

Defining Measures of Success in Virtual Care

November 15, 12-1pm

[Recording link](#)

Agenda

Time	Topic	Facilitator(s)
10 min	Welcome and Background	Amanda Clarke <i>Safety Net Institute</i>
40 mins	Defining Measures of Success (participant discussion throughout)	Melissa Stratman Amanda Laramie Adrienne Mann <i>Coleman Associates</i>
5 min	Next Steps and Wrap-up	Amanda Clarke

Housekeeping



Rename yourself to include your name and organization



Feel free to speak up or chat in responses at any time



You're encouraged to turn on video for this peer group



This meeting is being recorded and will be posted online



Materials will be available at [SNI Link/Virtual Care](#)

Virtual Care in Public Healthcare Systems

- What does success look like? How will we know?
- How does virtual care align with other strategic priorities and initiatives?
- How do we bake in virtual care workflows and processes?
- What's the right mix of virtual care and in-person?
- Are leaders bought in? What's the ROI?



Reactive Virtual Care
driven by COVID-19

Proactive long-term
virtual care strategy

Virtual Care Maturity Framework

DIMENSIONS:

Leadership & Governance

Technology Platforms

Virtual Care Operations

Health Equity

CATEGORIES:

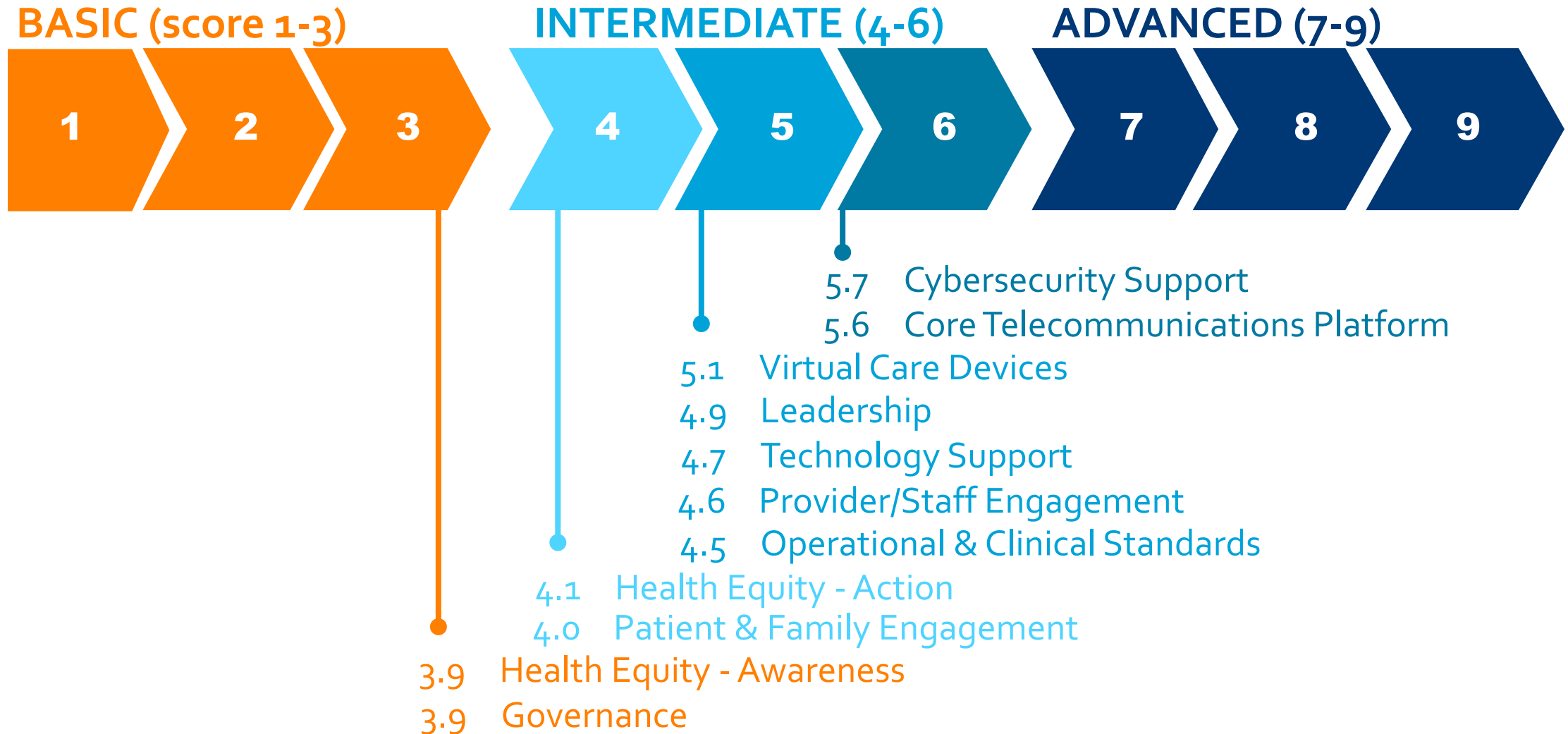
- Leadership
- Governance
- Core Telecommunications Platform
- Devices
- Technology
- Cybersecurity Support
- Operational and Clinical Standards
- Provider/Staff Engagement
- Patient/Family Engagement
- Awareness
- Action

