National PRQC
Pediatric Readiness Quality Collaborative
Ensuring Emergency Care for All Children

Fireside Chat
Data Literacy / Data Tutorial

September 5, 2023

EMSC Quality Improvement Collaboratives

Acknowledgments

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Thank you for joining!

Session is being recorded and posted online along with slides

Utilize the Q&A feature to ask questions

Place your name in the chat for nursing and social work credit

Discussion will follow presentation

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Objectives

After participating in this session, attendees will be able to:

Enter data, analyze and manage data, and interpret data site-specific performance dashboards

Speakers

Sanyukta (Sanya) Desai, MD, MSc
Assistant Professor of Pediatrics
Dell Medical School at the University of Texas at Austin

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Senior Program Coordinator
National Pediatric Readiness Quality Initiative

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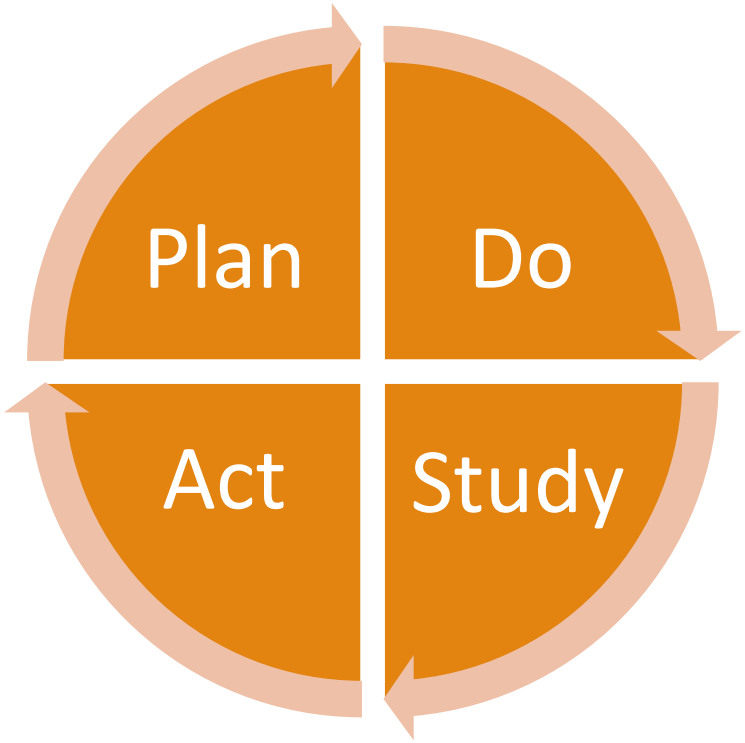
The Quality Improvement Life Cycle



For this lecture, we will focus on the "**STUDY**" portion of the QI Life Cycle

Our goal is to orient you to the infrastructure that has been created to **automate the collection and analysis of data** for PRQC

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Quality Improvement: Measurement

- In order to know if your interventions are leading to improvement, you need to develop meaningful measures for your improvement project.

- Types of Measures:
  - Structural Measures
  - Process Measures
  - Outcome Measures

- Well-developed measures should be:
  - Meaningful to the goal of your improvement project
  - Easy to understand and interpret
  - Feasible to collect

NPRQI: Your Tool for Effective Measurement

The data portal provides:

- Streamlined Data Entry
- Translation of raw data into targeted measures
- Real-time visualization of your performance on targeted measures over time
- Benchmarking of your performance to national aggregate as well as to similar sites

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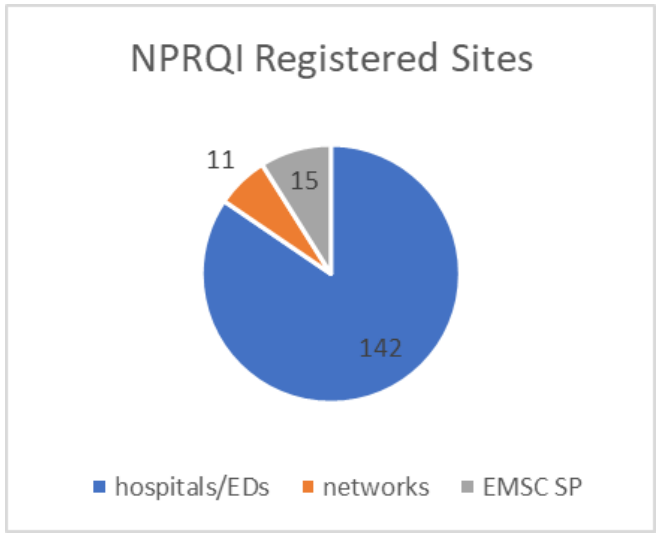
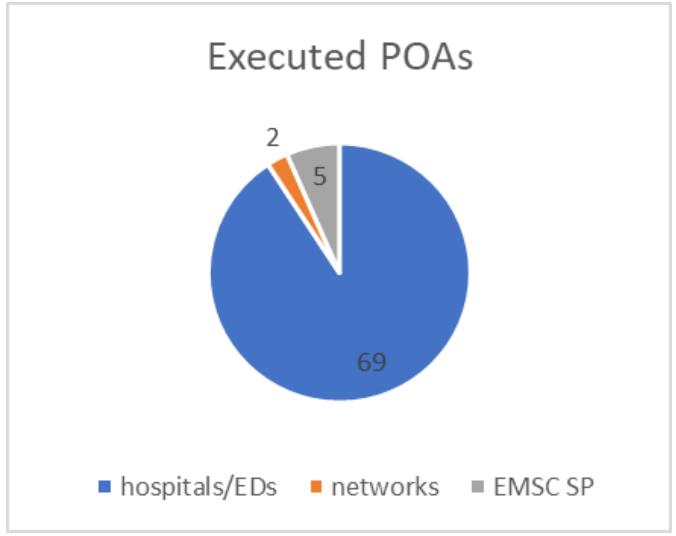
NPRQI: Registration and POAs





Participant Organization Agreement

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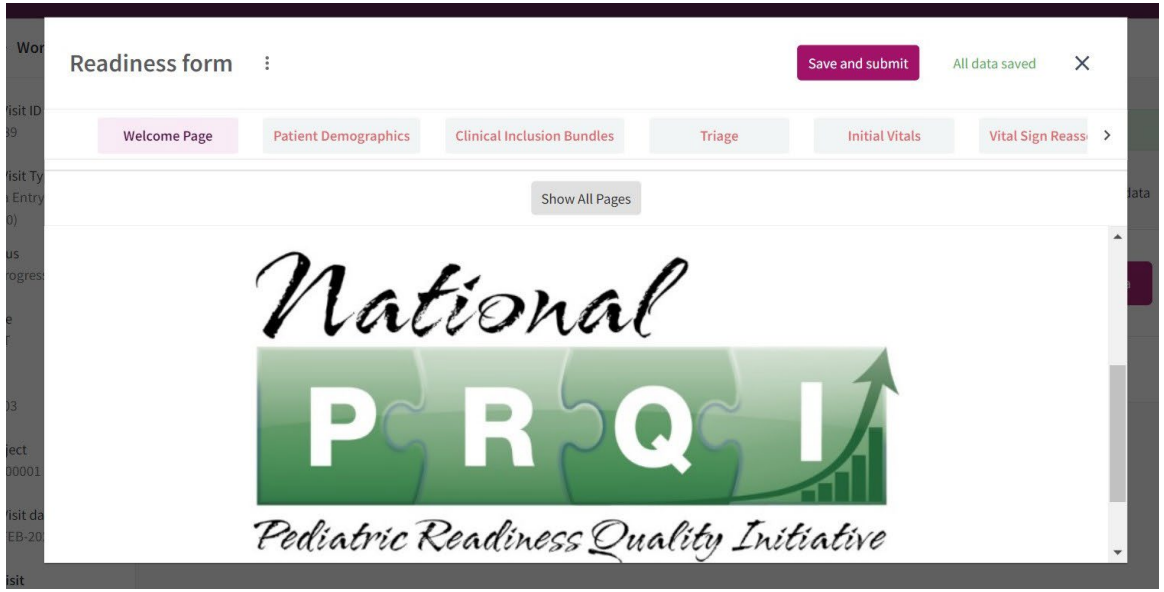
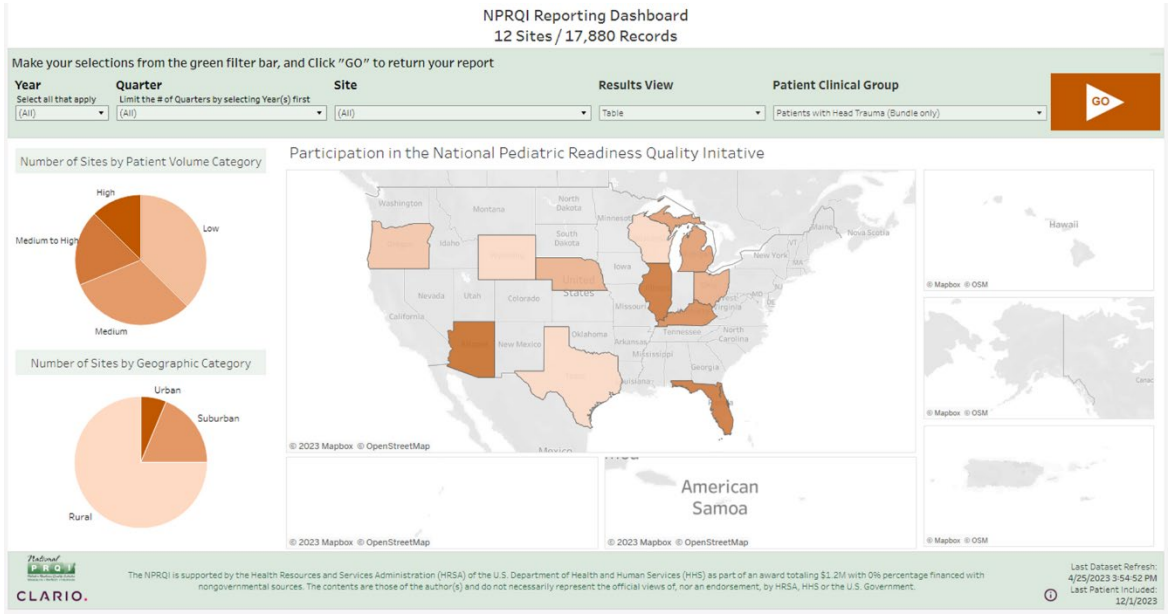
NPRQI: Structure

