

Emergency Department Update

Friday, August 19, 2022

Issue # 122

GENERAL

MONKEY POX

Proper PPE, including N95 respirators, gloves and gowns are the best protection against the virus. If you believe you've had an occupational exposure contact the needlestick hotline as soon as possible at 415-469-4411.

The Monkeypox Vaccine Clinic will be expanding their hours to Monday-Friday 8 AM-4 PM. They will also begin the new intradermal administration route for most patients, which will greatly extend the current supply of the vaccine. They continue to accept walk-in patients during the above hours. The clinic is located in Building 30, 2nd Floor, in the DET-Learning Center.

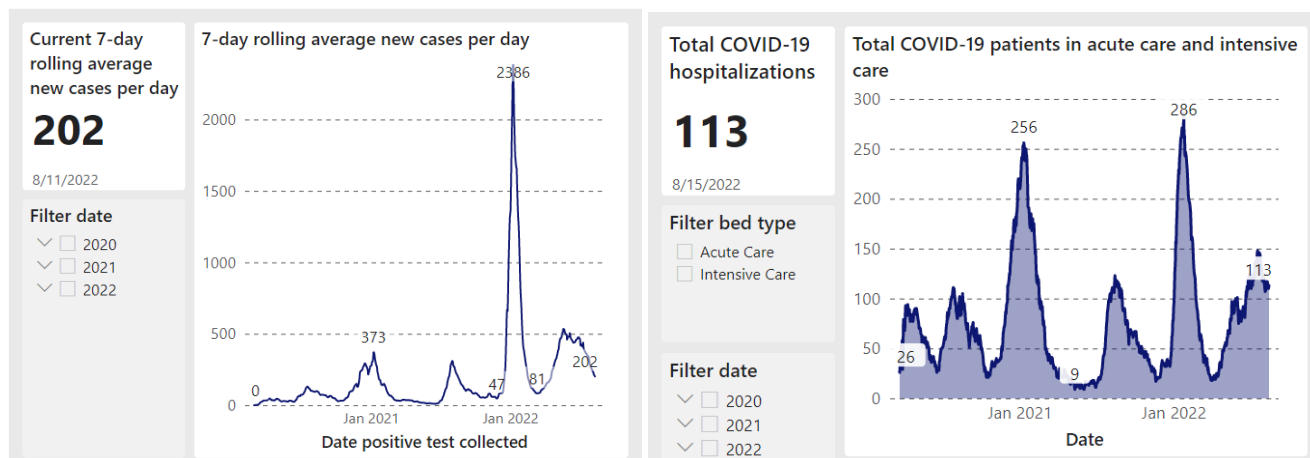
TROPONIN CARE PATH UPDATES

- There is a new blue check mark icon in the Trop column that indicates when there is nothing else to do for the care path because it is either ruled out, ruled in, or indeterminate because something went wrong. Once the blue check mark appears any remaining orders can be cancelled. See Tip Sheets at the end of this ED Update.

HOSPITAL COVID SURGE LEVEL

- As of, Friday, August 19, 2022 we have **26** COVID positive hospitalized patients at ZSFG putting us at a Hospital Surge Level of **YELLOW**

COVID-19 CITY WIDE DATA



Last week's number: 244

Last week's number: 117

STAFF COVID CASES

- Please wear your mask around other staff and always use minimum PPE required for patient contact (N95 and eye protection)

- Be smart about break times and eating/drinking. There are picnic tables in the ambulance bay and the cafeteria is accessible 24/7 via the badge access door at the back of the dining room.

EQUIPMENT, SUPPLIES, PRODUCTS

SUPPLIES/MEDICATION BACKORDERED

- Hotline tubing
- IV Contrast
- Ativan
- Paper tape
- 92" IV tubing—substitute is a longer 105" set

SUBGLOTTIC SUCTION ENDOTRACHEAL TUBE ("SETT")

Removal of subglottic fluids has been shown to reduce Ventilator Associated Events (VAE), reduce mechanical ventilation time, antibiotic use, and improve patient outcomes. ZSFG Respiratory Care Services trialed and approved the use of the NeVap Aspire Subglottic Suction Endotracheal (ASSETT) Tube. In addition to the standard ETT, these SETTs will be available for all intubations in the ED, ICU, and ORs.

ED RN's ... There is a new Subglottic Suction Endotracheal Tube (SETT) that has arrived in the ED and will replace current ETT stock as it runs out. RT will manage the new SETT use in the ED (more information to follow)

KEY POINTS FOR ED RNs:

- SETTs should be used with all patients expected to remain intubated >48 hours. Benefits pts in ICU, OR, or in ED for extended period of time.
- 2 vacuum regulators and suction set ups will be needed:
 - subglottic suction (SETT Tube)
 - oral/in-line suction (OG Tube)
- Respiratory Therapy in charge of set up, maintenance, and trouble shooting in ED
- If in use, cap for transport or per provider order.
- FYI: Subglottic suction port to continuous suction
 - Initiate suction settings at 20 mmHg and increase incrementally as needed based on secretion viscosity
 - Manufacturer suggested settings: 100-200 mmHg

CAUTION:

- Ensure subglottic suction port of SETT is clearly marked "SETT" by Respiratory Therapy
 - Luer lock syringes are compatible with the subglottic suction port of the SETT and therefore pose a potential safety risk for wrong connections.