Virtual Care Self-Assessment and Report

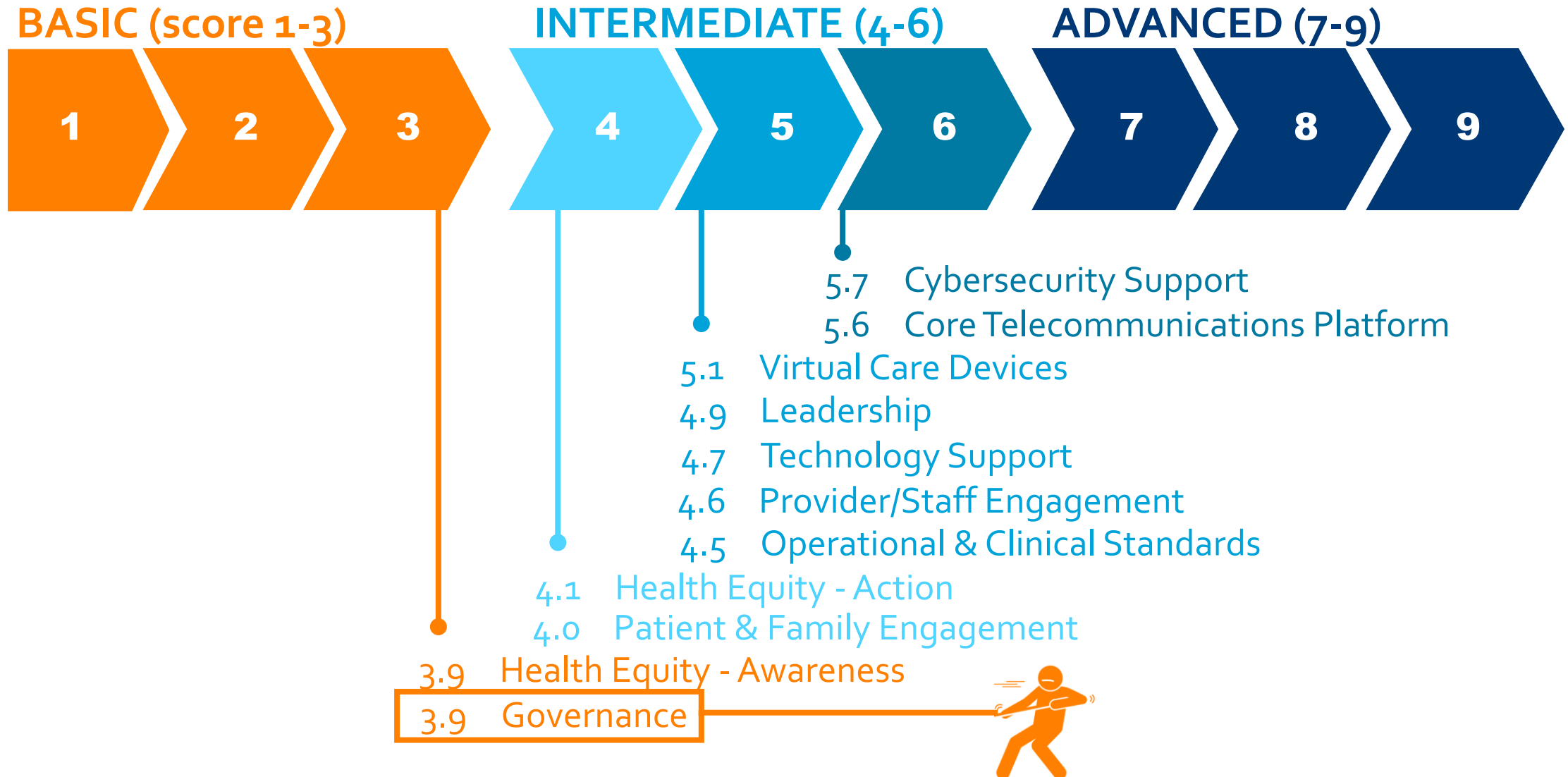
- Based on Virtual Care Maturity Framework
- Scoring Across Domains and Categories
 - Basic (1-3) → Intermediate (4-6) → Advanced (7-9)
- 14 PHS scored their progress along 10 categories of virtual care capabilities
- Findings compiled in a [report](#)
 - Exec Summary
 - Detailed Results

Capability Levels:			<u>Basic</u>
Self-Score Key:			1-3
Dimension	Category	Description	
Leadership and Governance	Leadership	To what degree have organizational leaders committed to immediate and long-term adoption of virtual care operations?	<ul style="list-style-type: none">• Leaders leverage virtual care as a short-term, tactical response to the pandemic.• Approaches to virtual care are locally defined and fragmented across departments.• Leaders rely on existing infrastructure and resources to address the shift to virtual care.
	Governance	To what degree has the organization committed to a permanent organization-wide virtual care governance/strategic oversight structure?	<ul style="list-style-type: none">• Oversight of virtual care falls to existing in-person care oversight processes.• Existing operational governance structures remain unchanged and there are no new operational or clinical quality oversight processes put in place specifically for virtual care processes.