DATA ENTRY PORTAL



DASHBOARD



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NPRQI: Access Levels

Level 1 Access

Privileges
- Enter/Edit Data
- Dashboard Access to View Site Performance
- Ability to View National (Aggregate) Performance

Restrictions
- Will need a Level 2 or 3 User to submit data on their behalf

Role Example
- Research Assistant

Level 2 Access

Privileges
- Enter/Edit Data
- Submit/Cancel Data
- Review/Approve Data
- Dashboard Access to View Site Performance
- Ability to View National (Aggregate) Performance

Role Examples
- Research Assistant, ED Nurse, ED Director/Manager, QI/Safety Specialist

Level 3 Access

Privileges – Most Comprehensive Access
- Enter/Edit Data
- Submit/Cancel Data
- Review/Approve Data
- Request Edits to Data Set
- Dashboard Access to View Site Performance
- Ability to View National (Aggregate) Performance

Role Examples
- Site Administrator, ED Director/Manager, Pediatric Emergency Care Coordinator, Chief Nursing Officer

Each site is limited to 5 data portal users. To remove or add users email: liza.hinojosa@austin.utexas.edu

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Data Entry Preparation

Data Entry User Guide

	Obtain secure login credentials (must have executed POA) tap.support@clario.com
	Log in and complete training videos - Patient Safety Organization - NPRQI Data Entry
	Creating Unique Subject IDs Subject ID format will be: **user's first initial, user's last initial, + 4 digits** Ex: LH0001, LH0002 *Do not use the actual patient record ID for NPRQI data entry.*
	Selecting Charts All = low volume sites Systematic = inclusion of every Nth patient Stratified = certain populations (one clinical presentation)

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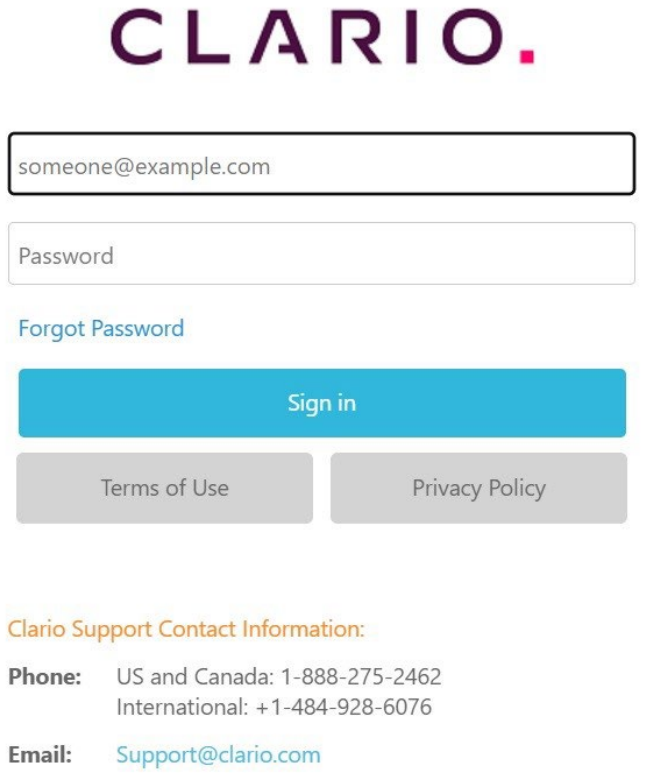
Beginning Data Entry

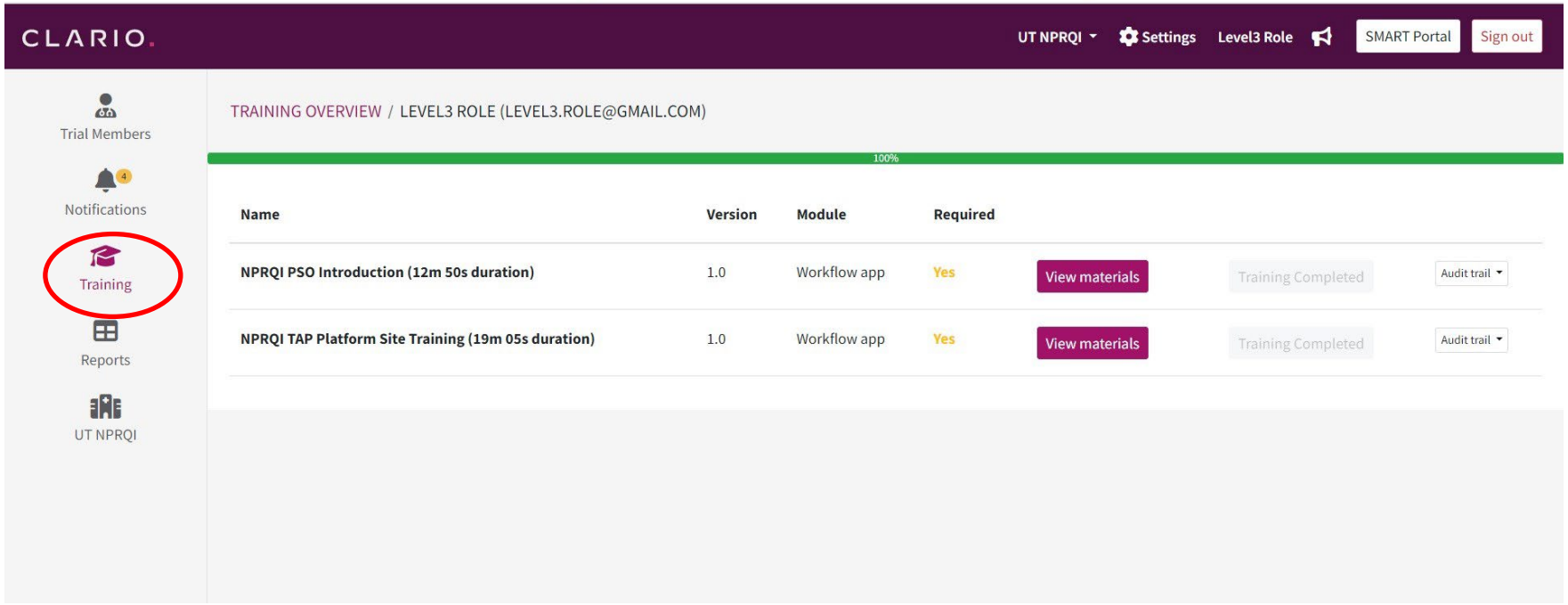
Initial Login:

