COMPLIMENTARY WEBINAR

Influenza: Expediting the Work-Up and Appropriate Treatment in Primary Care

Thursday, February 9, 2023 1:00 PM – 2:00 PM ET



Maurice "Al" Allgeier, III, MD, FAAP

Pediatrician/Partner/President All Star Pediatrics ONE Pediatrics, PLLC Louisville, Kentucky



Shelle Allen

Board Member and Parent Advocate Families Fighting Flu



Madison Allen

Flu Survivor

The speaker is presenting on behalf of Abbott.

The information presented is consistent with applicable FDA guidelines.

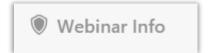
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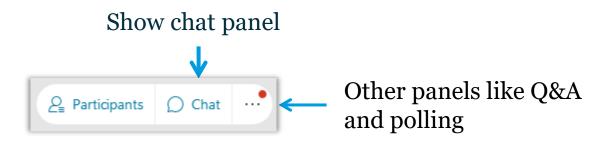
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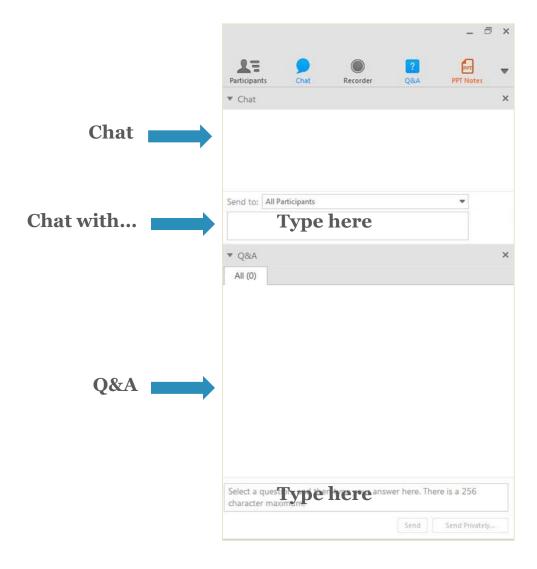
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- Evaluation form will appear automatically
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- For groups: Those logged in will receive Email from messenger@webex.com with link to evaluation. Forward email to colleagues who attended with you!!!
- Double-check email address

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Recording

Within a few days following today's event, visit

https://www.whitehatcom.com/abbott

Influenza: Expediting the Work-Up and appropriate Treatment in Primary Care

Live Event: Thursday, February 9, 2023 | 1:00 - 2:00 PM Eastern Time P.A.C.E.® credit available until February 9, 2024 Florida Laboratory CE Credit available

Join this session for a clinical perspective on primary care best practices and approaches to streamline the evaluation and care of patients with influenza. Hear strategies for the use of rapid testing to improve workflow efficiencies and the appropriate use of antibiotics and antivirals. Gain perspective based on a personal story describing the impact of influenza.

The webinar will:

- Review the status of the current respiratory season and the latest health and vaccination data
- Explore the impact of influenza on primary care, the community and families
- Review rapid influenza testing guidelines and utility in the primary care
- Examine the application of rapid testing and other resources to mitigate influenza transmission and improve patient outcomes¹

¹Uyeki TM, et al. Clinical Practice Guidelines by the Infectious Diseases Society of America: 2018 Update on Diagnosis, Treatment, Chemoprophylaxis, and Institutional Outbreak Management of Seasonal Influenza. Clin Infect Dis. 2019 Mar 5;68(6):e1-e47.



Presenters:



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A Division of ONE Pediatrics, PLLC



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Madison "Madi" Allen

Flu Survivor

Influenza: Expediting the Work-Up and Appropriate Treatment in Primary Care



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The Importance of Testing for Influenza Insights from a Mother and Her Daughter

Families Fighting Flu

Shelle Allen
Board of Director & Parent Advocate

Madison 'Madi' Allen Flu Survivor

February 9, 2023



Madi's Story





Madi's Experience Sends an Important Message



Her experience is one that any family could face.

It is important to elevate awareness about an infection we didn't know was so serious ...