Average Scores for Each Category



Average Scores for Each Category



SNI Support for PHS

Measuring Success in Virtual Care

3-part webinar series

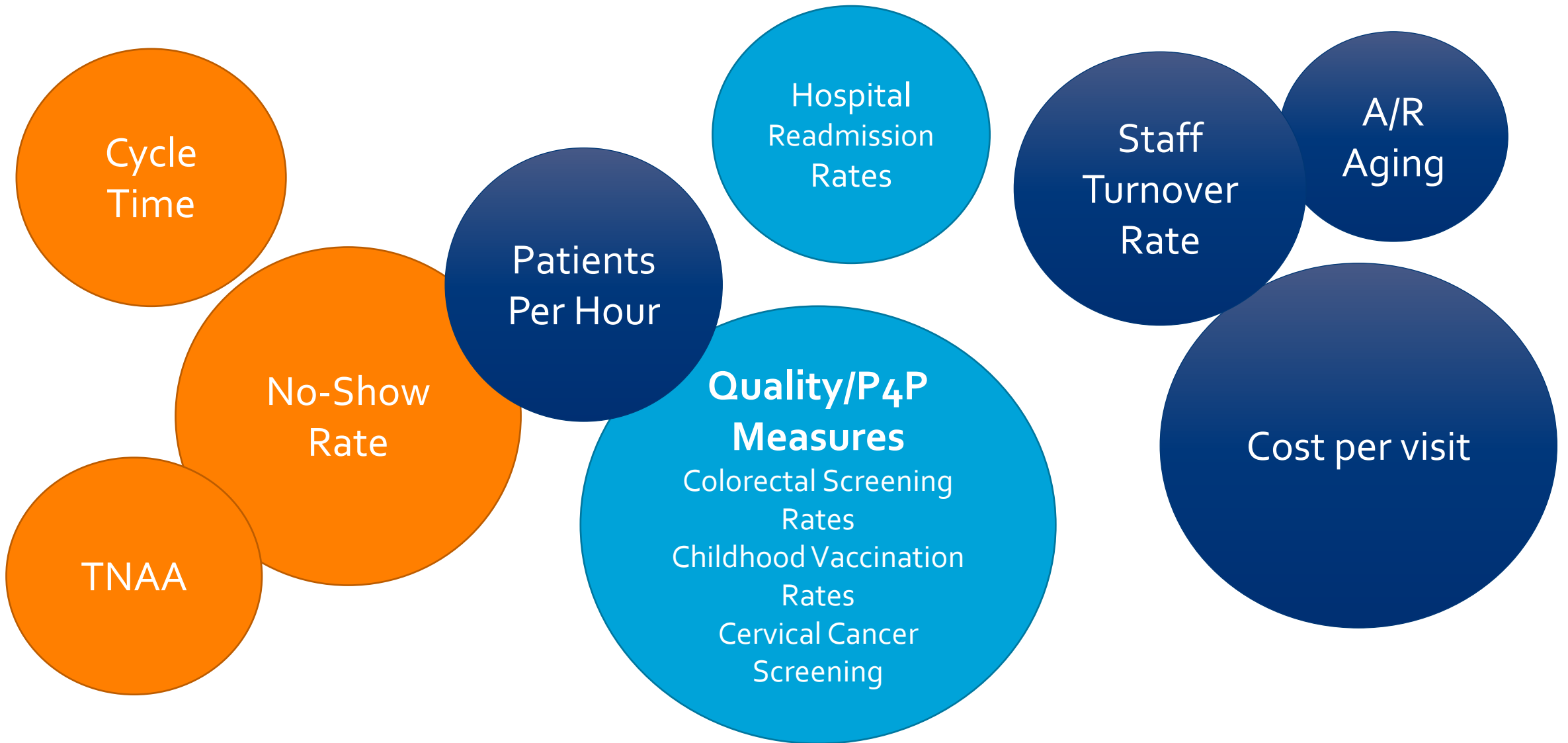
- Defining Measures of Success in Virtual Care
- Peer Sharing: Virtual Care Measures of Success at Public Health Care Systems
Dec 7, 1-2pm. [REGISTER](#)
- Virtual Care Measures of Success: 3-Month Check-in. February 2022