Must have executed POA and secure login credentials



Data Entry - Training

Initial Login: Complete Training



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Data Entry Welcome Page

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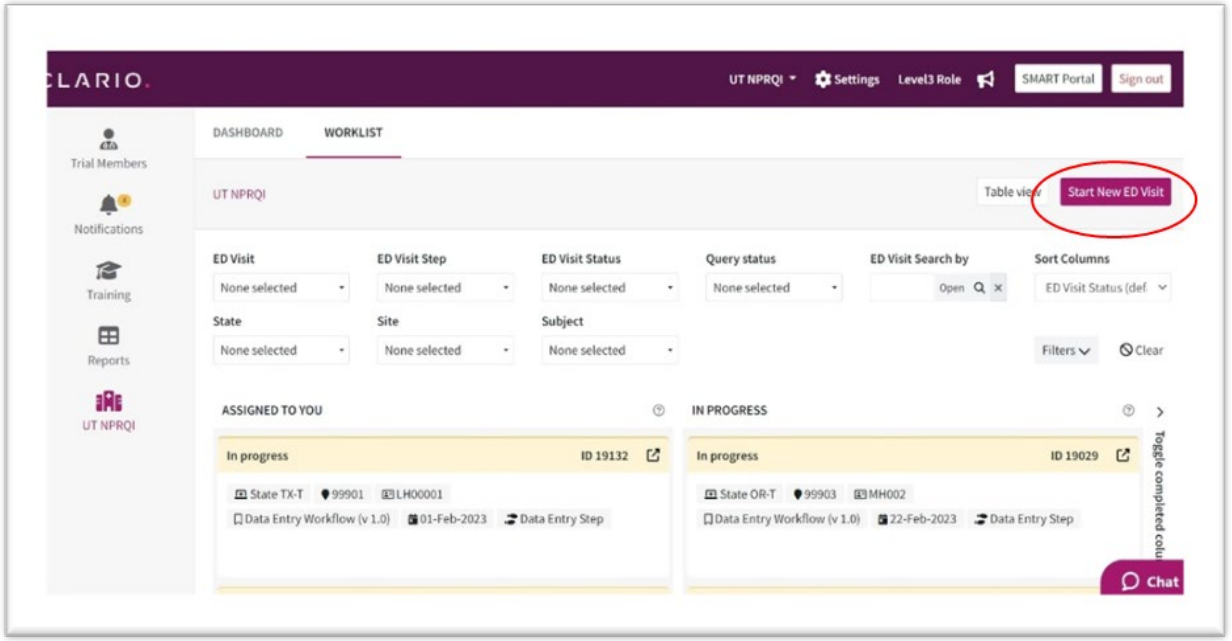
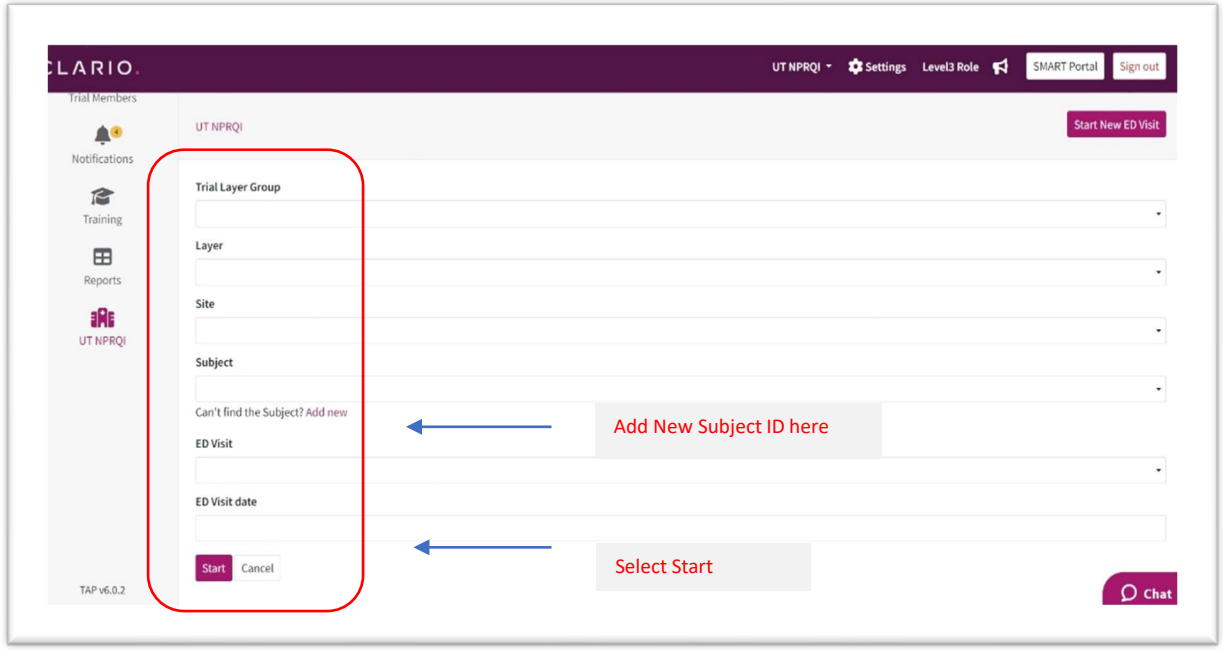
Data Entry





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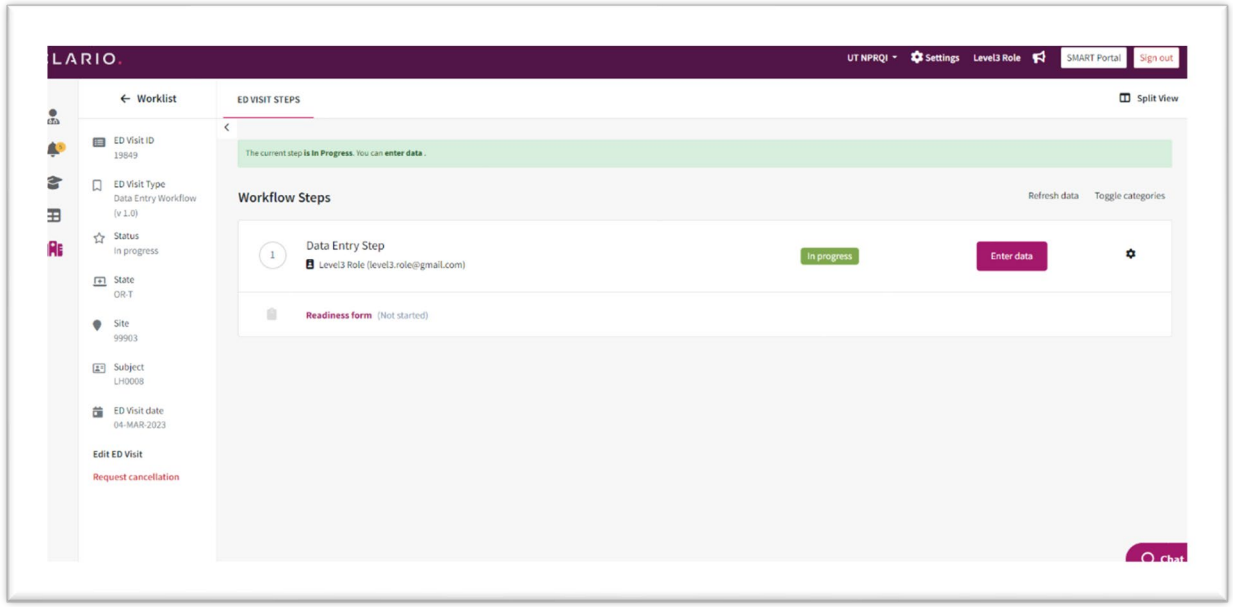
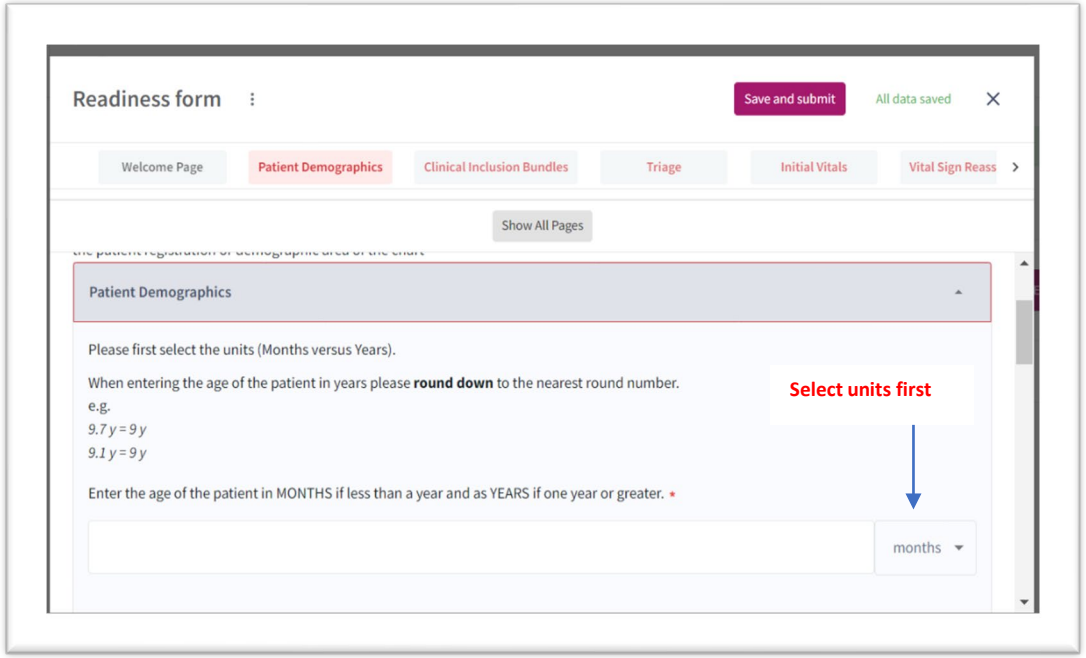
Data Entry





