

# JHH Adult ED – XPERT Influenza Testing Workflow

## How to document the Barda Flu Study Screening

A departmental initiative around influenza testing in the JHH Adult ED will begin on October 1, 2014 and will run through April 30, 2015. This is related to the BARDA Flu study in which researchers seek to determine whether or not the use of EMR-Based clinical decision support and rapid influenza diagnostic testing improves the diagnosis of influenza (flu) in the emergency medicine environment. ALL patients assessed at triage will need to be screened.



### Try It Out

1. In the TRIAGE navigator, the nurse will click on the **Barda Flu Study** tab and ask the patient four yes/no questions.
2. An Xpert Flu Study Screening Score is automatically tallied. Close the window and a score of 3 or higher will generate a Best Practice Advisory window indicating an Xpert Flu test order should be placed.

The screenshot displays the Epic EMR interface. The main window is titled "Barda Flu Study - Barda Flu Study Screening". It shows a patient's visit information and a series of screening questions with response buttons:

- Cough, new or increased in last 7 days? (Buttons: 2=Yes, 0=No, Pt unable to answer)
- New Headache in last 7 days? (Buttons: 1=Yes, 0=No, Pt unable to answer)
- Fever (subjective) in the last 7 days? (Buttons: 1=Yes, 0=No, Pt unable to answer)
- Temperature of 100.4 F (38 C) or greater? (Buttons: 1=Yes, 0=No, Unable to assess)

The "Xpert Flu Study Screening Score" is displayed as 3. Below the screening window, a "BestPractice Advisory" window is open, titled "Xpert Flu testing indicated - Order Xpert Flu test". It contains the following text:

Acknowledge reason:  Patient refused  Pt dx w/ influenza within prev 48 hr...  Other (comment)

Place order: XPERT Flu test  
(Last done by Cathleen Lindauer, RN on 9/29/2014 at 3:23 PM)

Buttons for "Accept" and "Cancel" are visible at the bottom of the advisory window.

3. The box to place the order will already be checked, and the user will just click ACCEPT to open up the ORDERS tab.
  - NOTE: If the patient refuses to be tested or there is some other reason the order will not be placed, an acknowledge reason must be specified in order to continue with chart documentation.
4. Once in the ORDERS tab, sign the order with the defaulted order mode PER PROTOCOL COSIGN REQUIRED.

- The nurse will then go into the ED Narrator, acknowledge the order and complete the task. This Flu test is sent to the lab via a paper requisition.

The screenshot shows the ED Narrator interface with the following sections:

- Refresh**, **Code**, **Sedation**, **Blood Admin/Protocols** buttons.
- Expand All** and **Collapse All** options.
- There are no active alerts** message.
- MAR** section with a dropdown menu.
- Vitals/I&O** section with a dropdown menu.
- Acknowledge Orders (2)** section:
  - New Orders** and **Acknowledge All** buttons.
  - Order 1: **Initiate Patient Triage, Assessment and Non Prescriber Initiated Protocol Orders** (checked).
  - Order 2: **XPERT Flu test** (checked), with an **Order Comments** link.
- Specimens/Tasks (1)** section:
  - XPERT Flu test** (checked).
  - Order time: **09/10**.
  - Order time: **09:00**.
  - Order Comments** link.

- If the results return with a positive value, the physician will reopen the chart and address the BPA for the Positive Xpert Flu results. This BPA will appear when the provider chooses to discharge or admit the patient.

The screenshots show BestPractice Advisories (BPAs) for discharge and admit actions. Both screens show 3 patients with the last name TST.

**Discharge Screen:**

- Navigation: **BestPractice**, **Departure Condition**, **Clinical Impression**, **DC Notes to Patient**, **Incidental Findings**, **Follow-Up**, **Orders**, **Discharge Inst**, **Comm Mgt**, **Work/School Excuse**, **Preview/Print AVS**, **Disposition**, **Order Sets**.
- BestPractice Advisories** section:
  - Decision: **DECISION: Positive Xpert Flu result - Does this patient meet one or more of the CDC Criteria for influenza antiviral treatment?** (Link to CDC Criteria).
  - Acknowledge reason:  **Yes** **No**
  - Decision: **DECISION: Positive Xpert Flu result - Order influenza antiviral medications?**
    - Acknowledge reason:  **Does not meet CDC recommendations** **>48 hrs from time of symptom onset** **Do not think pt has influenza** **Allergy/contraindication to tx** **Pt unable to tolerate PO** **Other (specify in comments)**
    - Place order: TAMIFLU 75 MG CAPSULE**
- Footer: **Refresh** | Last refreshed on 9/30/2014 at 11:13 AM | **Accept**

**Admit Screen:**

- Navigation: **Certification Status**, **BestPractice**, **Clinical Impression**, **Insurance Info**, **Orders**, **Order Sets**, **Disposition**.
- BestPractice Advisories** section:
  - Decision: **DECISION: Positive Xpert Flu result - Does this patient meet one or more of the CDC Criteria for influenza antiviral treatment?** (Link to CDC Criteria).
  - Acknowledge reason:  **Yes** **No**
  - Decision: **DECISION: Positive Xpert Flu result - Order influenza antiviral medications?**
    - Acknowledge reason:  **Does not meet CDC recommendations** **>48 hrs from time of symptom onset** **Do not think pt has influenza** **Allergy/contraindication to tx** **Pt unable to tolerate PO** **Other (specify in comments)**
    - Place order: TAMIFLU 75 MG CAPSULE**
    - (Last done by Gabor David Kelen, MD on 9/30/2014 at 11:29 AM)

7. The provider will be asked if the patient meets the criteria for treatment. The provider also decides to order the Tamiflu capsule; if so, the order will be signed in Manage Orders.
- NOTE: If the physician decides to not order the medication, they must address the ACKNOWLEDGE REASONS in order to continue.