Defining Measures of Success in Virtual Care

Identifying Key Performance Indicators



Ambulatory KPIs You May Already Have



Virtual Care Measurement Buckets



Assume Universal Considerations of Health Equity

Access Measures



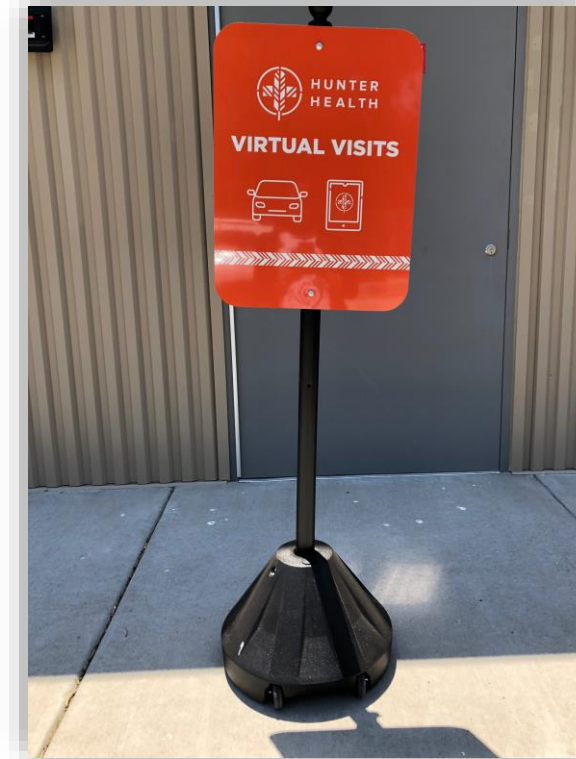
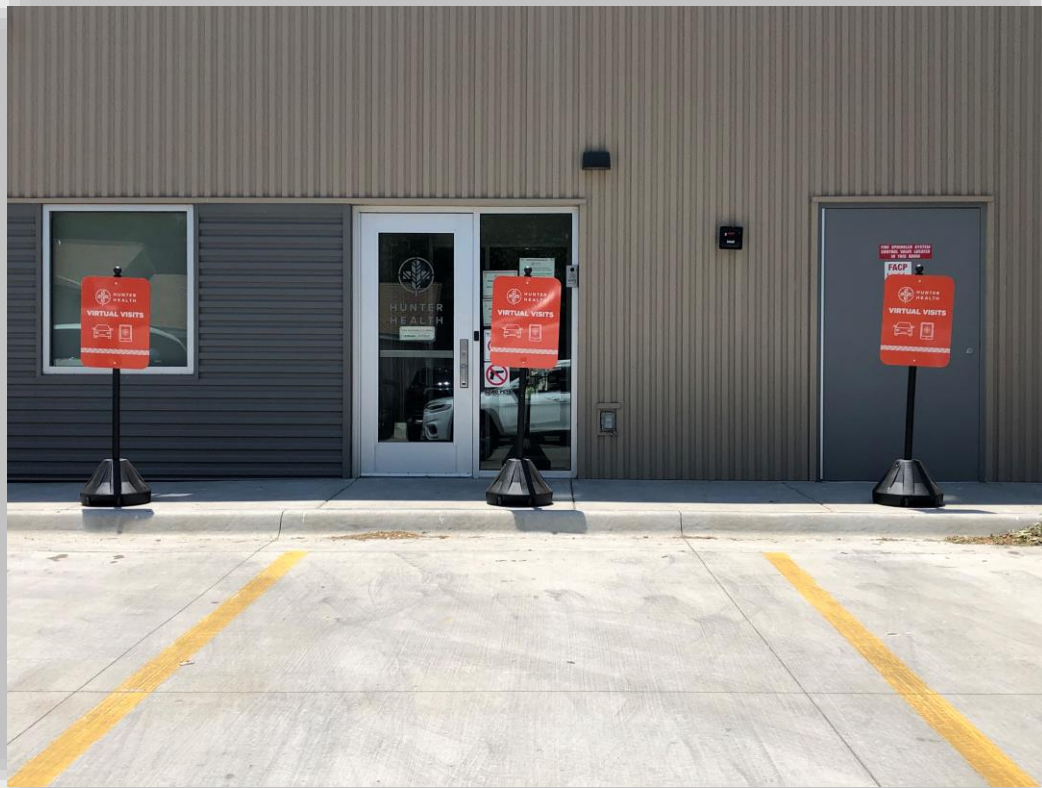
- No-Show Rate*
- Same Day Access*
- TNAA*
- Continuity*
- After Hours Care*

* = KPIs you may already have

Access - TNAA



Access – Equity Gaps



Access – No-Show Rate

Some Ambulatory Care Centers are comparing **No-Show Rates** for Virtual Care Patients and In-Person Visits...