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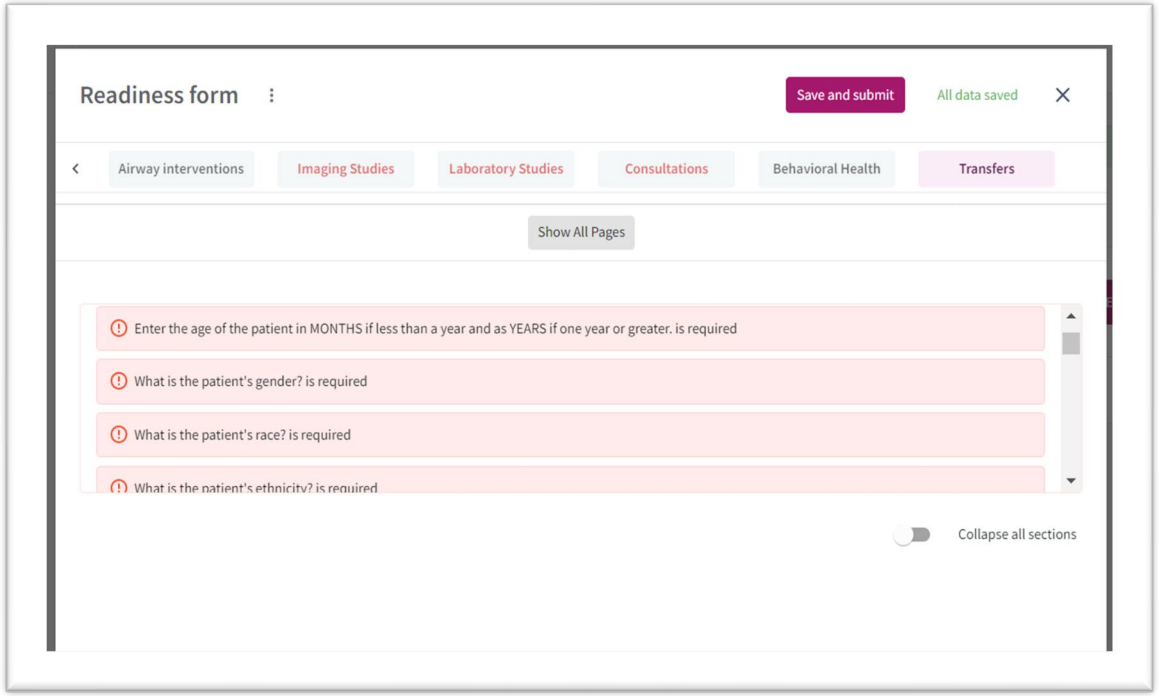
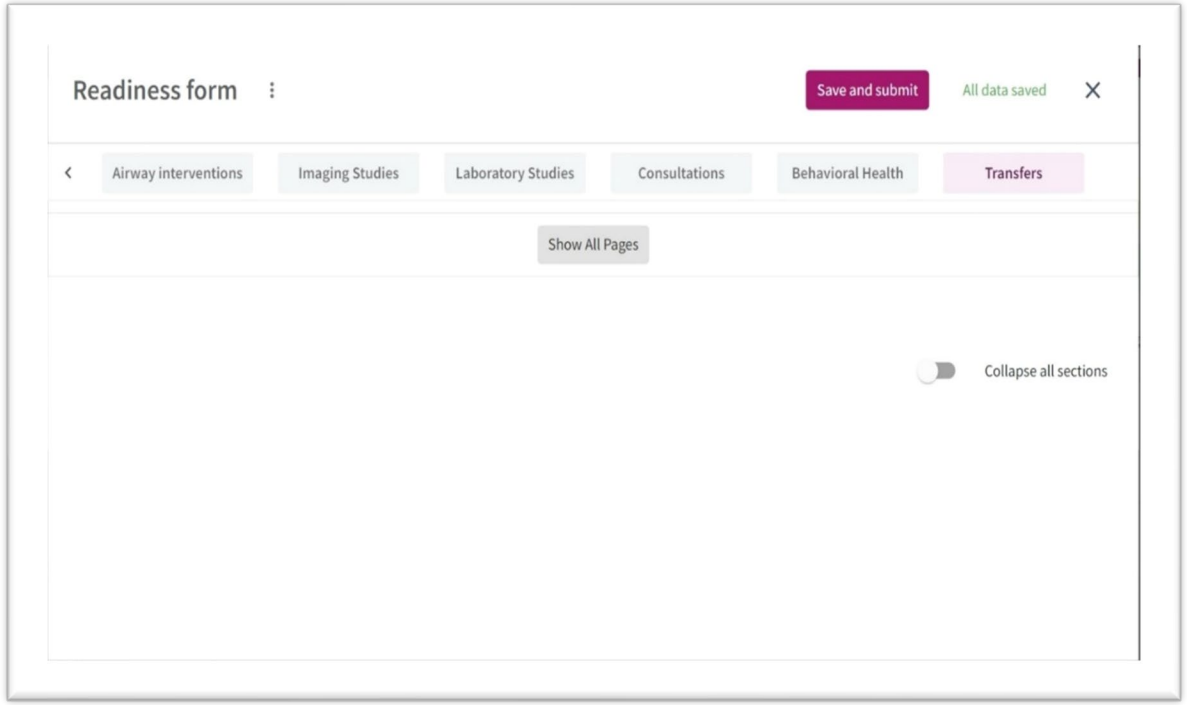
Save and Submit Data





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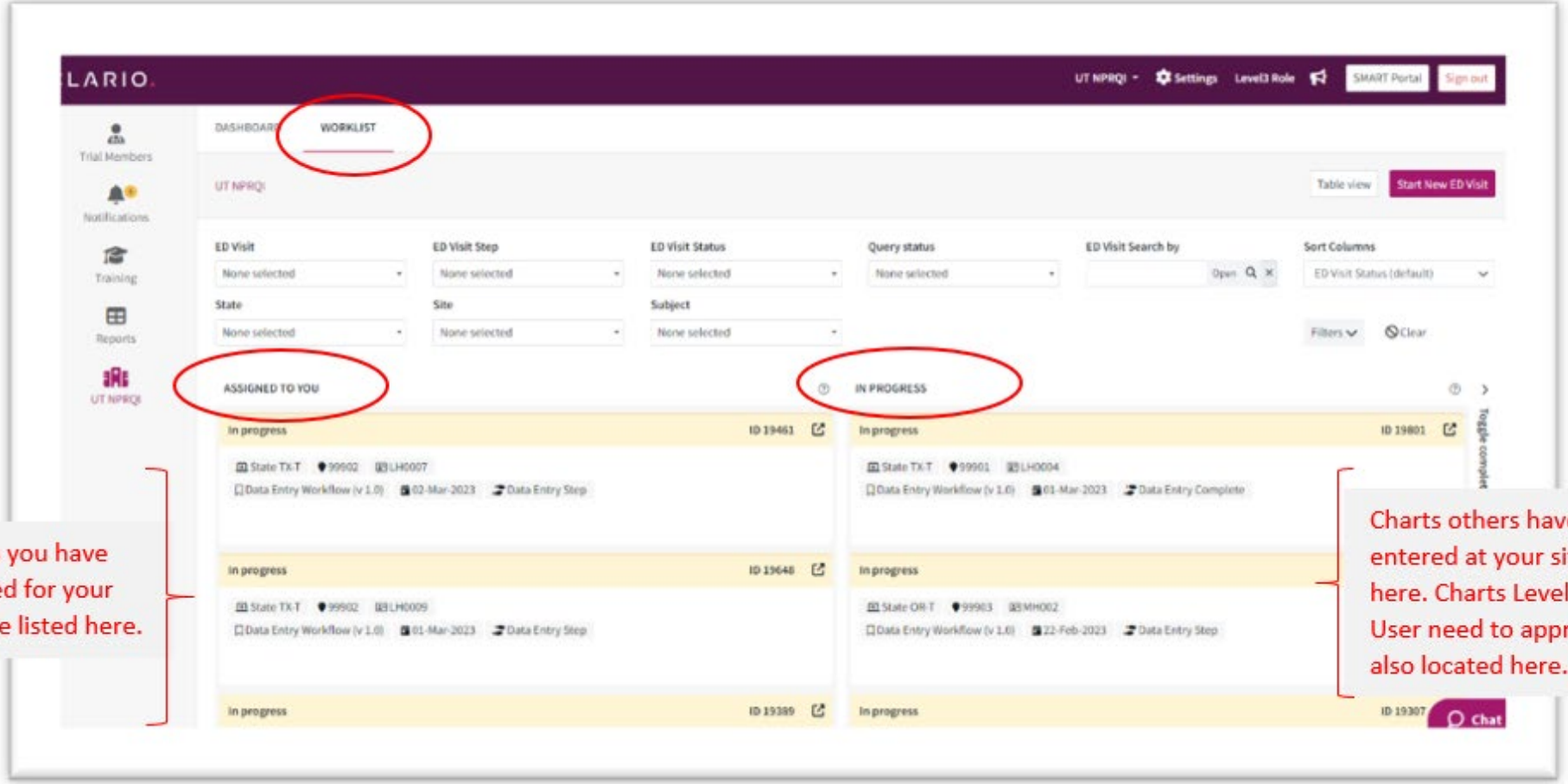
Approving Entries