... and prevent others from having a similar experience.



We hope sharing the life-threatening consequences of influenza helps leave lasting impression on the importance to vaccinate, test, and rapidly treat!

It's Not "JUST" the Flu - It's a Serious Disease

Avoid hospitalization costs

Average 17 million missed days of work per year

Average \$1800 lost wages

Average 38 million missed days of school per year





A recommendation for flu vaccination from a healthcare professional is critically important for improving flu outcomes.

Madi Today

- Higher risk of respiratory illness
- Must take symptoms seriously
- Critical to seek proper medical care
- Test for appropriate treatment





Vaccinate, Test, and Treat

- Influenza doesn't discriminate;
 best prevention is to vaccinate
- Test if showing influenza-like symptoms
- Rapidly prescribe and administer appropriate antiviral treatment to reduce symptom duration and lower risk of complications





FFF Educational Resources For Healthcare Professionals

Childhood Immunization Schedule

Advocacy Toolkit

Educational Materials

Spanish

Social Media



3 Steps to Fight Flu...

1 VACCINATE



















Available at familiesfightingflu.org

Contact Information

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Disclosures

Receiving honorarium from Abbott

 Content based on our organization's experience with test technology





About ONE Pediatrics



Formed in 2014

- 6 independent pediatric practices merged to deliver better quality care
- 7 divisions
- 10 locations in the Louisville Metropolitan Area
- **40+** providers and growing





Respiratory Infections and Influenza



What We Learned in Medical School...

Most diagnoses can be made by a good history and physical... but what about when they can't???





Overlapping Symptoms - History -

Varying degrees of symptoms from asymptomatic to severe, including:

- Fever or feeling feverish/having chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue (tiredness)
- Sore throat
- Runny or stuffy nose
- Muscle pain or body aches
- Headache
- Vomiting
- Diarrhea (more frequent in children with flu, but can occur in any age with COVID-19)
- Change in or loss of taste or smell, although this is more frequent with COVID-19

COVID-19?

Influenza?

Respiratory Syncytial Virus (RSV)?

Group A Strep Pharyngitis?





^{1.} CDC. Influenza, Similarities and Differences between Flu and COVID-19. https://www.cdc.gov/flu/symptoms/flu-vs-covid19.htm, updated Sept 28, 2022.

^{2.} CDC. Respiratory Syncytial Virus Infection (RSV), Symptoms and Care. https://www.cdc.gov/rsv/about/symptoms.html, updated Oct 24, 2022.

^{3.} CDC. Strep Throat: All You Need to Know. https://www.cdc.gov/groupastrep/diseases-public/strep-throat.html, updated

Overlapping Signs - Physical Exam -

Physical exam findings, including:

- Abnormal vital signs to include temperature, pulse, respiratory rate
- Toxic or ill-appearance
- o Rhinorrhea
- Conjunctival erythema
- Pharyngeal erythema
- Respiratory rales, rhonchi, wheeze
- Abdominal tenderness
- Muscle tenderness to palpation
- o Rash

COVID-19?

Influenza?

Respiratory Syncytial Virus (RSV)?

Group A Strep Pharyngitis?





What are the COVID-19 Criteria for Testing in Children?

"Laboratory testing is necessary to confirm the diagnosis of COVID-19 because no single symptom or combination of symptoms reliably differentiates SARS-CoV-2 from other community-acquired viruses and because coinfection is common"