PEM PEARL

Dina Wallin, MD, FACEP, FAAP

Hot off the presses in this month's *Annals of Emergency Medicine*-- [an article](#) describing the prevalence of **invasive bacterial illness (IBI)**, bacteremia and meningitis, in **infants 2-6 months** of age. We know that after introduction of highly effective vaccines against *Strep pneumoniae* and *Haemophilus influenzae* have dramatically decreased rates of IBI, but didn't know how significantly until now.

The authors studied **21,150 (!!!) previously healthy, well-appearing infants aged 2-6 months** who presented to the ED with a **temperature of $\geq 38^{\circ}\text{C}$** . Their findings:

- Overall IBI rate: **0.48%** (*case control-adjusted: 0.32%*)
- Of those infants: 88% had bacteremia only, 4% had meningitis only, and 8% had both
- Most common organisms: ***E. coli*, Group B Strep, and *Staph aureus***
- Contaminants were common in blood cultures, though rare in CSF cultures
- There was **wide variability** among sites with rates of antibiotic use and hospitalization, despite similar rates of IBI and outcomes

My take-aways from this? 1) Reinforcement of the fact that IBIs are very uncommon in well-appearing older infants, and these kids likely do not need much workup if any. 2) Blood cultures are often contaminated. 3) There is so much variability out there, with minimal impact on outcomes-- institutions may benefit from clinical pathways to streamline evaluation and management.

Our [evidence-based guideline](#) for febrile infants only goes up to 90 days, for this exact reason-- **well-appearing, previously healthy febrile infants older than 90 days (and likely older than 60 days) do not need routine blood cultures, lumbar punctures, empiric antibiotics, or admission.**

Hit me up with any questions-- I absolutely love this topic (and 10-25% of pedi ED visits are for fever, so it's super relevant).

QUICK TIPS FROM BERTSigns & Symptoms of Dementia

- Aggression & Anger
- Anxiety & Agitation
- Hallucinations
- Memory Loss & Confusion
- Suspicions & Delusions
- Wandering

Tips for Communicating with a Person with Dementia

- Set a positive mood for interaction
- Get the person's attention
- State your message clearly
- Ask simple, answerable questions
- Break down activities into a series of steps
- When communications seems difficult, distract and redirect
- Avoid asking questions that rely on short term memory
- Try to accommodate the behavior, not control it
- Keep in mind that most behaviors are triggered

Signs & Symptoms of Mania and Hypomania

- Increased energy
 - Inflated self-esteem or grandiosity
 - Pressured speech
 - Flight of ideas or racing thoughts
 - Easily distracted by unimportant or irrelevant stimuli
 - Lack of social inhibitions
 - Decreased need for sleep
 - May experience psychotic symptoms
- *Hypomania is characterized as a milder degree of mania with no psychotic symptoms present.*

Attempt the following interventions when safe:

- Maintain a low level of stimuli
- Keep environment clutter-free and free from dangerous objects
- Intervene at first sign of anxiety, agitation, or verbal aggression
- Maintain a calm demeanor
- Promote sleep by administering as ordered sleep medication and avoid caffeinated drinks at bedtime
- If possible, request finger foods at mealtimes that can be consumed when a patient is hyperactive

ACLS-BLS CERTIFICATION

September

9/8 & 9/9 ACLS Initial (2-day course)

9/29 PALS Renewal

October

10/7 ACLS for Experienced Providers

November

11/3 PALS Renewal

11/17 ACLS for Experienced Providers



Visit [ZSFGLEARN.org](https://www.zsfglearn.org) to Register

CELEBRATIONS/ANNOUNCEMENTS

CELEBRATIONS

Send me your celebrations (david.staconis@sfdph.org) that you would like included in the ED Updates and I will share them here.

Thank you to all the staff working on 8/12/22. Was an extremely busy night in resus. Everyone chipped in to help. Appreciate you all! ~**Rob Alvernaz, Charge Nurse**

We have a new experienced ED RN starting with us next week, **Adi Chandan, RN**. Please say hi introduce yourself and give a warm welcome to Adi. ~**Dave Staconis, ED Nursing Director**

A shout-out to **Rob Alvernaz, Charge Nurse** for starting Sunday night with a bang after a challenging day shift. Rob was able to prioritize pediatric patients in Pod B, maintaining flexibility and even helping with the kids himself. Rob went above and beyond for our pediatric patients and our PEM Attending **Dina Walin, MD** and the kids really appreciated it! Thanks Rob!

SECURITY ALERT

SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH

SAFETY AND SECURITY



IT'S EVERYONE'S BUSINESS

Burglary Incident on Vermont Street, August 18, 2022

On August 18, 2022, at 6:00 PM, while parked on Vermont Street, a hospital employee's vehicle was burglarized while they were seated inside the vehicle.

The employee reported to Sheriff's deputies that they heard the vehicle's rear window shatter, and through the rearview mirror, they observed a black male, slim, approximately 5 feet tall wearing all black and a ski-mask that covered his face.