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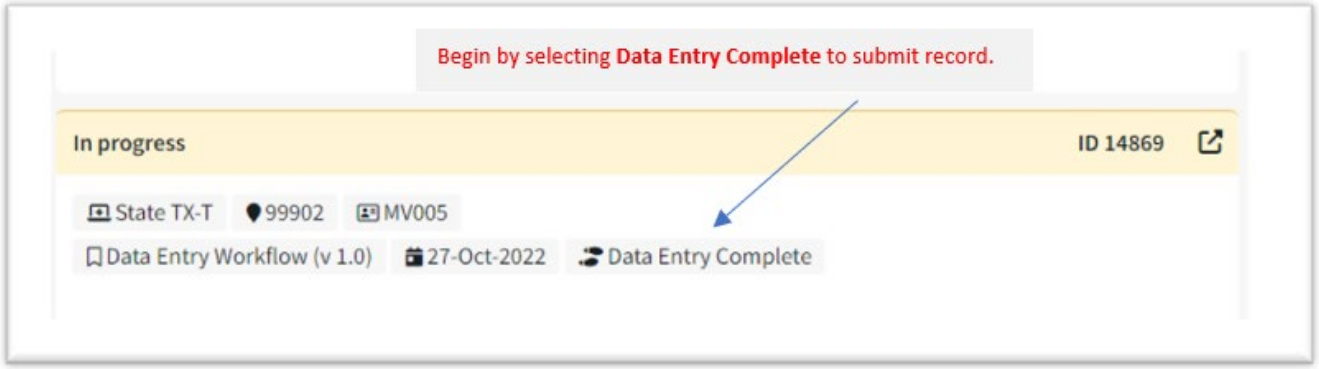
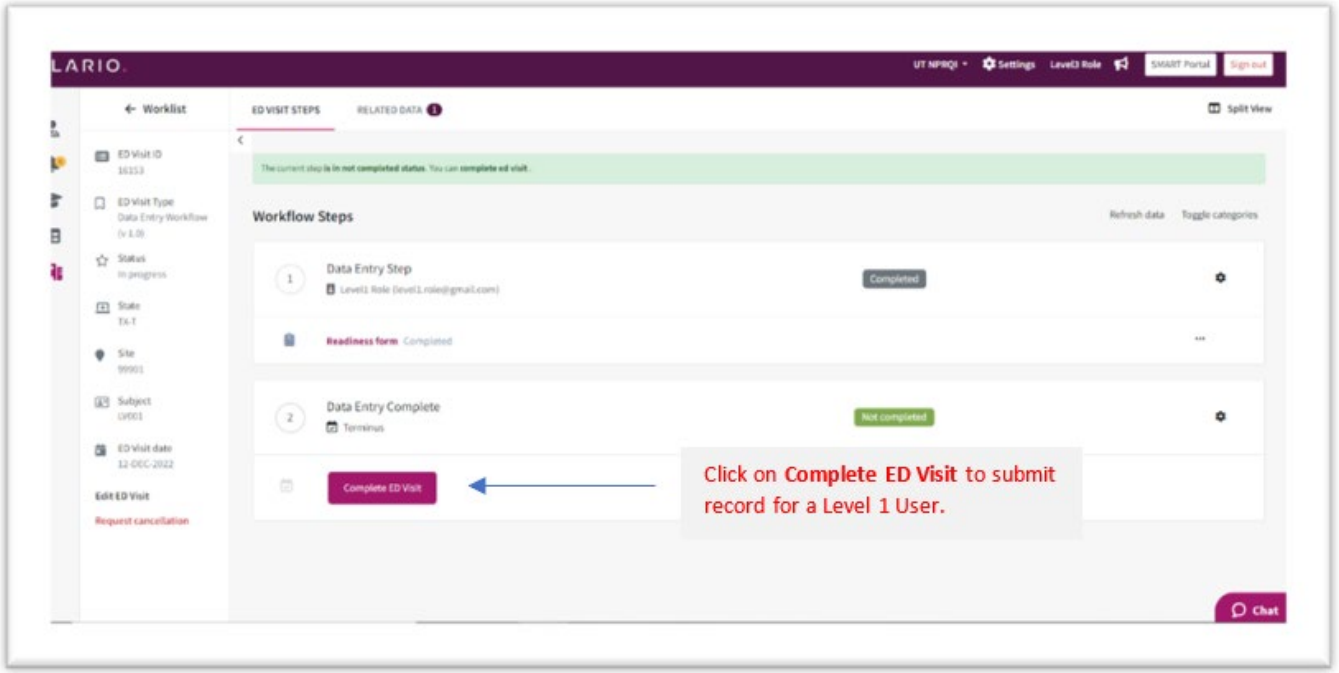
Submitting Records for Others





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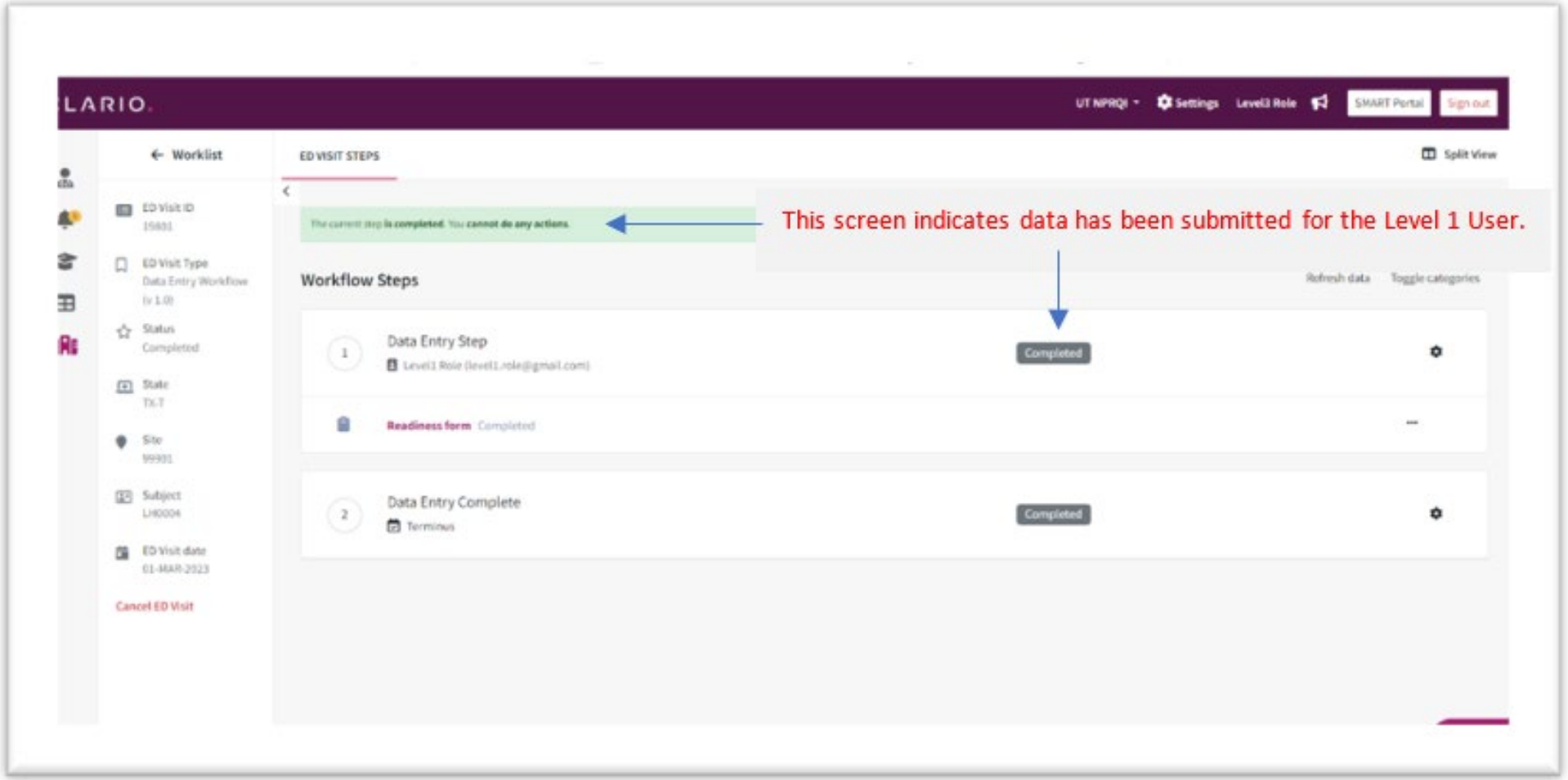
Submitting Records for Others



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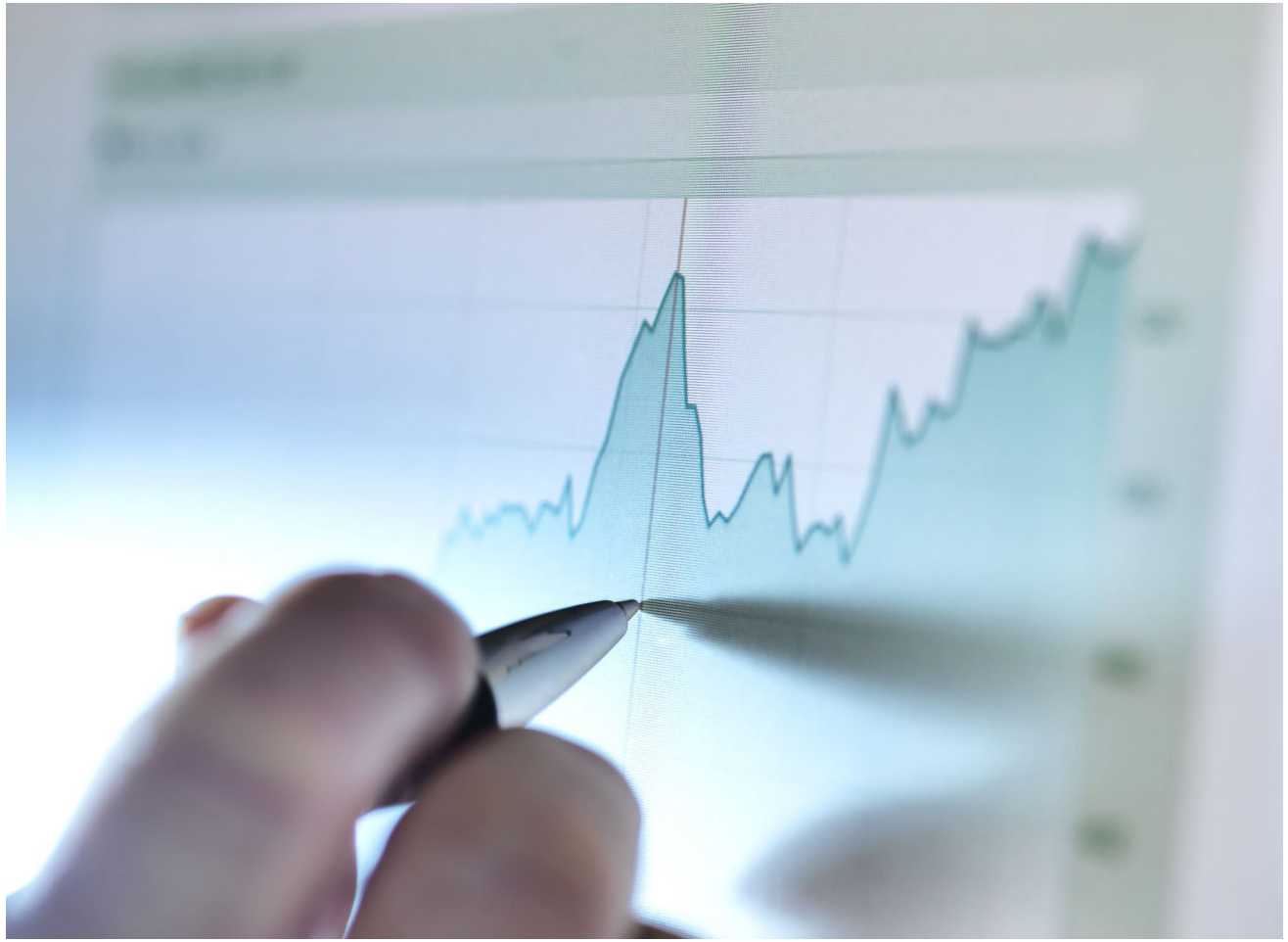
Interpreting your Data Using NPRQI



