

Example: Number of clinics trained

2) Qualitative metrics

- o Often is the "story" behind the numbers
- o Interviews, and observing and recording behaviors
- Feedback from participants of impact. E.g. What are providers, families, and patients saying?

Example: Feedback obtained from attendees about the training about their perceptions of the impact the training will have; Notes from your improvement specialist site visit and their interviews with the clinic staff

Fictitious Example of a PIP Focused on Adolescent Well-Visit

From A Driver Diagram to Metrics



Fictitious Example of a CCO's PIP Driver Diagram

Primary Drivers

Interventions to Address Drivers

By January 2018, we will increase the AWV rate from 20% to 35% of continuously enrolled youth 12-21 receiving a well-child visit Primary Care Provider
Provision of
High-Quality Adolescent
Well-Child Care

Trainings to clinics on Bright Futures aligned well-visits

Convenient Access to Care at a SBHC

Training to SBHCs on well-visits, SBHC outreach to youth in school to access

Adolescent Knowledge about Well-Visits

Member education about importance of well-visits

OHA PIP Progress Report		
PIP Title:		cco:
QI Lead:		QI Contact email:
Measurement Year ⊔ 0	Quarter 1 ⊔ Quarter 2 ⊔ Quarter 3 ⊔ Quarter	4
eam Sponsors (Key Personnel	at Participating Organizations supporting the project):	
What are we trying to accomp	olish?	
AIM Statement (description of	desired improvement should be time-specific, measur	able and include the taraet population):
		ŭ , , ,
D., January 2010	he specific population targeted by the project):	
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we will increase the	he specific population targeted by the project): f the reasons for selecting this project – why is this projec	t important, what data/analyses support prioritizin
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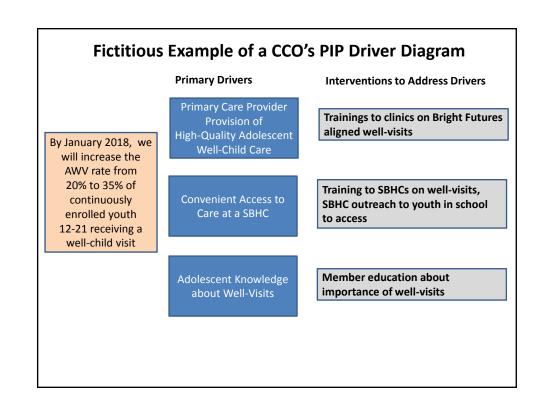
Outcome Measure	Baseline	Baseline	Improvement	Benchmark	National	Frequency of
	Measurement	date	Target and		Standard	data
			target date		(if applicable)	collection
Measure#1						
Measure#2						

Baseline Data: Rate for 16 Calendar Year
 Improvement Target: 35% by January 2017
 Benchmark: State Benchmark – 62.0%

• National Standard: National NCQA Rates

- Frequency of Data Collection:
 - Monthly Tracking of Well-Visits, Annotated Run Chart By Improvement Interventions. The LINE on the chart would show your well-visit rate, looking back across the year.
 - o Annotate charts to note when the interventions were implemented
 - 1. Training of clinics
 - 2. SBHC clinic engagement
 - 3. Member mailing

rocess Measures	Indicator of Success With Primary Driver:	Improvement Target and target date	Frequency of data collection
Clinic Level S	Screening Rates		
alancing Measures	Indicator of Success With Primary Driver:	Goal	Frequency of data
	Dilvei.		Concocion
Other Access	s Measures for Those Clinics, E.g.	Well-Child Rates for Yo	
	s Measures for Those Clinics, E.g.	Well-Child Rates for Yo	



Examples of Metrics to Gauge Improvement Interventions

Primary Drivers

Interventions to Address Drivers

Primary Care Provider Provision of High-Quality Adolescent Well-Child Care

Trainings to clinics on Bright Futures aligned well-visits

- Number of clinics trained (Quantitative)
- Number of adolescent members
 12-21 attributed to the clinics
- Monthly/Quarterly reporting of AWV rates for clinics. Annotated run chart of well-visit rates that notes when training occurred (Outcome)
- Assessment of well-child rates for young children in same clinic (Balance)
- Monthly site visit, report from clinics about barriers (Qualitative)

PROGRESS UPDATE

By January 2018, we

will increase the

adolescent well-visit

rate by 5%

Existing Interventions

Name of intervention (brief description)	Activities/steps this quarter (If no activities/steps in the past 3 months, please state)	Barriers in this quarter and how they were addressed	Qualitative and quantitative data that demonstrates intervention effectiveness (OK to reference process measures table)	Next steps for this intervention

Trainings to clinics on Bright Futures aligned well-visits

- Number of clinics trained (Quantitative)
- Number of adolescent members 12-21 attributed to the clinics
- Monthly/Quarterly reporting of AWV rates for clinics.
 Annotated run chart of well-visit rates that notes when training occurred (Outcome)
- Assessment of well-child rates for young children in same clinic (Balance)
- Monthly site visit, report from clinics about barriers (Qualitative)

Examples of Metrics to Gauge Improvement Interventions

Primary Drivers

Interventions to Address Drivers

By January 2018, we will increase the adolescent well-visit rate by 5% Convenient Access to Care at a SBHC

Training to SBHCS on well-visits, SBHC outreach to youth in school

- Number of SBHC engaged (Quantitative)
- Number of adolescent clients in zip code for the school
- Monthly/Quarterly reporting of increase in AWV by SBHC. Annotated run chart (Outcome)
- Assessment of well-child care rates in primary care clinics in region(Balance)

Examples of Metrics to Gauge Improvement Interventions

By January 2018, we will increase the adolescent well-visit rate by 5%

Adolescent Knowledge about Well-Visits

- Number of adolescents to whom a mailing was sent (Process)
- Proportion adolescents who received the education information (not returned)
- For adolescents who received a mailing, tracking on access of well-child care (Outcome)

Member education about importance of well-visits

Enough talking..... let's apply these models to your work

Exercise to Specify Metrics Related to Your QI Efforts Focused on Opioid Safety:
Reducing Prescribing of High Morphine Equivalent Doses



Aim	Primary Drivers You Have Identified to Prescribing of High Morphine Equivalent Doses	INTERVENTIONS WITHIN YOUR PIP
What, how much, by when		
What is your baseline?		
macio your sessions.		

Clarifying Measurement Plan

- Each part of your improvement plan should measured and assessed relative to the outcome
- Value of "family" or set of metrics that provide information on the system as a whole and the impact, or unintended impact, of improvement efforts. Three most common types of metrics:
 - Outcome
 - Process
 - Balancing



Key to Designing Improvement Strategies With Associated Metrics Current Desired **Outcomes** Outcomes (Baseline • What are the processes or activities that (Target Rates) have impact on the outcomes? (DRIVERS) Rates) · How are these processes currently being implemented? Is implementation stable and reliable? What interventions on the process will have an impact on the outcome? (PROCESS MEASURES) • If this intervention is implemented, what impact will it have on other parts of the systems? (BALANCING Measures) OPIP

Small Table Debrief

- What went well?
- What was tricky or hard to figure out? Where could we support you more?
- Sharing your brainstorming related to your opiod prescribing PIP:
 - Examples of outcome measures?
 - Examples of process measures?
 - Examples of balance measures?



Complete Your Evaluation Survey – THANK YOU!

AUC - EVALUATION SORV	EY OF OPIP PRESENTATION
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Display data collected in a	visual format such as an annoted run chart
Collect qualitative and qua	intitative information about the interventions we collect

