



PRoMPT BOLUS

PRagMatic Pediatric Trial of Balanced vs nOrmal Saline FIUid in Sepsis



PRoMPT BOLUS Update for CC Best Practice Alert (BPA) integration

Protocol Version: 2.0, 27-Apr-2022
Date: 20-Oct-2022

What's the deal with Best Practice Alerts (BPAs)?

- BPAs are designed to guide clinician decisions in the CC environment
- BPAs will appear on the CC screen if a specific set of criteria are met, presenting the clinician with defined options

The PRoMPT BOLUS BPA

- The purposes of the PRoMPT BOLUS BPA are to
 - Help ED clinicians identify potential study participants for this pragmatic trial
 - Support communication with ED and Inpatient teams related to participant enrolment.

Note: The BPA does NOT replace the other processes of screening, completing eligibility forms, opening randomization envelopes and treating the participant.

What does the PB Study BPA look like?

BestPractice Advisory - Research, ElliesBoy

High Priority (1) ⬆

This child potentially has sepsis;
⚠ Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion?
If YES, assess patient for P_{Ro}MPT BOLUS Study and complete eligibility form

Respond to Study **Do Not Respond** Research Study Build Record

Enrolled
 Declined

✓ Accept Dismiss

This is the main alert that you will see

When will the BPA show up?

The PB Study BPA trigger criteria include

- Aged 6 to < 18yo
- Sepsis Screen positive OR sepsis/septic shock is added as a diagnosis or in the problem list
- ACH or Stollery only
- It will notify the clinician when the Orders activity is opened.

The screenshot displays a clinical software interface. At the top, a navigation bar includes tabs for 'Disposition', 'Orders', 'Therapy Plan', 'LDA Avatar', and 'Notes'. The 'Orders' tab is currently selected and highlighted in blue. An orange arrow labeled 'Orders Tab Opened' points to this tab. Below the navigation bar, the main content area shows a 'High Priority (1)' notification. The notification has an orange header and contains the following text: 'This child potentially has sepsis; Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion? If YES, assess patient for PRoMPT BOLUS Study and complete eligibility form'. Below the text are two buttons: 'Respond to Study' and 'Do Not Respond'. To the right of these buttons is a section titled 'Research Study Build Record' with two radio button options: 'Enrolled' and 'Declined'. At the bottom right of the notification are 'Accept' and 'Dismiss' buttons. An orange arrow labeled 'BPA appears on screen' points to the notification area.

BPA appears on screen

What should I do to **ENROLL** a patient?

BestPractice Advisory - Tagaryen, Aegon

High Priority (1)

This child potentially has sepsis;
⚠️ Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion?
If YES, assess patient for PRoMPT BOLUS Study and complete eligibility form

Respond to Study Do Not Respond

Research Study Build Record

Enrolled
 Declined

✓ **Accept** Cancel

To ENROLL a participant (i.e. eligibility criteria met and you are opening a randomization envelope, click on:

Enrolled & Accept

If you enroll a participant, you will see...

The screenshot shows the 'Chart Review' interface. At the top, there are navigation tabs: Chart Review, ED Assessment, ED Narrator, Disposition, Orders, Therapy Plan, and LDA Avatar. Below these are sub-tabs for Encounters, Notes, Labs, Imaging, Cardiology, Procedures, Meds, LDAs, Media, Letters, Episodes, Referrals, and Other Orders. A secondary row of options includes ED Summary, SnapShot, Overview, Interfacility Report, Plan of Care, and Nursing Handover Report. A 'Select Time Range' input field is visible. At the bottom, a prominent orange banner contains the text: 'Patient has been enrolled as a study participant in PRoMPT BOLUS Study. Continue the fluid as ordered per study protocol'. An orange arrow points from this banner to the first list item below.