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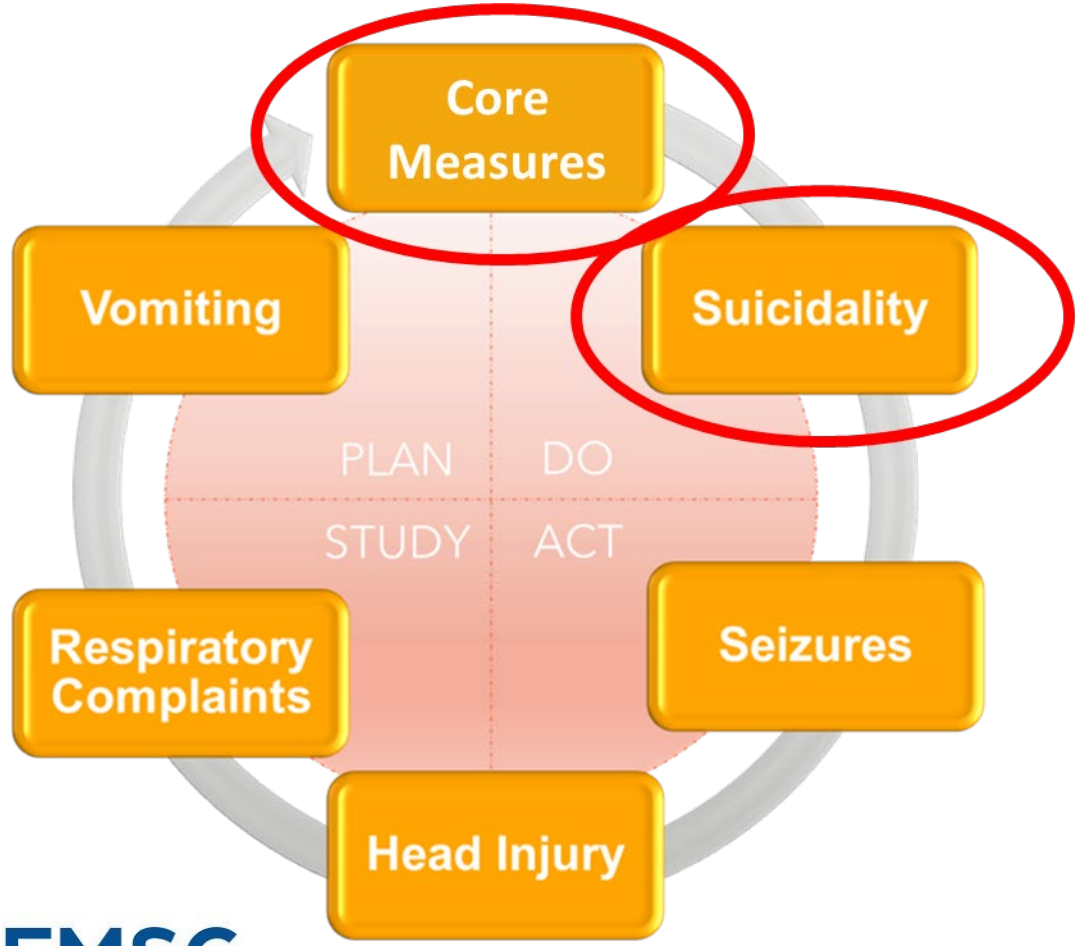
NPRQI Measure Bundles



NPRQI includes **28 Measures organized into 6 Bundles.**

PRQC Measures are included in: "**Core Measures**" and "**Suicidality**" Bundles

You may also enter patients into other clinical bundles based on your site's QI interests and goals; However we suggest that you orient yourself with the PRQC bundle of your choice first before adding others.

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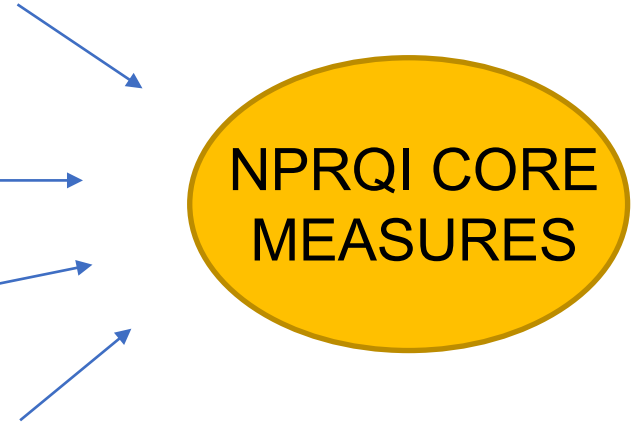
Where to find PRQC Measures

PRQC BUNDLE	Measure
Weight	% of children with weight measured in kilograms ONLY
Pain	% of children with pain assessed
Abnormal Vital Signs	% of children with vital signs re-assessed
	Median Time from collection of vital signs to first intervention



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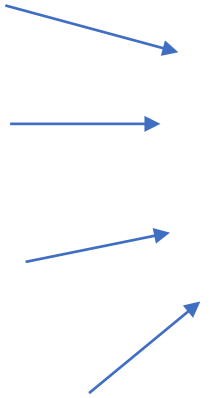
Where to Find PRQC Measures

PRQC BUNDLE	Measure
Suicide	% of children who had a suicide screen
	% of high risk children who had a structured suicide assessment
	% of high risk children who had a consultation with a licensed mental health professional
	% of high risk children who received a discharge safety plan



NPRQI **SUICIDALITY** BUNDLE

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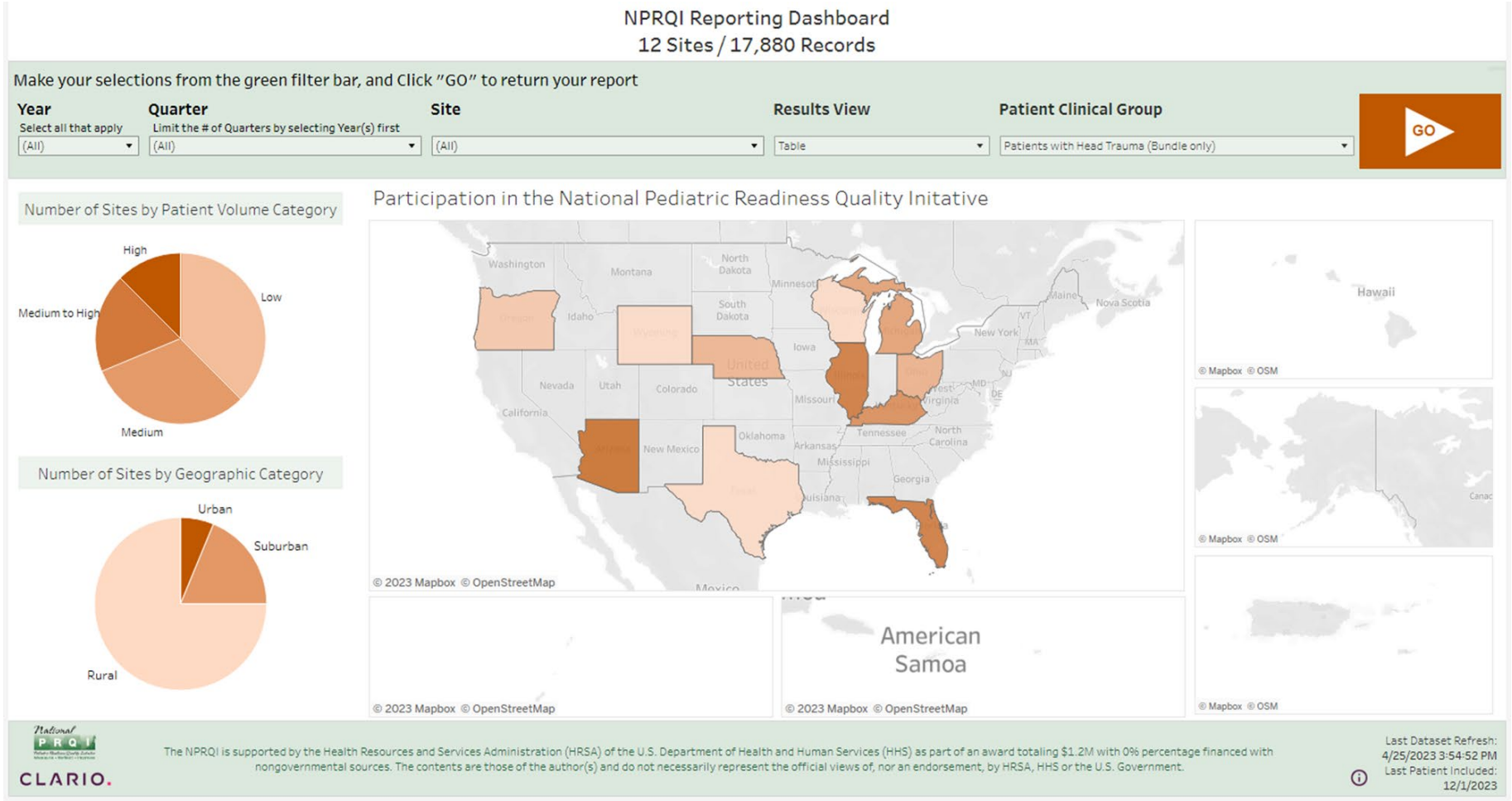
NPRQI Dashboard Demo



