Cincinnati CCHMC Respiratory Virus Testing Algorithm Children's Inpatient Start Setting? NO Respiratory Respiratory YES Do Not Test* -NO illness illness symptoms? symptoms?† End Perform targeted testing if clinically indicated or results High risk for respiratory virus would change Consider targeted testing if complications**1 management clinically indicated.#If result negative, consider testing with Syndromic Respiratory PCR Panel[^] if results would change management NO Vould result argeted results negative and change NO-Do Not Test* End additional results would management change management? YÉS YÉS

End

†Respiratory illness symptoms may include: nasal congestion, cough, loss of taste or smell, fever, chills, muscle aches, fatigue, etc.

- * Testing might be necessary for certain situations (e.g. surveillance screening or outbreak investigations).
- **High risk resp virus complication examples include:
 - Immunocompromised
 - Respiratory symptoms and requiring ICU level of care

Perform targeted

testing

(see list below)

- Patient age (<6mo or premature infants)
- Children <2 years old with chronic lung or heart disease
- Children with neuromuscular disorders
- H5N1 risk factors: Consumption of raw milk, close contact with dairy cows, or close contact
 with wild birds. Children with any respiratory illness and/or conjunctivitis should be
 screened for these H5N1 risk factors. Syndromic Respiratory PCR Panel should be utilized in
 working up for H5N1
- ‡ Clinical indications for testing can include:
 - High index of suspicion for a treatable infection like influenza, pertussis, or COVID-19 after a known exposure or in patients eligible for treatment
 - Identification of an organism will complete a work-up such as with fever of unknown origin or Kawasaki disease rule-out
 - Identification of an organism may lead to not starting antibiotics for a presumed bacterial infection

^Syndromic Respiratory PCR Panel ordered as outpatient, is not usually covered by patient's insurance

Pathogen Trends & Insights: What's Bugging Us Site CDC Respiratory Data Website

Consider testing with Syndromic

Respiratory PCR Panel^a

CCHMC Tests

COVID/Flu A&B/RSV panel - \$\$

COVID/Flu A&B panel, Rapid - \$\$

COVID/Flu A&B panel - \$

COVID molecular - \$

Flu A&B molecular - \$

RSV molecular, Rapid - \$

RSV molecular - \$

Pertussis molecular - \$\$

Mycoplasma molecular - \$\$\$

Syndromic Respiratory PCR Panel - \$\$\$\$