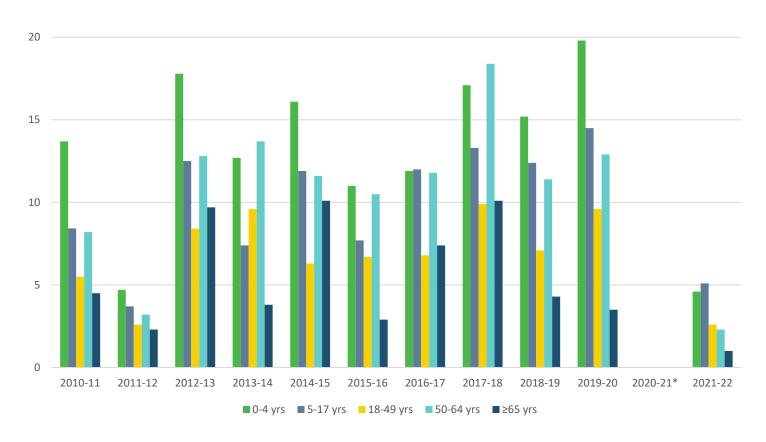
Who Gets Sick from Influenza

Anyone Can Get Flu...Even Healthy People

AVERAGE 8% (3% – 11%) OF U.S. POPULATION CONTRACT INFLUENZA EACH YEAR

Children (<18 years) are most likely to get sick from flu – 2x higher incidence of influenza than adults > 65 years

Children (<5 years) have the highest incidence of developing a symptomatic flu infection



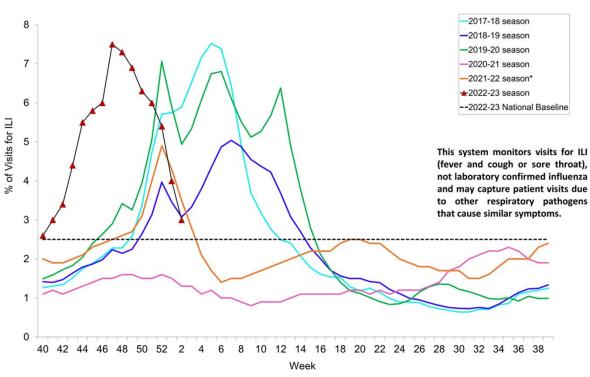
^{*} The burden estimate for the 2020-2021 season was not calculated due to the uncharacteristically low level of influenza activity that season.



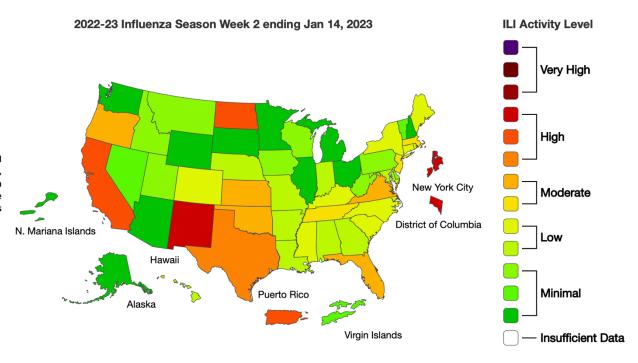


Influenza Activity

% Outpatient Visits for ILI Weekly Summary Current and Prior 5 Seasons, through week 2



Influenza Outpatient Respiratory Illness Activity

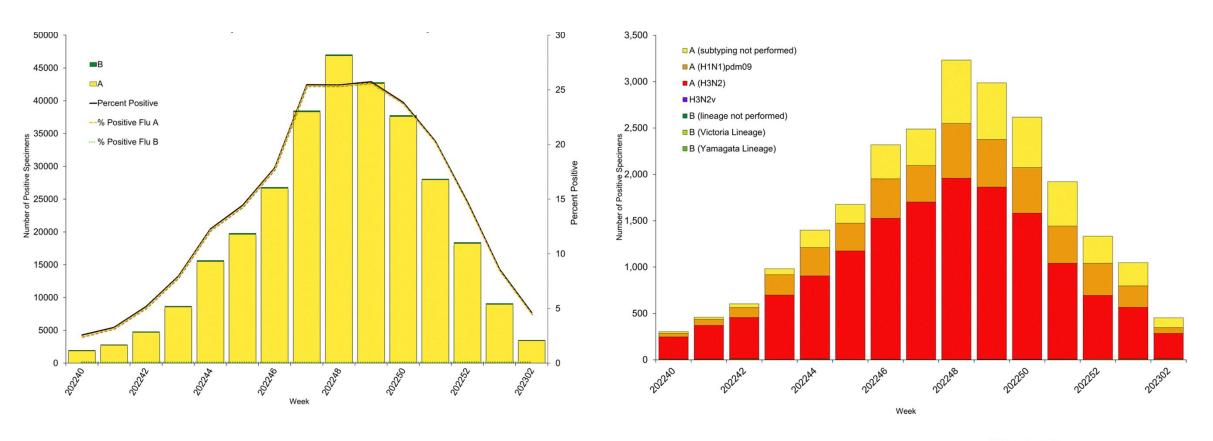






Influenza by Type and Subtype

Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories October 2, 2022 – January 14, 2023