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Reference Materials

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Data Portal Resources

- **Data Entry Record Form:** A guide to all the questions in the NPRQI data portal
- **Data Collection Reference Guide:** Details all the data points collected
- **Data Elements for Clinical Bundles:** Outlines all the data points needed to correctly calculate the numerator and denominator for each clinical quality measure
- **Data Entry User Guide:** A "how-to" step by step instructions on entering data and analyzing data entry reports
- **Military Clock Conversion Chart:** Chart to easily convert 24-hour military time to 12-hour standard time
- **IDC-10 Codes:** Quickly find common pediatric diagnosis codes

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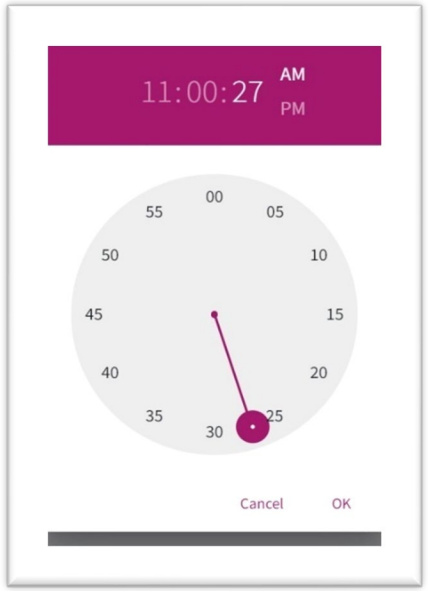
Data Entry Tips and Tricks

Triage



- Patient first evaluated by ED
- Questions divided into sections that mirror EMR
- Use clock conversion chart
- No second's value needed

ED Fluids and Medications

- Other fluids such as saline, oral rehydration, etc. are listed within medications.
- Up to 10 medications and fluids may be entered. Enter 1st medication or fluid given then include medications and fluids relevant to clinical condition in order to accurately capture key metrics.

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Core Measures: Weight and Pain

Measure	Goal	Measure Components	Data Entry Tips
% children with weight in kilograms ONLY	↑	**Numerator:** #patients with weight documented in kilograms ONLY **Denominator:** all patients	Enter data under "**Triage**" Tab Choose the units used for weight in the electronic record. **Note**: the goal is to have Kilograms as the ONLY unit of weight measurement to avoid dosing errors.
% children with pain assessed	↑	**Numerator**: #patients who had a pain assessment **Denominator**: all patients	Enter data under "**Initial Vitals**" Tab. Answer "Yes" if any pain assessment was conducted for the patient

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Core Measures: Abnormal Vital Signs

Measure	Goal	Measure Components	Data Entry Tips
% children who had vital sign reassessment	↑	**Numerator**: #patients who had **all** vital signs reassessed **Denominator**: patients with triage Emergency Severity Index (ESI) 1-3	Enter data under "**Vital Sign Reassessment**" Tab Vital Signs include: Temperature, Heart Rate, Respiratory Rate, oxygen saturation, BP, Mental Status
Time to first intervention	↓	Median time between triage and receipt of first intervention	Start time = Triage time End time = Time of receipt of any medication, fluid or respiratory therapies (e.g. oxygen) Note: Under "**Fluids and Medications"** tab, please ensure that the first entry is the FIRST fluid or medication administered.

Note: These measures are only calculated for high acuity patients, i.e. patients with an ESI score of 1,2, or 3.

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Suicidality Measures

Measure	Goal	Measure Components	Notes
% of adolescents who had a suicide screen	↑	**Numerator**: #patients who had a suicide screen **Denominator**: all patients age 12 yrs and older	Enter data under "**Screenings**" Tab If patient had a suicide screen, click "Yes" for safety screening, and then select suicide risk screen (e.g. ASQ, CSSRS)
% high risk patients who had a structured suicide assessment	↑	**Numerator**: #patients who had a structured suicide assessment **Denominator**: all patients who had a positive suicide screen	Enter data under "**Screenings**" Tab A structured suicide assessment is a detailed evaluation often conducted by a mental health provider

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Note: High risk patients = screened positive on suicide screening tool

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Suicidality Measures

Measure	Goal	Measure Components	Notes
% high risk patients who had a consult with a mental health professional	↑	**Numerator**: #patients who had a mental health consultation **Denominator**: all patients with a positive suicide screen	Enter data under "**Consultations**" Tab Mental health consultants could include psychiatrists, psychologist, licensed clinical social workers.
% high risk patients who received a discharge safety plan	↑	**Numerator**: #patients who had a discharge safety plan **Denominator**: all patients who had a positive suicide screen and were discharged home	Enter data under "**Behavioral Health**" tab Note: be sure that you have selected SUICIDALITY bundle in NPRQI in order to get access to this question.

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Note: High risk patients = screened positive on suicide screening tool

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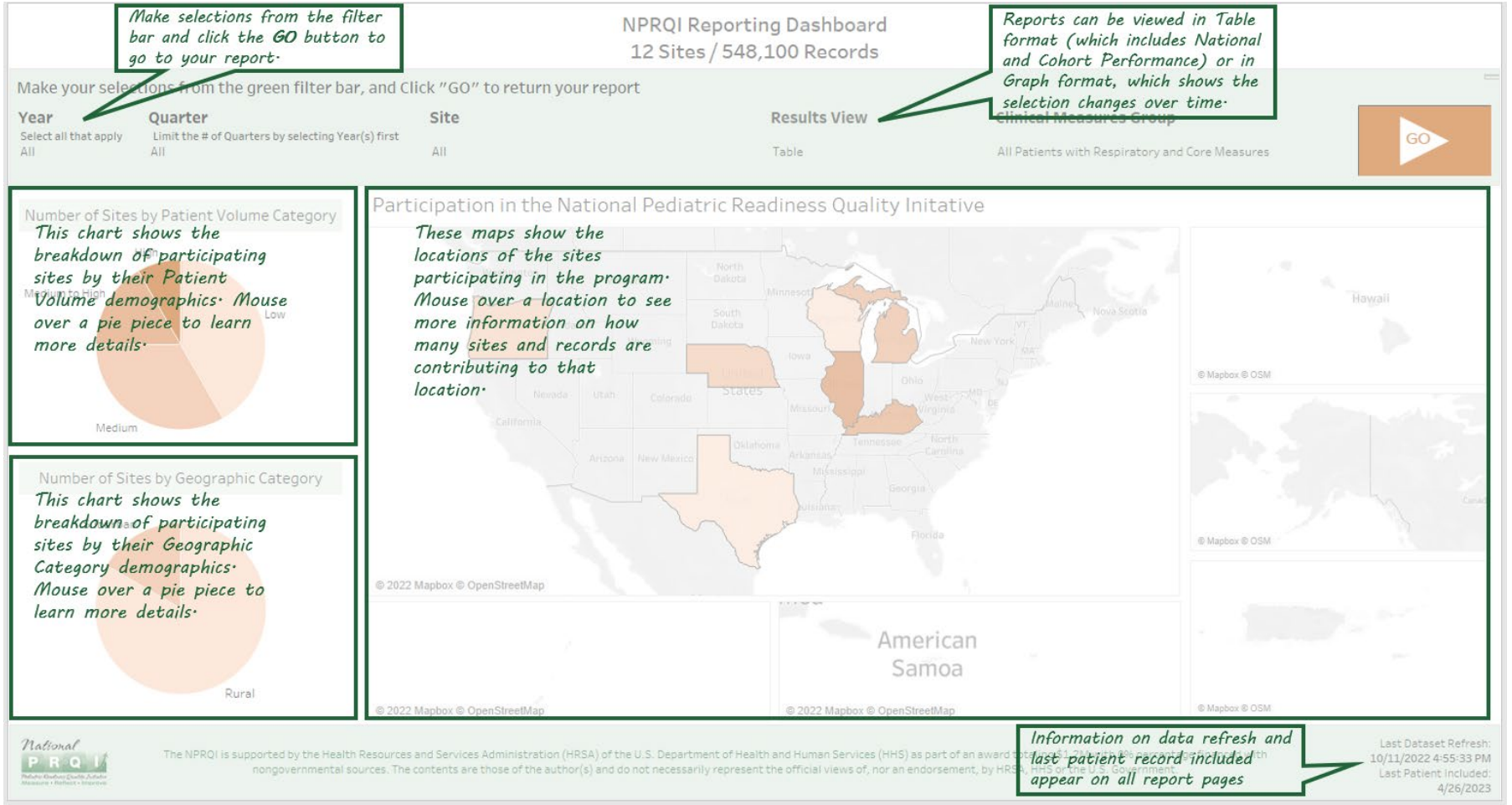
Dashboard Screenshot: Landing Page