The individual reached into the rear seat and took the employee's bags, then walked northbound on Vermont Street then westbound on 22nd Street towards Potrero Avenue.


The employee drove to the hospital where they were assisted by deputies. A search for the individual produced negative results.

This incident serves as a reminder of the listed safety tips:

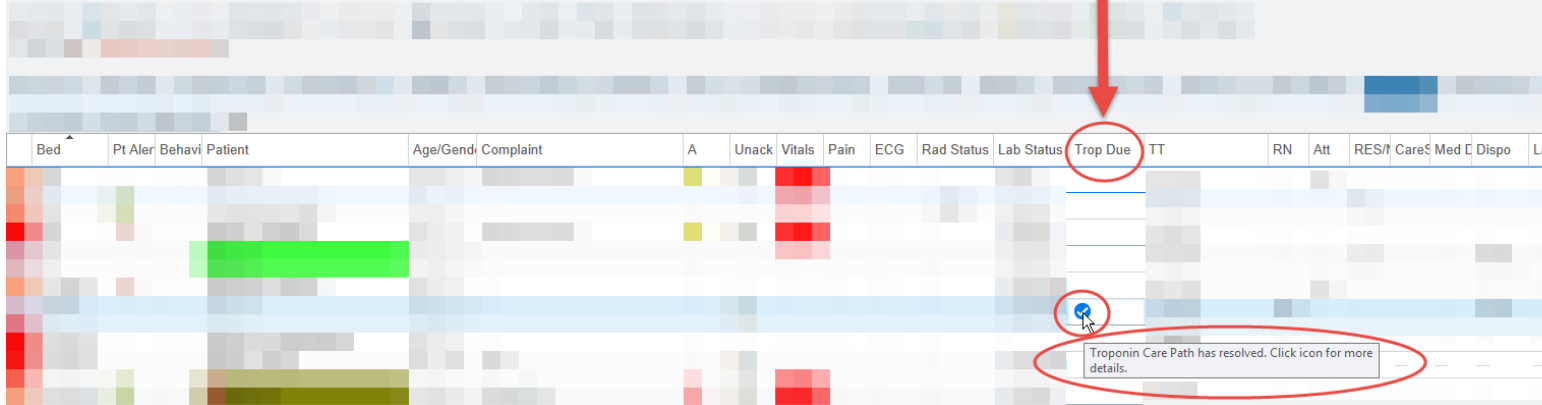
Safety Tips:

- The Sheriff's Office will provide 24/7 personal safety escorts, within ½-mile radius of the hospital campus, including 24th Street BART. To request an escort, call 628-206-8063 (x68063.) Please provide a 20-minute lead time for escort appointments.
- Do Not Leave Valuables in Sight - (phones, pagers, purses, wallets, etc., invite theft)
- Once you're inside your vehicle, don't linger. Immediately exit or enter your vehicle, lock your doors, and drive away.
- Stay alert and attuned to people and circumstances around you.
- Call 911 to report a crime being committed or the Sheriff's Operations Center, to report a security emergency - (628) 206-4911 (x64911.)


ED Troponin Care Path Update – 8/12/2022

- New nursing Track Board icon  indicates Care Path completion
- Upon resolution, any remaining troponin orders are not required & may be discontinued

ED Track Board (ZSFG ED)



Bed	Pt Aler	Behavi	Patient	Age/Gend	Complaint	A	Unack	Vitals	Pain	ECG	Rad Status	Lab Status	Trop Due	TT	RN	Att	RES/	CareS	Med C	Dispo	L

- Clicking on the icon  will open the patient chart to the Care Paths tab
- Check the box next to Resolved to display completed Care Paths - ☒ [Resolved](#)

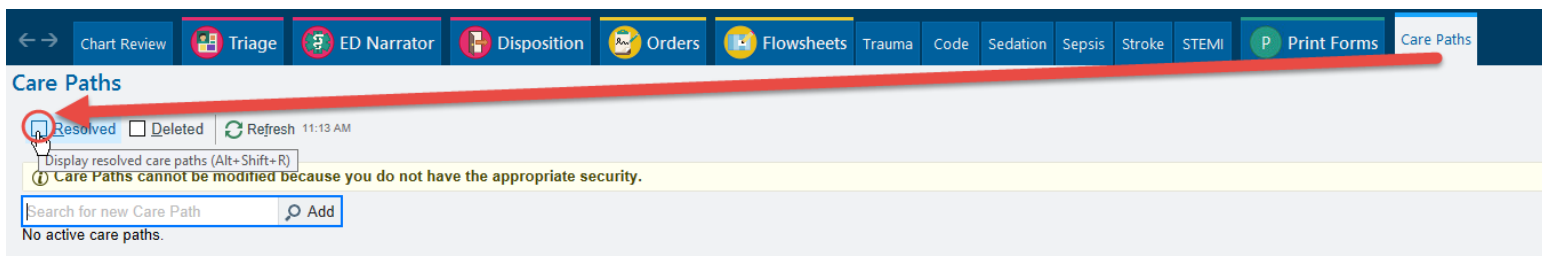


Chart Review Triage ED Narrator Disposition Orders Flowsheets Trauma Code Sedation Sepsis Stroke STEMI **P** Print Forms **Care Paths**

Care Paths

☒ Resolved ☐ Deleted Refresh 11:13 AM

Display resolved care paths (Alt+Shift+R)

Care Paths cannot be modified because you do not have the appropriate security.