Virtual Care

No-Show Rate:
14%

**In-Person
Care**

No-Show Rate:
22%



\$\$\$

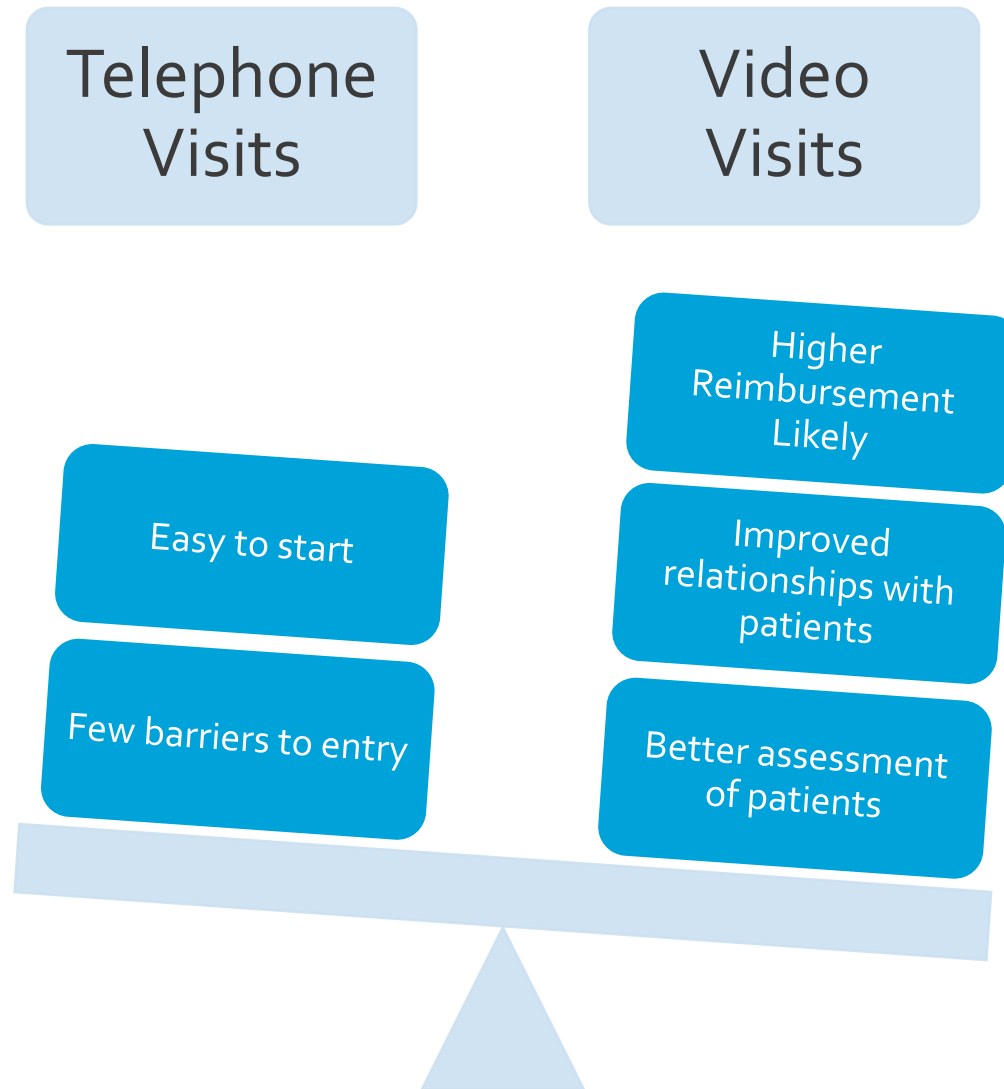


- Cost Per Visit*
- Payer Mix*
- A/R Aging*
- No-Show Rate*
- Patients Per Hour*



\$\$\$ – Telephone vs. Video

Many health centers are working to increase the % of virtual visits that are provided via video instead of telephone to prepare for changes to reimbursement rates.



\$\$\$- Expanding Virtual Care

\$\$\$

The cost of expanding virtual care should be accounted for to compare potential cost saving. Consider the following for possible costs of virtual care:

Time and resources spent to credential and prepare members of the care team

Development of new billing procedures

Equipment Costs

Efforts to expand technology access to underserved communities

What else?



\$\$\$- Tools and Resources

[A Framework for Evaluating the Return on Investment in Telehealth](#) Manatt Health

[A Healthy Balance: Hybrid Virtual Care Models for Optimal Patient Experience, Considerations for California Health Care Executives](#) CTRC

Table 2. Considerations and Guiding Questions for Evaluating Telehealth ROI

Considerations	Guiding Questions
Patient acuity mix	<ul style="list-style-type: none">• Will the telehealth program impact the average patient acuity?• How will revenue and costs change as the patient acuity level changes?
Cost savings	<ul style="list-style-type: none">• Will the telehealth program result in cost savings (e.g., redesign of care, delivery of care in a lower-cost setting)?
New-patient volume	<ul style="list-style-type: none">• Will the telehealth program result in increased patient volume?
Patient retention	<ul style="list-style-type: none">• Will the program result in higher patient retention rates?
Reimbursement or contract revenue	<ul style="list-style-type: none">• Are these telehealth services reimbursable under:<ul style="list-style-type: none">– State Medicaid program and Medicaid managed care org.– Fee-for-service Medicare and Medicare Advantage?– Private payers?• Will the telehealth program bring in other forms of direct revenue payment from a distant site for a teleconsult?
Technology	<ul style="list-style-type: none">• What are the hardware and software costs to implement the program?
Program management	<ul style="list-style-type: none">• What are the programmatic costs to design, implement and manage the program?
Staffing	<ul style="list-style-type: none">• What are the staffing requirements to provide the program?• Will there be associated training costs?• Can we reduce costs by leveraging mid-level providers to provide services?• Does this program automate existing tasks, thereby reducing costs?



A vital responsibility of the healthcare executive is to design feedback loops to serve up data for continual learning and improvement. This will help ensure the sustainability of your hybrid model into the future.

ESTABLISH BASELINE VALUES

First, establish baseline values for patient satisfaction, provider satisfaction, and metrics tied to health outcomes such as the percentage of patients with diabetes that have an HbA1c value less than 8% or the percentage of hypertensive patients with blood pressure in the normal range. Continue to track these measures as your hybrid program matures. Annotate when your health center introduces new virtual offerings on a large scale.

SET MEASURABLE GOALS

Borrow from quality improvement frameworks to set measurable goals for your program to meet within a certain timeframe.