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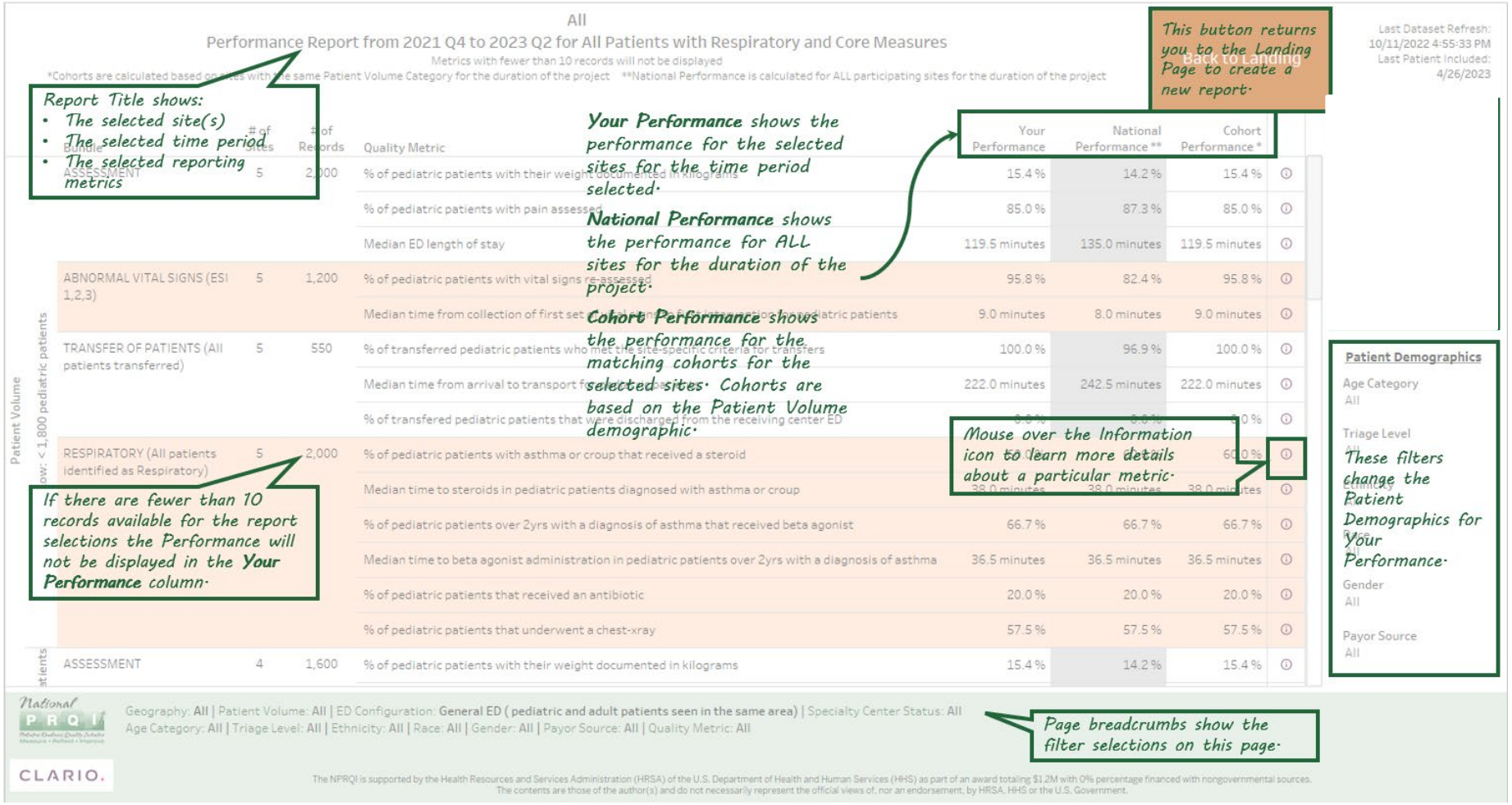
Dashboard Screenshot: Table View



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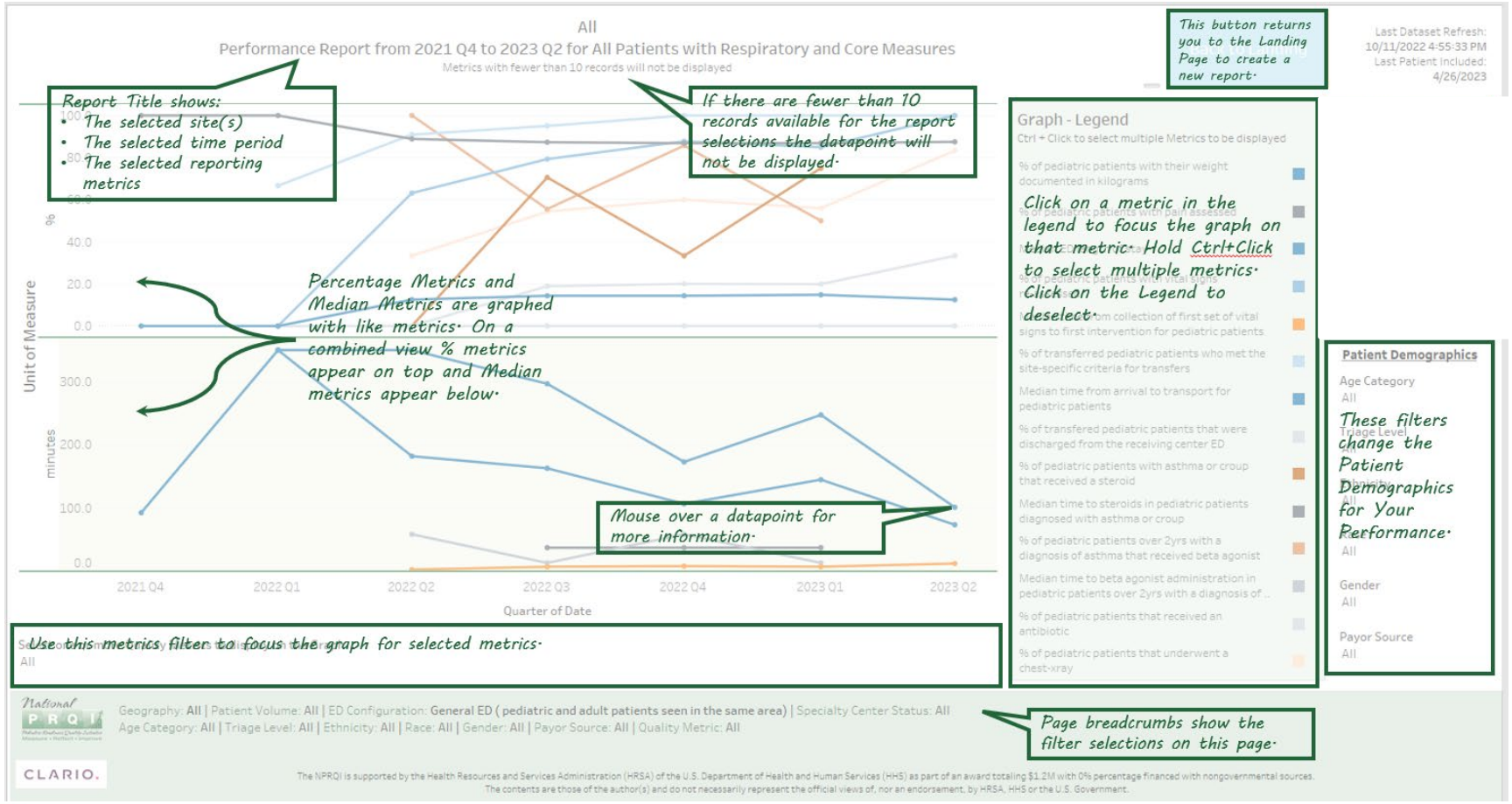
Dashboard Screenshot: Graphical View



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Complete Registration for the Data Platform

- Share demographics
- Provide data platform users
- *Include name, email, phone # of POA signatory*
- *Upload signed POA to data portal registration*

Complete your sites environmental scan

- September 19, 2023
- Survey to identify current gaps and clinical care processes existing in your ED
- Check with your team lead to confirm they have received the link to complete
- Only 53 sites have completed their environmental scan

Engaging Leadership and Baseline Data

September 19, 2023

Optional Office Hours

September 26, 2023

Join Us for Upcoming Sessions!

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Please Complete Session Evaluation

Thank you!

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Nursing - CE contact hours

Fireside Chat #6 September 5, 2023

1. Enter your first and last name in the **chat** if you have not done so already
2. Scan the QR code/use link to access session evaluation
3. Submit completed evaluation by 1700 (Pacific) on **9/7/2023** to be eligible for CE hours

https://bit.ly/PRQCFireside6

If you have any questions, please contact Robin Goodman at robin.goodmanrn@gmail.com

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BRN CE Provider: Pediatric Liaison Nurses Los Angeles County. Provider approved by the California Board of Registered Nursing, Provider # 15456, for 1 Contact Hours

Social Work Professionals – CEU's
Fireside Chat #6: September 5, 2023

1. Enter your first and last name in the **chat** if you have not done so already
2. Scan the QR code/use link to access session evaluation

https://utexas.qualtrics.com/jfe/form/SV_0qSgCeM7nXiG622

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Pediatric Readiness activities

- Special Interest Group Session
  - **Pediatric Emergency Care Coordinators/Pediatric Champions**
  - Friday, September 22 (9:30 am – 10:15 am)
- Fast Track Session
  - **The Kiddos are Coming! Is Your ED Ready for Children?: Exploring the Importance of Pediatric Readiness**
  - Saturday, September 23 (8:00 am – 8:30 am)
- Fast Track Session
  - **Is Your ED Pediatric Ready? The Answer May Surprise You!**
  - Saturday, September 23 (4:30 pm – 5:00 pm)
- Poster Q&A Session
  - **PECCs Make a Difference: How a Designated PECC Can Improve Pediatric Readiness**
  - Friday, September 22 (2:30 pm @ monitor 4)

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