Search for new Care Path Add

No active care paths.

- The Care Path determination will be shown here – Abnormal/Indeterminate/Ruled-Out

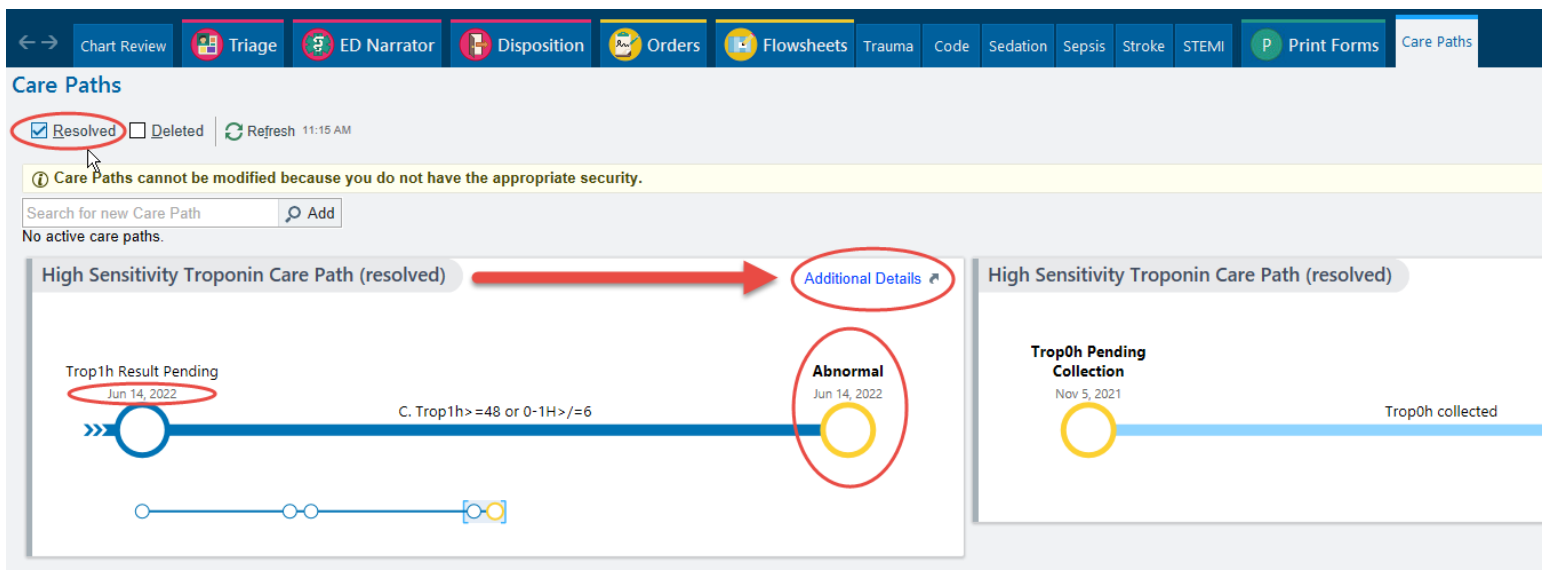


Chart Review Triage ED Narrator Disposition Orders Flowsheets Trauma Code Sedation Sepsis Stroke STEMI **P** Print Forms **Care Paths**

Care Paths

☒ Resolved ☐ Deleted Refresh 11:15 AM

Care Paths cannot be modified because you do not have the appropriate security.

Search for new Care Path Add

No active care paths.

High Sensitivity Troponin Care Path (resolved) [Additional Details](#)

Trop1h Result Pending Jun 14, 2022

C. Trop1h >=48 or 0-1H >=6

Abnormal Jun 14, 2022

High Sensitivity Troponin Care Path (resolved)