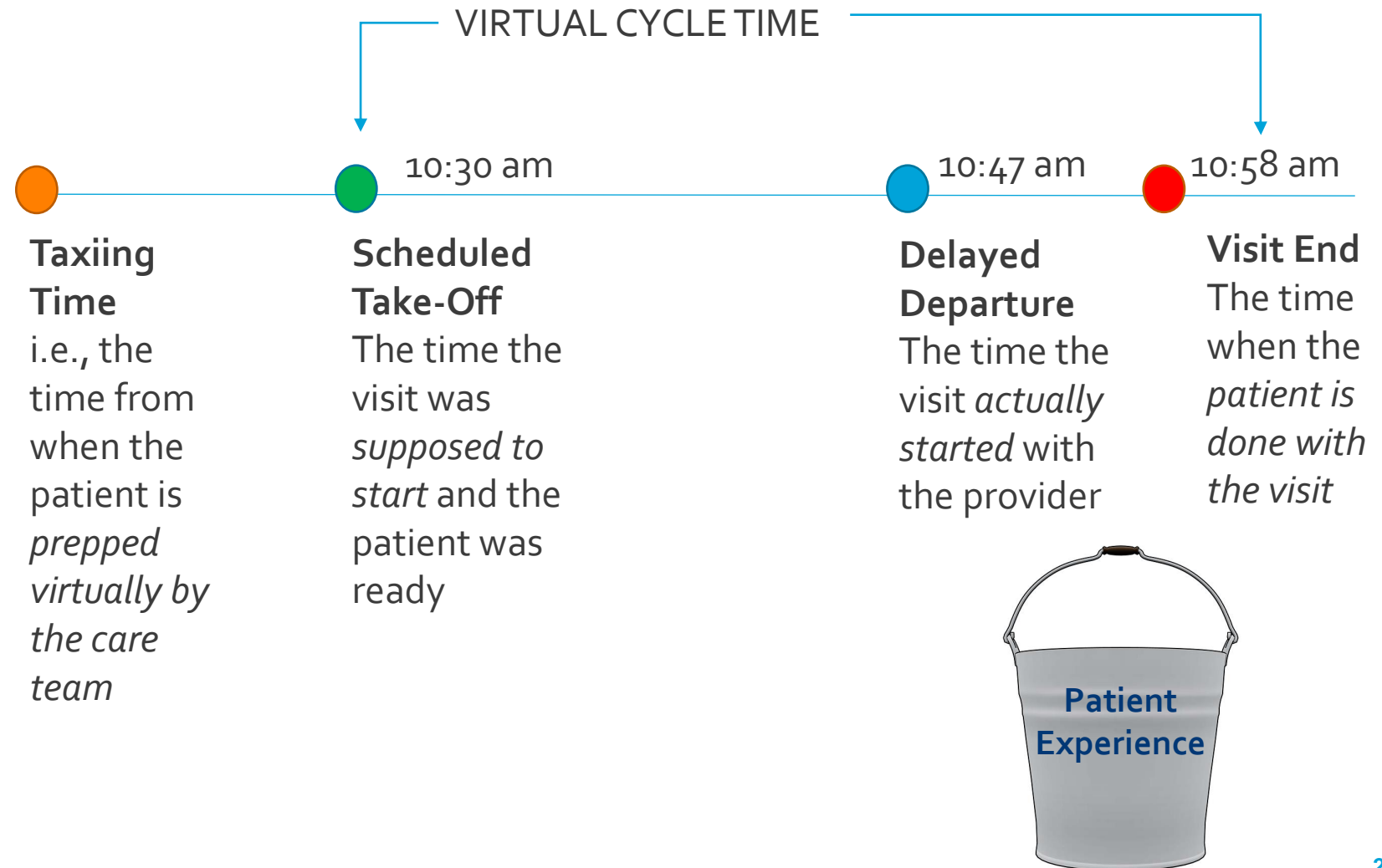
Patient Experience Measures



- Cycle Time
- Abandoned Call Rate
- Patient Experience Survey *Technology Use*

Patient Experience – Cycle Time

In other Ambulatory Health Care environments, staff are examining **Cycle Time** as a patient experience measure.



Appointment Time: 3:20
 Arrival Time: 2:37 pm
 Provider: Cole
 Payer Type: _____

Date: 10/7/21
 Visit Type: Telehealth
 Patient's Gender & Age: Female 37yrs

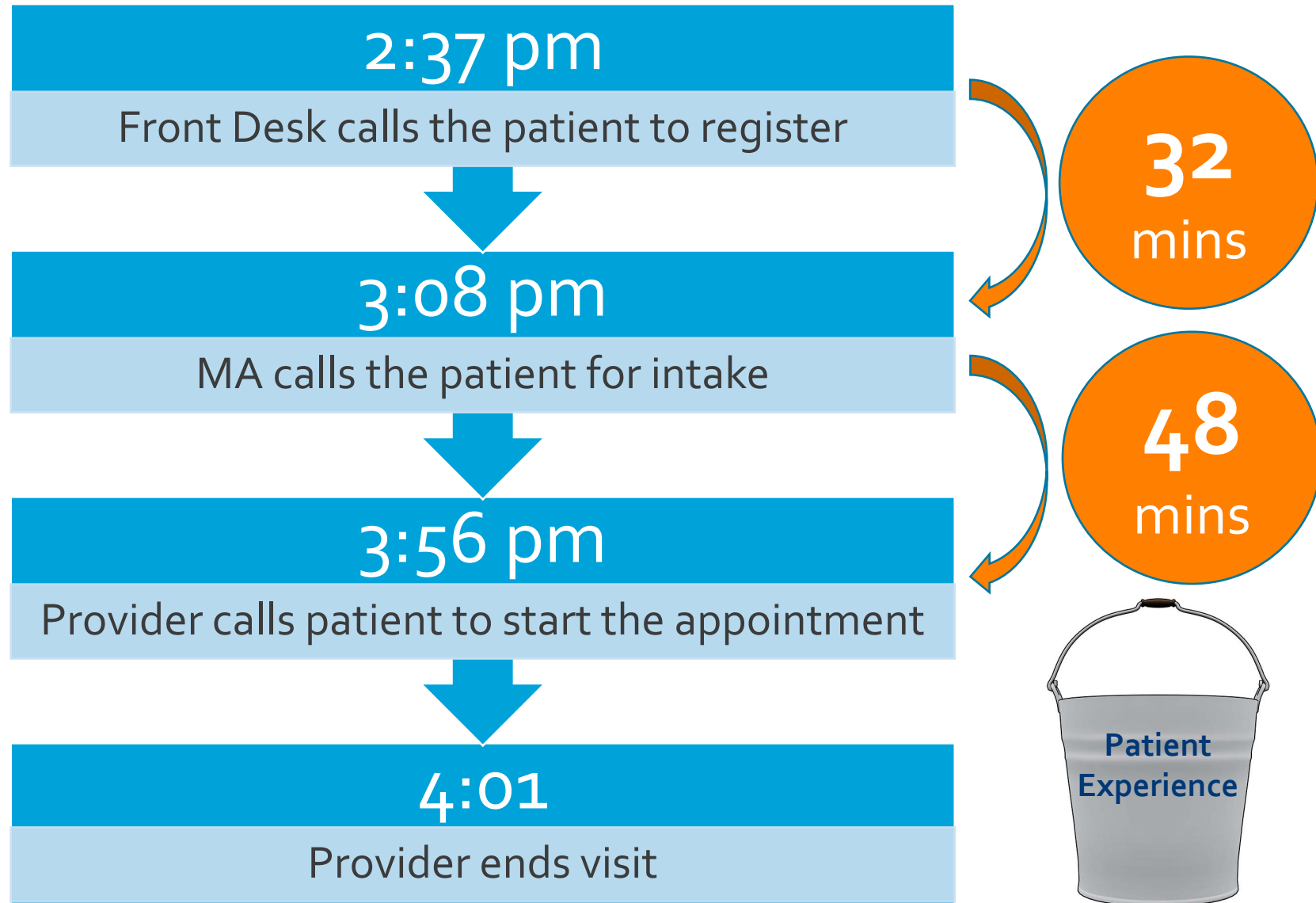
Step	Time	Run Clock	Description of Step	Wait in Min.
1	2:37 pm	1	POD Reception calls pt to check in. Pts registration was all up to date, she checked in and informed that the MA would call between 3pm-3:30pm. They hang up.	31
2	3:08 pm	31	MA calls pt to get pts chart/appt ready for the provider	
3	3:11 pm	34	MA finishes getting pt ready for provider. 3 lets her know that provider is a little behind and that she would be calling her when ready and they hang up.	45
4				
5	3:56 pm	79	Provider calls pt to start appt.	