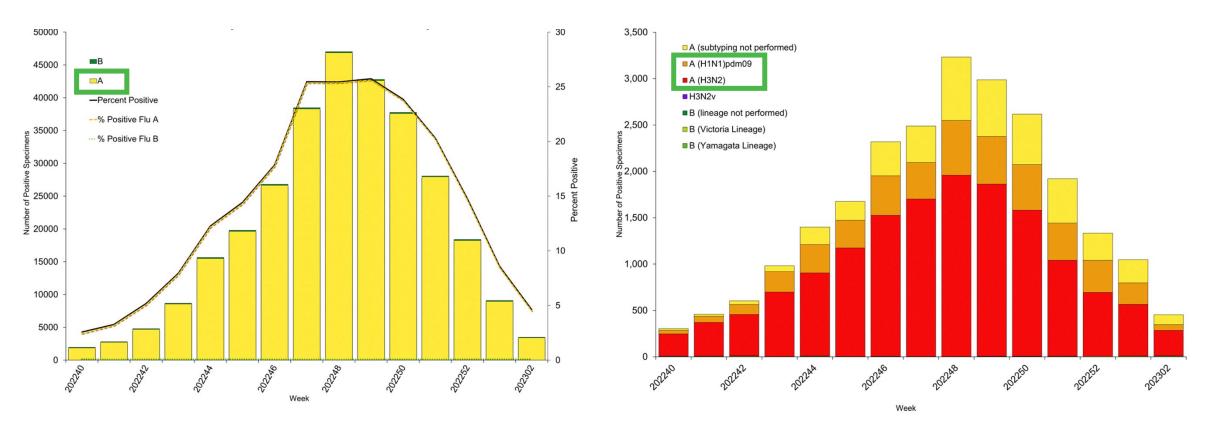






Influenza by Type and Subtype

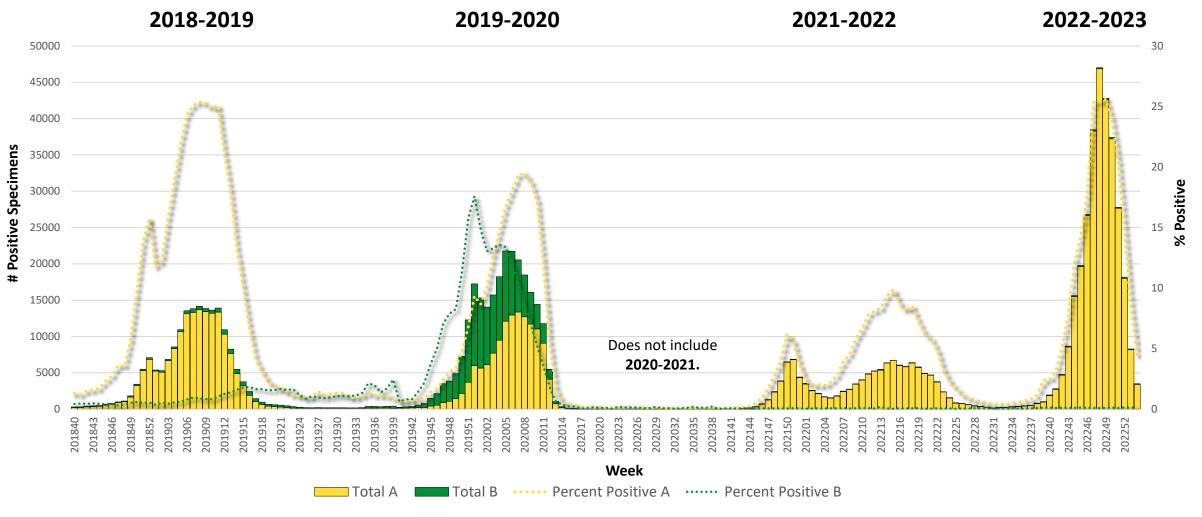
Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories October 2, 2022 – January 14, 2023







Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories



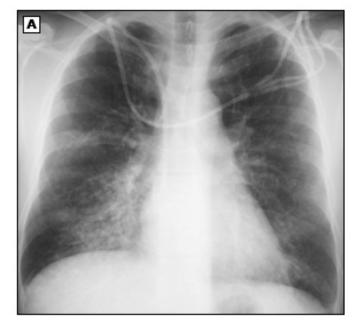
CDC. Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories. https://www.cdc.gov/flu/weekly/index.htm. excludes 2020-2021, updated Jan 20, 2023. https://www.cdc.gov/flu/weekly/weeklyarchives2019-2020/data/whoAllregt_cl39.html, <a href="https://www.cdc.gov/flu/weekly/weeklyarchives2021-2022/weekl

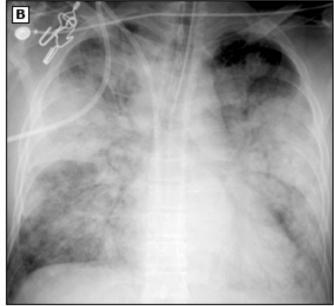




Complications

- Pneumonia is the most common flu complication
 - o Primary influenza pneumonia
 - Secondary bacterial pneumonia
- Otitis media in children
 - o 3-4 days after onset
- Myositis, rhabdomyolysis
- Pericarditis and myocarditis
- Neurological complications
- TSS most due to Flu B



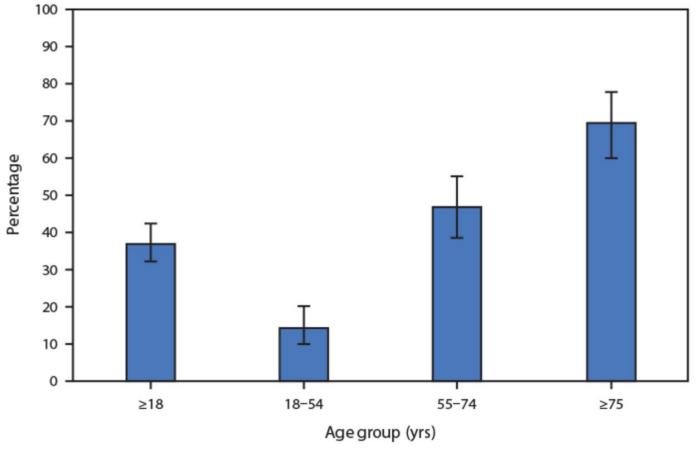






Most Likely to Be Hospitalized with an ED Visit

% Emergency Department Visits for Influenza/Pneumonia Resulting in Hospitalization 2017 - 2018, by Age Group