Trop0h Pending Collection Nov 5, 2021

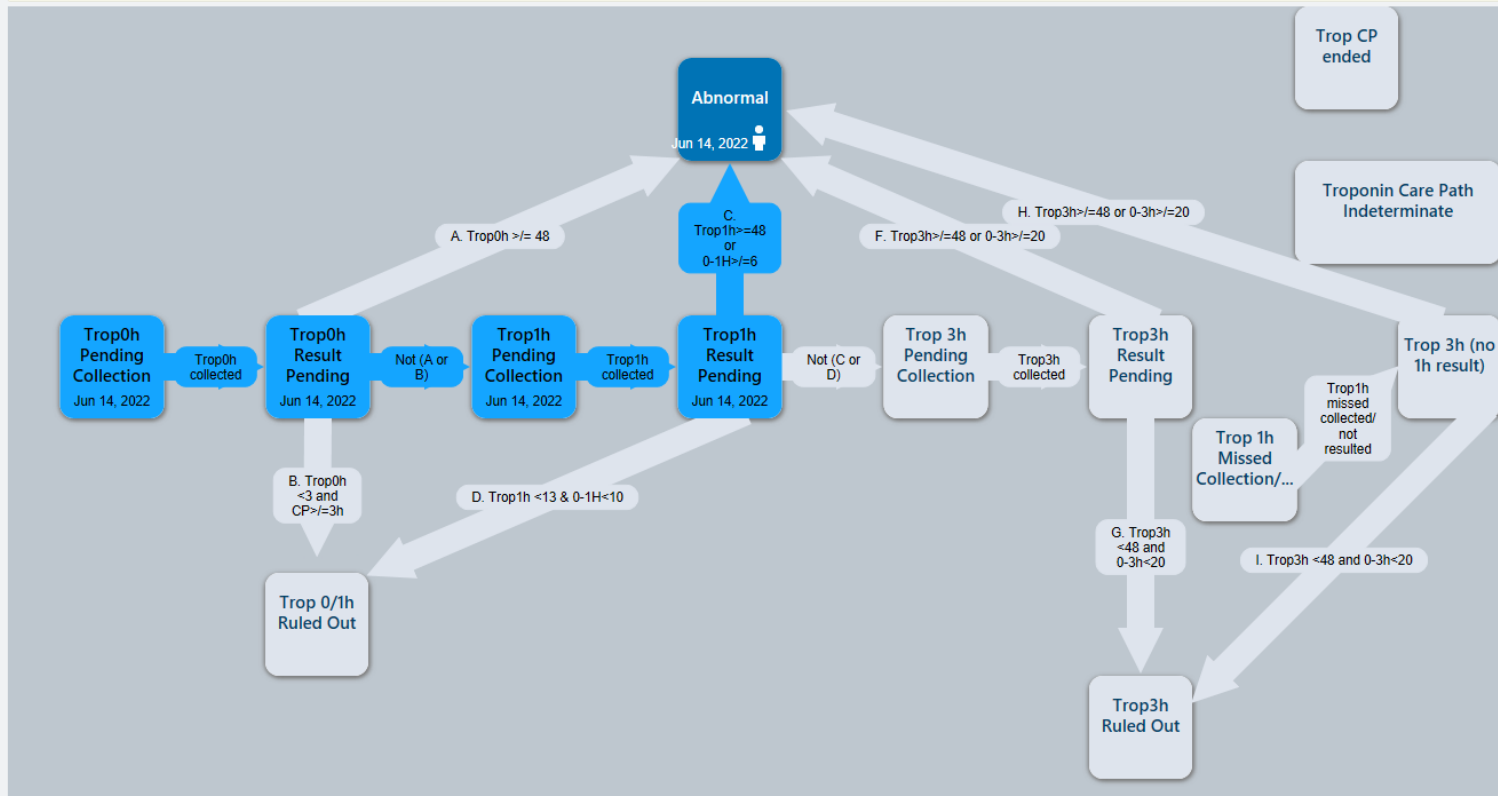
Trop0h collected

- More detailed pathway information can be found via the [Additional Details](#) link

Care Path Details - High Sensitivity Troponin Care Path - Resolved

100%
 [Unresolve](#)
[Delete](#)
[Refresh](#) 11:17 AM
 [Show Advisories \(0\)](#)

ⓘ Care Paths cannot be modified because you do not have the appropriate security.



➤ Additional resources can be found on the ED Learning Home dashboard

ED/PES Department Learning Home

What's New for ED/PES Nurses

- ED MONKEYPOX ORDER AND SPECIMEN COLLECTION**
PLEASE REVIEW THIS TIP SHEET AND FOLLOW THE STEPS TO PROPERLY ORDER AND COLLECT A MONKEY POX SPECIMEN
Wed 7/6 11:23 AM - Krista S Longinotti, RN
- HIGH SENSITIVITY TROPONIN CARE PATH**
Epic RELEASE 5/31
ED PROVIDER HIGH SENSITIVITY TROPONIN CARE PATH IMPLEMENTATION SLIDE DECK
ED NURSE TROPONIN CARE PATH WORKFLOW TIP SHEET
ED NURSE SUPPLEMENTAL QUICK REFERENCE GUIDE - TROPONIN CARE PATH
Fri 5/27 01:38 PM - Krista S Longinotti, RN - (Edited)
- COVID-19 ED UPDATES**
PLEASE CLICK ON LINKS BELOW FOR MOST UP TO DATE INFORMATION
NEW! UPDATED PATIENT COVID STATUS ON THE STORYBOARD
UPDATE!! CHANGES TO COVID SCREENING
8/19/20 - INCLUDES NEW QUESTION AND SYMPTOMS THAT TRIGGER THE BPA
[COVID-19 Screening Standard Procedure Workflow](#)
LAST UPDATED : 3/13/20
[ZSFG COVID-19 ID ALGORITHM](#)
[COVID-19 TIP SHEET](#)
[PPE](#)