Step	Time	Run Clock	Description of Step	Wait in Min.
6	4:01 pm	84	Provider completes appt- hangs up with pt	
7				
8				
9				
10				



Patient Experience – Cycle Time

Breakdown of
a typical
Virtual Care
visit in an
FQHC in
California...



Cycle Time Example – Patient Experience

The patient spent **5 minutes** with the provider,

8 minutes with a staff member,

and **76 minutes waiting**.

This Cycle Time was **41 minutes long** from the start of the visit.

But, **84 minutes long** including the **Taxiing Time**.



Patient Experience

At the University of California-Davis, patients who used virtual care resulted in an average of...



278 fewer
miles traveled



\$156 in travel
cost savings
per individual

(National Quality Forum, 2017, 11); (Casey, 2017)

Patient Experience - Surveys



Validated tools for
assessing
Patients'
Experiences with
Virtual Care:

The Virtual Care
Usability Question

Telemedicine
Satisfaction and
Usefulness
Questionnaire

Patient Assessment
of Communication
during
Telemedicine

Net Promoter
Score

What Else?

Staff & Provider Experience Measures



- Retention/Turnover*
- Satisfaction Surveys*
- Flexible Work
- Timely Charting Completion*
- Ease of use of technology

Staff & Provider Experiences



Since COVID-19, virtual care has opened up the opportunity for flexible and virtual work for providers and staff in health centers. The impact of this increased flexibility can be measured using:



Staff
Satisfaction
Surveys



Turnover

Staff & Provider Experiences



The biggest driver of patient and staff dissatisfaction with virtual care are difficulties with the technologies. These can be measured with the following:



Down Time



Length of Virtual Visits



% of Visits in which patients and providers were not successfully connected

Quality



- HBA₁C*
- HTN*
- Childhood Vaccines*
- Timely Prenatal Care*
- Readmission Rates*
- Timely visits after ED or hospitalization*
- Wait for New Patient Appointments*

Quality



Virtual Care

HbA₁C <9% ✓

Controlled HTN ✓

Childhood Vaccinations

Timely Pre-natal Care ✓

Readmission Rates ✓

VS

In-Person Care

HbA₁C <9%

Controlled HTN

Childhood Vaccinations

Timely Pre-natal Care

Readmission Rates

Quality



Concerning JDEI:

Dive deeper into quality metrics and look for potential disparities by disaggregating measures by race, ethnicity, gender identity, sexual orientation, age, zip code, etc.

Quality



In one of the NQF environmental scan studies, patients who were evaluated for stroke virtually had....



Faster diagnosis



More complete records



Faster administration of appropriate therapy

(Meyer et al., 2008); (National Quality Forum, 2017, 12)

Quality



In a Virginia hospital, hip and knee replacement patients that used Virtual Care had...



Decreased readmissions



Shorter stays



Improved Patient Satisfaction

(National Quality Forum, 2017, 15)

Quality



At the Oregon Health and Sciences University, Skype BH services were given to adolescents in rural areas with poorly controlled Type 1 DM, and...



The participants had increased adherence to diabetes regimens



The relationships between participants and therapists were similar to in-person encounters

Virtual Care Measurement Buckets



Assume Universal Considerations of Health Equity

Question:

What other examples have you seen?



Wrap-up

Homework



1

Have **internal conversations** about KPI examples that resonated with you




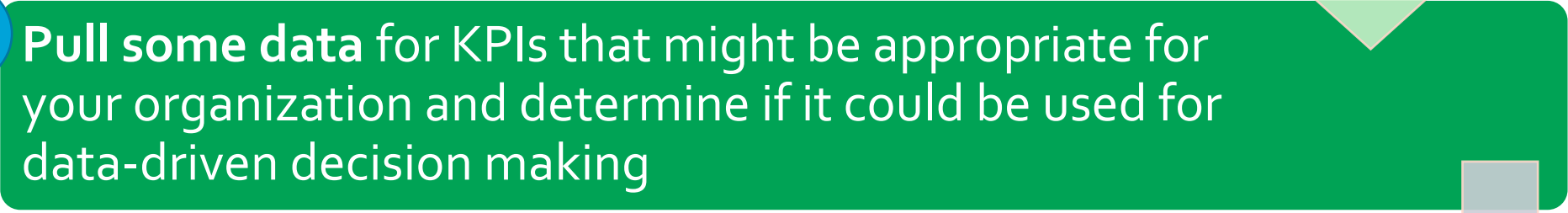
2

Look at what you are currently evaluating for Virtual Care and **identify what** you could change