1) A bright **orange** Banner located on Chart Review ED Summary
This is specific to PRoMPT BOLUS

2) A **yellow** Research Participant notification on the Story Board
This is generic to all research study enrolments

These will stay in place during the intervention window
(until 23:59 the day after randomization)

The screenshot shows the 'Research Studies' interface. On the left, a patient profile for 'Aegon Tagaryen' is displayed with details: Male, 11 m.o., 22/10/2021, MRN: 1000291557, ULI: No Value Set, Total Time: 03:31, ACP/GCD: Not on file, Other Clinical Systems: None, Consent Navigator, Precautions: None, Isolation: None, and a yellow 'Research Participant' notification at the bottom. On the right, the 'Research Studies' section shows an 'Active' status and a table with columns for Study Type, Study Code, and IRB#. The table contains one row: 'Enrolled', 'Interventional', '12345', and 'Pro123'. Below the table are links for 'Adverse Events', 'Description' (Test study for Research Build and workflow testing), and 'Next Study Visit' (No upcoming study visits). A yellow arrow points from the second list item to this interface.

What should I do to **DECLINE** enrolment?

BestPractice Advisory - Research, Baby Carrot

High Priority (1)

This child potentially has sepsis;
⚠ Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion?
If YES, assess patient for PRoMPT BOLUS Study and complete eligibility form

Respond to Study Do Not Respond

Research Study Build Record

Enrolled
 Declined

Accept Cancel

To DECLINE a participant (does not meet eligibility criteria), click on:

Declined

& Accept

NOTE: If you decline, ALL notifications will disappear.

What if I'm unsure & need to check Eligibility?

BestPractice Advisory - Research, ElliesBoy

High Priority (1)

This child potentially has sepsis;
⚠️ Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion?
If YES, assess patient for PRoMPT BOLUS Study and complete eligibility form

Respond to Study Do Not Respond Research Study Build Record

Enrolled
 Declined

Accept Dismiss

1) Click on **Dismiss**.

A small orange BPA notification will appear on the Story Board (hover to discover)

FTCH

Aegon Tagaryen
Male, 11 m.o., 22/10/2021
MRN: 1000291557
ULI: No Value Set
Total Time: 00:13
ACP/GCD: Not on file
Other Clinical Systems: None
Consent Navigator

Precautions: None
Isolation: None

⚠️ Patient potential for research study

No assigned Attending

Allergies
No Known Allergies
Alerts from Patient FYIs: None

Orders

Active Orders Quick Lists Signed and Held Conditional and PRN Orders Order History

Sort by: Order Type

This child potentially has sepsis;
⚠️ Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion?
If YES, assess patient for PRoMPT BOLUS Study and complete eligibility form

- 2) Complete a Study Eligibility Form, Sign & Date
- 3) Go back into CC. Click on orders tab...the BPA will appear back on your screen for completion. Choose Enrolled or Declined, then Accept.

BestPractice Advisory - Research, ElliesBoy

High Priority (1)

This child potentially has sepsis;
⚠️ Are you administering at least one IV/IO fluid bolus for resuscitation and additional fluid for poor perfusion?
If YES, assess patient for PRoMPT BOLUS Study and complete eligibility form

Respond to Study Do Not Respond Research Study Build Record

Enrolled
 Declined

Accept Dismiss

And to review....

- 1) If BPA criteria are met, an orange study visual will appear when you try to place an order
- 2) If the child **is PB eligible**, click “Enrolled” and “Accept”.
- 3) If the child **is NOT PB eligible**, click “Declined” and “Accept”
- 4) If you are **unsure about eligibility**, click “Dismiss”. Go complete the eligibility form. Come back to CC, go into Orders and complete the BPA, “Enrolled” or “Declined” as above.

Feedback

- This is the 1st research BPA put into CC in Alberta.
- We will be testing this BPA for the next 3 months.
- We would love to hear your feedback during this time. Please send us any thoughts by email.
 - graham.thompson@ahs.ca
 - bmmickie@ucalgary.ca