ZSFG Emergency Forms

- AMA
- DTap - Less Than 7 Years (English)
- DTap - Less than 7 Years (Spanish)
- DTap - Less than 7 Years (Chinese)
- Flu
- Flu (Spanish)
- Flu (Chinese)
- MRI Screening Form (English)
- MRI Screening Form (Spanish)
- MRI Screening Form (Chinese)
- TDap - Adults, Children Older Than 7 Years (English)
- TDap - Adults, Children Older than 7 Years (Spanish)
- TDap - Adults, Children Older than 7 Years (Chinese)
- Regen-Cov Fact Sheet (Chinese)
- Regen-Cov Fact Sheet (English)
- Regen-Cov Fact Sheet (Russian)
- Regen-Cov Fact Sheet (Spanish)

Time Savers

- ED NURSE UPDATED WORKFLOW: ED Pregnancy Alert Status and POCT Results Tip Sheet**
Please refer to this tip sheet to learn how to resolve Pregnancy Alert Status and enter/edit POCT U Preg Results **WITH** assigned LOT Number.
Wed 2/16 06:04 AM - Krista S Longinotti, RN
- ASAP Upgrade Materials**
Aug 2021 Version LIVE 1/19/22
Mon 1/24 10:17 AM - Krista S Longinotti, RN
- FALL DST PROCEDURE - November 7**

ED Nurse Quickstart Guides

- ED Education Topics
- Belmont Rapid Infuser
- Chest Drainage Video
- Emergency Video

Useful Links

- Epic Home Page
- Amion
- Avatar
- CCMS
- CDU
- COVID Resources by County
- CURES
- Dynamed
- eDrive
- E Value
- ED Discharge and Care Coordination Group Playbook
- ED Documents
- EDIE
- EM Residency
- eMedicine
- Hep A English
- Hep A Spanish
- Hospital Forms
- IVCompatibility
- Latino Task Force Website
- Lexi-Comp
- Med List
- MedHub
- NEAR
- Paging-Tiger Co
- Paramedic Report DPH (EMTP)
- Pedi Med Dosing
- Peds CHOP Recs
- Peds Resusc
- Peds Sedation
- Proced Consult
- QGenda
- Radiologue Bd
- SFGH COVID
- SFGH ED Website
- SFGH IV Guide
- Shift Admin
- Shift Admin +

Pediatric EM Pearls

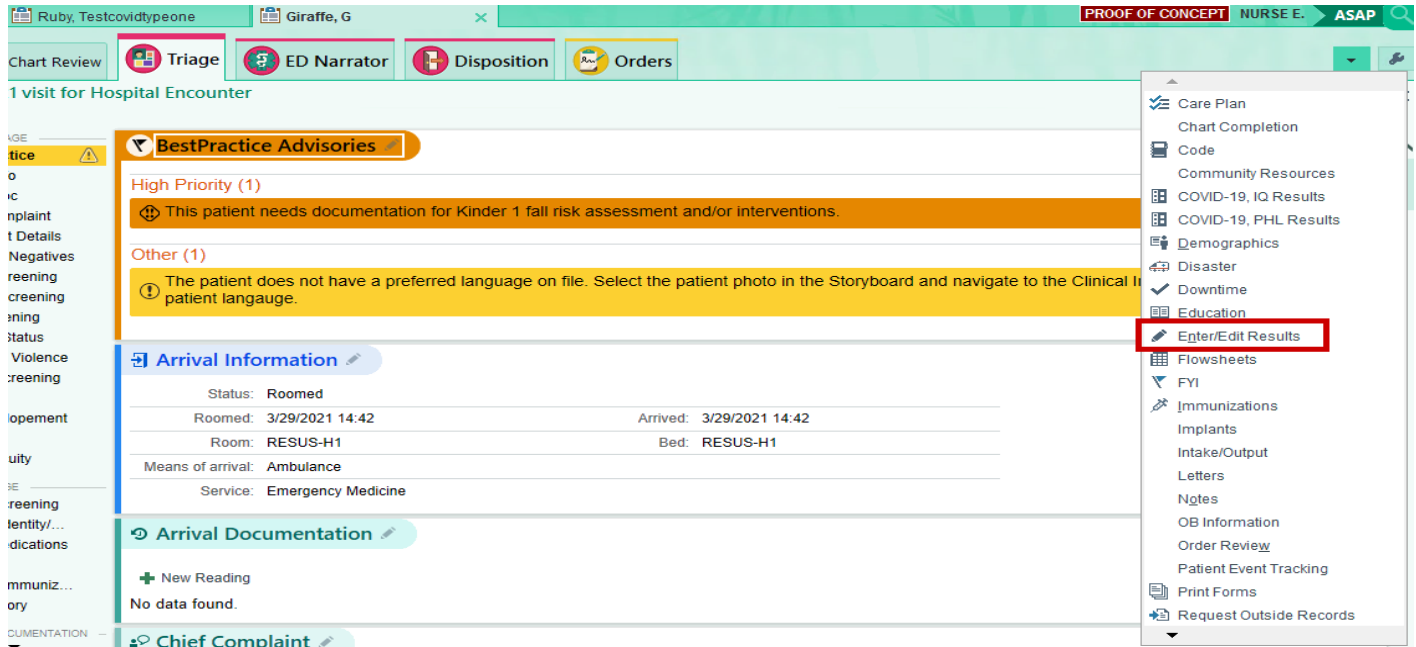
- PEARL OF THE WEEK 8/1/22**
We debuted our **pediatric blunt torso trauma pathway** back in July 2020, and on

Enter/Edit Result: BINAX POCT

This tip sheet walks through the process of entering the test and result of the BINAX Covid Test performed by SFFD.