Increased Risk of Complications

Health, Age and Other Factors

Adults ≥ **65** Liver disorders

Children < **2*** Metabolic disorders

Asthma BMI ≥ 40

Neurologic/neurodevelopment conditions ≤ 18 years old on long-term aspirin- or

Blood disorders salicylate-containing medications

Chronic lung disease Immunocompromised

Endocrine disorders History of stroke

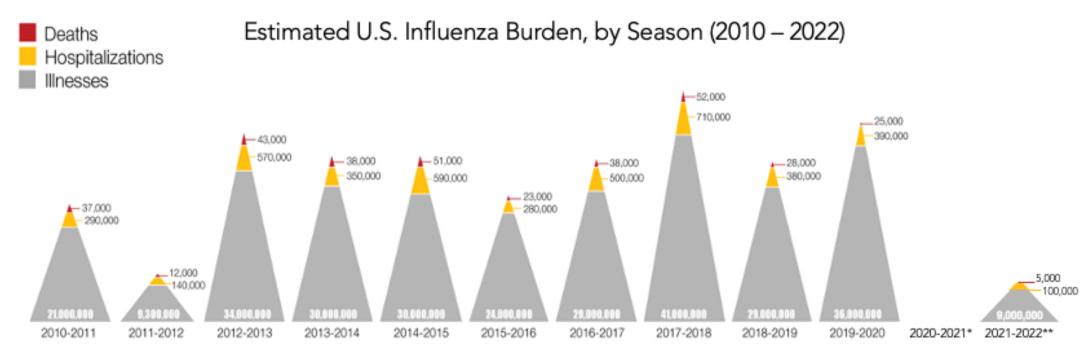
Heart disease Pregnant, and up to 2 weeks after pregnancy

Kidney disease People living in nursing homes/long-term care

^{*}Although all children < 5 years old are considered at higher risk of serious flu complications, highest risk is < 2 years old. The highest hospitalization and death rates among infants < 6 months old.

Impact of Flu Can Vary Widely

Factors include circulating viruses, timing of the season, vaccine effectiveness, and vaccinations.



^{*} Estimates are not available for the 2020-2021 flu season due to minimal influenza activity.

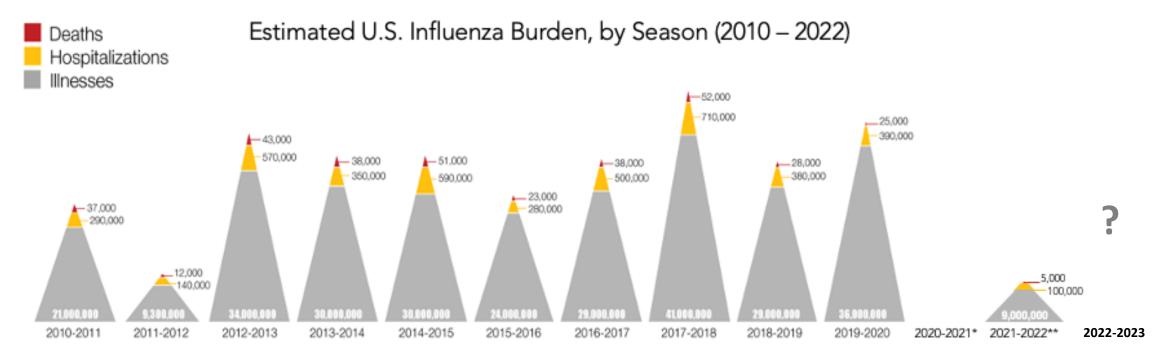




^{**}Preliminary estimate

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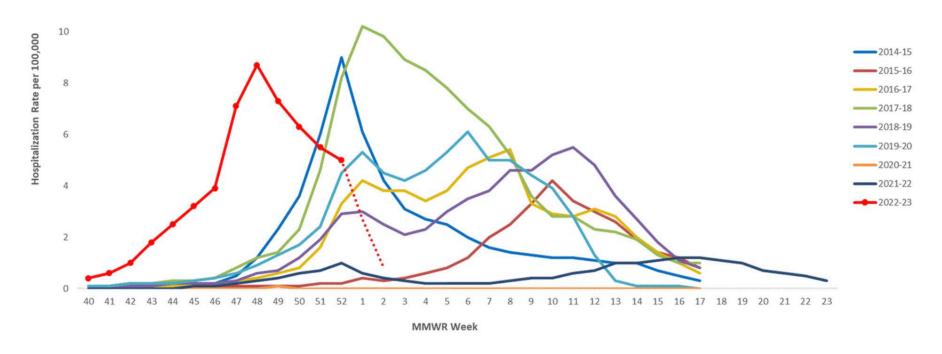




^{**}Preliminary estimate

Influenza Hospitalizations

Weekly Rate of Lab-Confirmed Influenza Hospitalizations All Age Groups



^{**}In this figure, weekly rates for all seasons prior to the 2022-23 season reflect end-of-season rates. For the 2022-23 season, rates for recent hospital admissions are subject to reporting delays and are shown as a dashed line for the current season. As hospitalization data are received each week, prior case counts and rates are updated accordingly.