3

Pull some data for KPIs that might be appropriate for your organization and determine if it could be used for data-driven decision making



4

Prepare to share briefly on our next call



Homework Worksheet

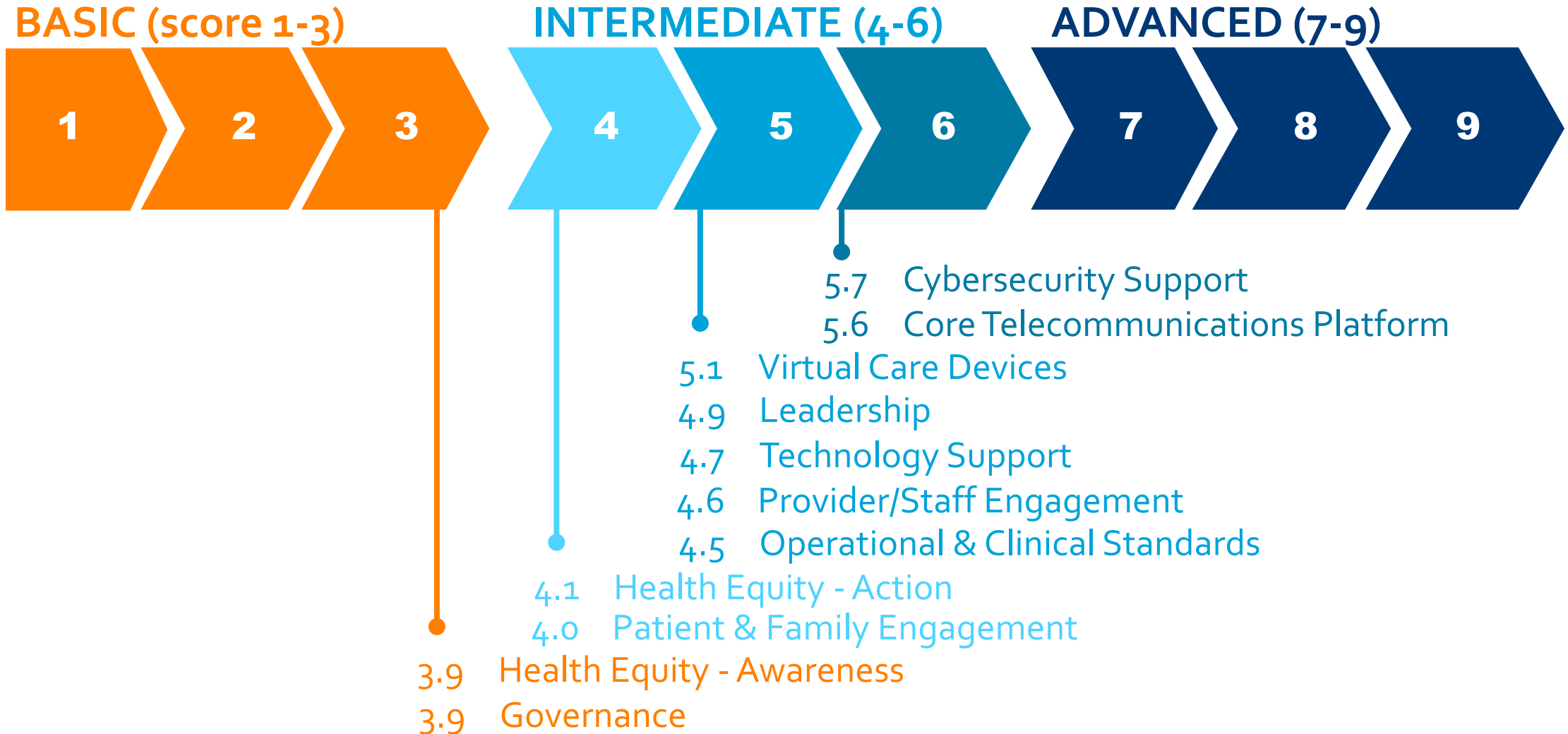


Defining Measures of Success in Virtual Care

Convene your virtual care leaders (e.g., CIO/CMIOs, telehealth leads, ambulatory care leads) and respond to the questions below. Reference the [webinar slides](#) for examples of virtual care key performance indicators (KPIs), as well as resources to guide the conversation.

1. What measures are you currently evaluating for virtual care?
2. What were the virtual care measures discussed on the [webinar](#) that resonated with you? Are there measures that [weren't](#) covered on the webinar that you'd also like to consider?
3. If available, what are your organization's KPIs (e.g., True North measures) outside of virtual care (these measures could be systemwide or specific to ambulatory care)? How could you align the measures you select for virtual care with your current KPIs and/or strategic initiatives?
4. What equity measures would you include to monitor your progress to reduce disparities in access to virtual care? Relatedly, what equity measures would help you understand if

Average Scores for Each Category



Up Next

Measuring Success in Virtual Care

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Operations & Clinical Standards

- Mixed Models, Revisited
- Virtual Care Intake and Social Needs Screening

Patient & Family Engagement

- Tech Navigators
- Access and Digital Literacy
- Remote Patient Monitoring

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Thank you!

don't forget to fill out the survey



References

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