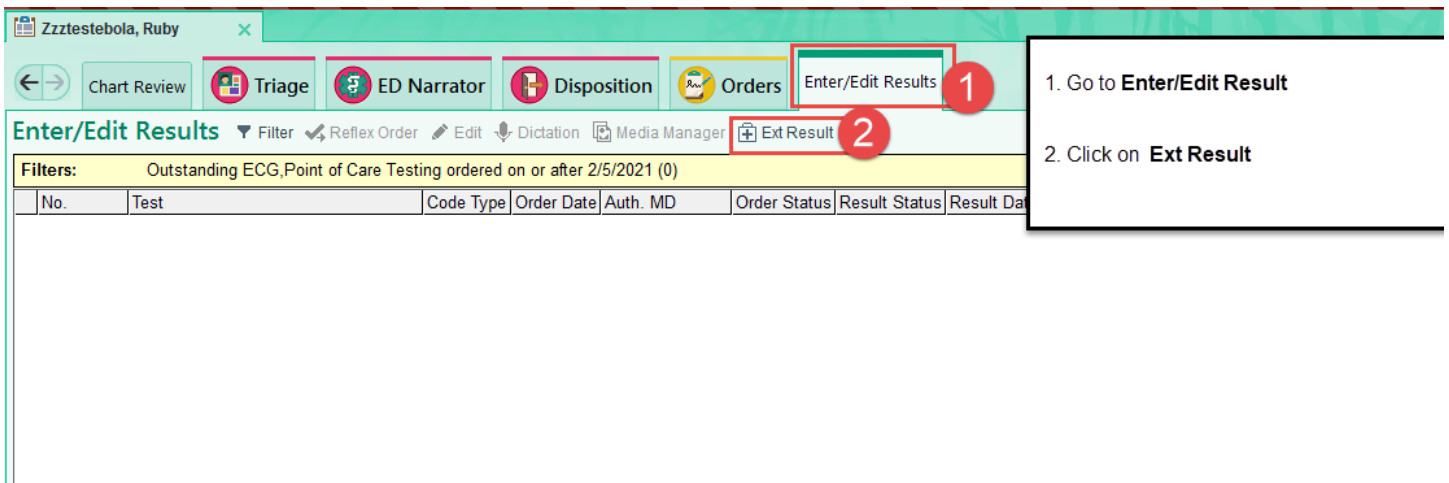
Enter Test & Result

1. In the patient's chart, from the More Activities drop down menu, select Enter/Edit Results



The screenshot shows the Epic EMR interface for a patient named Ruby, Testcovidtypeone. The 'More Activities' dropdown menu is open, and the 'Enter/Edit Results' option is highlighted with a red box. The menu includes options like Care Plan, Chart Completion, Code, Community Resources, COVID-19, IQ Results, COVID-19, PHL Results, Demographics, Disaster, Downtime, Education, Enter/Edit Results, Flowsheets, FYI, Immunizations, Implants, Intake/Output, Letters, Notes, OB Information, Order Review, Patient Event Tracking, Print Forms, and Request Outside Records.

2. From the Enter/Edit Results activity, click on 'Ext Result' from the toolbar.



The screenshot shows the 'Enter/Edit Results' screen in the Epic EMR interface. The 'Ext Result' button is highlighted with a red box and a red circle with the number 2. The toolbar also includes buttons for Filter, Reflex Order, Edit, Dictation, Media Manager, and Ext Result. A callout box on the right contains the following instructions:

1. Go to **Enter/Edit Result**
2. Click on **Ext Result**

3. In the Additional Test field, type in EMS
 - a. The Ordered By and Ordered Date field are *SOFT* stops and do not need information entered.
4. Click Create Result

The screenshot shows a software window for creating test results. On the left is a list of test categories, each with a plus icon: Chemistry, Hematology/coagulation, Microbiology, Immunology, Urine/stool, Drug Levels, Cytology/pathology, Body Fluid, Cytogenetics, HCV Treatment, COVID Test, and Additional Tests. To the right of this list are 'Expand All' and 'Collapse All' buttons. Below the list is the 'Additional test:' label followed by a text input field containing 'EMS'. A red box highlights the 'EMS' text, and a blue box highlights the input field. To the right of the input field is an 'Add' button. Below the 'Additional test:' field is the 'Ordered by:' label followed by a dropdown menu. A red box highlights the dropdown menu, which shows a 'Recent' section with the entry 'POCT COVID, BINAXNOW [POC138] (EMS)'. To the right of the dropdown is a search icon. Below the 'Ordered by:' field is the 'Order date:' label followed by a date input field with a yellow warning triangle icon and a calendar icon. At the bottom right are 'Create Results' and 'Cancel' buttons.

5. To enter the result, please enter information into the following fields.
 - a. Remove the default nurse name in the Collected by section (5)
 - b. Remove the hospital name in the Lab Name section (6)
 - c. Key in the **value** based on the Paramedic Report Sheet (7)
 - d. Key in the **lot number** based on the paramedic report sheet (8)
 - e. Select the **result** based on the paramedic report sheet (9)
 - f. Change the status of the result to **Final** (10)
 - g. In the comment field, type in "Test Performed by SFFD"
6. Click Accept

Enter/Edit Results Filter Reflex Order Edit Dictation Media Manager Ext Result

Filters: Outstanding ordered on 5/6/2021 (1)

No.	Test	Code Type	Order Date	Auth. MD	Order Status	Result Status	Result Date	Comp	Priority	Follow-up	Prov Stat
128391	POCT COVID, BINAXNOW (POC138)	Custom	05/06/2021	PROVIDER, HIS	Ordered			Yes	Routine		Ordered

The COLLECTED BY and LAB NAME fields are filled by default. Remove the default nurse name in the collected by section and the hospital name in the Lab name section.

5. Remove nurse name in Collected By field
6. Remove hospital name in Lab name field
7. Key in the value based on the paramedic report sheet
8. Key in the lot number based on the paramedic report sheet
9. Select the **RESULT** based on the paramedic report sheet
10. Status>>>change it to **FINAL**
11. Comment field. Type in **'Test performed by SFFD'**
12. Click **ACCEPT**

Specimen
 Type: Swab [102]
 Collected by: EMERGENCY, NUI (5)
 Collection date: 5/6/2021
 Collection time: 11:30 AM

Resulting Lab
 Lab name: ZUCKERBERG SAN FR. (6)
 Technician:
 Providers:
 Billing: PROVIDER, HISTORICA
 Resulting:

Results Message
 Recipient: (6)
☒ Send results message ☐ Cc list only

Components Sensitivities Narrative Impression

Component	Value	Low	High	Ref Range	Units	Comment
DPH SARS-COV-2 AG [1]	(7)					
LOT NUMBER COVID Bif	(8)					

Result
 Date: 5/6/2021
 Time: 11:30 AM
 Abnormal: (9)
 Status: In process (10)

(12) **Accept** Accept/Next
 Discard Changes

Enter/Edit Results Filter Reflex Order Edit Dictation Media Manager Ext Result

Filters: Outstanding ordered on 5/6/2021 (1)

No.	Test	Code Type	Order Date	Auth. MD	Order Status	Result Status	Result Date	Comp	Priority	Follow-up	Prov Stat
128391	POCT COVID, BINAXNOW (POC138)	Custom	05/06/2021	PROVIDER, HIS	Ordered			Yes	Routine		Ordered

Specimen
 Type: Swab [102]
 Collected by: (5)
 Collection date: 5/6/2021
 Collection time: 11:30 AM

Resulting Lab
 Lab name: (6)
 Technician:
 Providers:
 Billing: PROVIDER, HISTORICA
 Resulting:

Results Message
 Recipient:
☒ Send results message ☐ Cc list only

Components Sensitivities Narrative Impression

Component	Value	Flags	Low	High	Ref Range	Units	Comment
DPH SARS-COV-2 AG [1]	Positive (inter	Abnormal					
LOT NUMBER COVID Bif	235454						

Result
 Date: 5/6/2021
 Time: 11:30 AM
 Abnormal: Abnormal (9)
 Status: Final (10)

Accept Accept/Next
 Discard Changes

This is what it should look like

View Binax Result

1. To view the Binax result in the patient chart, enter Chart Review
2. Select Labs
 - a. The test will be listed as POCT COVID BinaxNOW
3. The Patient's Covid-19 status will automatically update the storyboard as well

The screenshot displays the Epic EMR interface for a patient named Ruby Zzztestebola. The 'Chart Review' tab is selected, and the 'Labs' sub-tab is active. A table lists the test results, showing 'Today at 11:38' for 'POCT COVID BinaxNOW'. A callout box titled 'To View Result' provides instructions: '1. Click CHART REVIEW' and '2. SELECT LABS', followed by the note 'The Covid section of the Storyboard gets automatically updated as well.' The left sidebar shows patient information, including MRN 200001306 and a COVID-19 status of 'Confirmed 5/6/2021'.

Chart Review

Encounters Notes **Labs** Imaging Cardiology Procedures Meds LDAs Media Letters Episodes Referrals Other Orders Microbiology

Refresh (11:32 AM) Route Review Selected Preview Encounter Results Review Lab Flowchart Apply Default Sorting View/Play Add to Bookmarks

Filters Hide Canceled Micro Path/Cyto w/Results

Altas Resi Date/Time	Test
Today	
Today at 11:38	POCT COVID BinaxNOW

To View Result

1. Click CHART REVIEW
2. SELECT LABS

The Covid section of the Storyboard gets automatically updated as well.

Patient Information:
Ruby Zzztestebola
Female, 23 y.o., 1/1/1998
MRN: 200001306
Total Time: 887:25
Code: Assume Full (no ACP docs)
SSN: xxx-xx-8787

COVID-19 Status:
No assigned Attending
COVID-19: Confirmed 5/6/2021
Isolation: None