Influenza Testing



Recommended Diagnostic Workup When Influenza is Circulating

Does the patient have signs and symptoms suggestive of influenza, including atypical clinical presentation, or findings suggestive of complications associated with influenza?2,3 Yes Is the patient being admitted to the hospital? Influenza testing probably not indicated; consider other etiologies Will influenza testing results influence clinical management?4 Yes No Test for influenza; start empiric antiviral Yes treatment for hospitalized patients while results are pending (molecular assays should be used for influenza testing of Influenza clinically diagnosed; start empiric antiviral treatment if the patient is hospitalized patients.)4,5,6,7,8 Proper in a high-risk group for influenza complications^{7,8}, or has progressive disease, interpretation of testing results is advise close follow-up if worsening important.





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Recommended Diagnostic Tests, COVID-19 / Flu Co-Circulating

Molecular/Nucleic acid amplification tests (NAAT) vs. rapid antigen

Hospitalized

- COVID-19 and Influenza NAATs are recommended for all hospitalized patients with respiratory illness symptoms¹
- Rapid antigen tests for COVID-19 and influenza are NOT recommended due to low sensitivity¹
- If NAAT *unavailable* and rapid antigen test is used for COVID-19 or influenza, **confirm** negative rapid antigen tests with a NAAT¹

Outpatients

- NAATs (lab-based or rapid) are recommended over antigen tests for Influenza¹ (and for COVID-19¹ and in adults for RSV²)
- Rapid NAATs are recommended over rapid antigen tests for Influenza¹

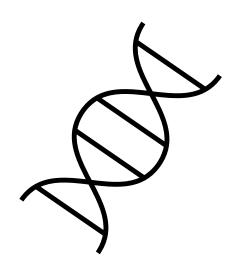




^{1.} CDC. Influenza, Testing Guidance for Clinicians When SARS-CoV-2 and Influenza Viruses are Co-circulating. https://www.cdc.gov/flu/professionals/diagnosis/testing-guidance-for-clinicians.htm, updated Feb 9, 2022.

^{2.} CDC. RSV for Healthcare Providers. citation. https://www.cdc.gov/rsv/clinical/index.html, updated Oct 28, 2022.

What is a NAAT?



Nucleic Acid Amplification Test

(DNA or RNA)

(requires enzymes)

- Amplification is the foundation of molecular technology, which helps improve detection (test sensitivity).
- All NAATs are molecular tests, they amplify genetic (DNA/RNA) material





Why Molecular? The Power of Sample Amplification

POSITIVE PATIENT

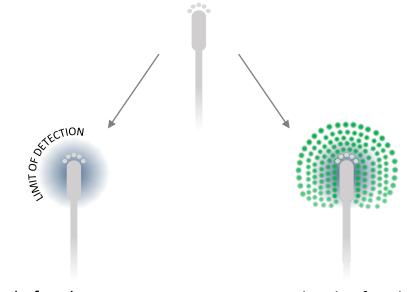
Sample Containing Antigen/RNA

ANTIGEN TESTS

"Rapids" "RADTs" "Lateral Flow"

NO AMPLIFICATION

Detects the presence of available pathogens (virus or bacteria)



MOLECULAR TESTS

"PCR" "NAAT"

AMPLIFICATION

Amplifies the sample billions of times for easier pathogen detection

Lower level of pathogen are less likely to be detected

Lower levels of pathogen are more likely to be detected

SELECT TEST BASED ON NEED FOR SPEED OF RESULT, ACCURACY AND IMPACT OF TEST RESULTS





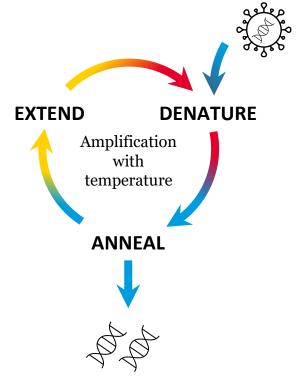
Types of Nucleic Acid Amplification Tests (NAATs)

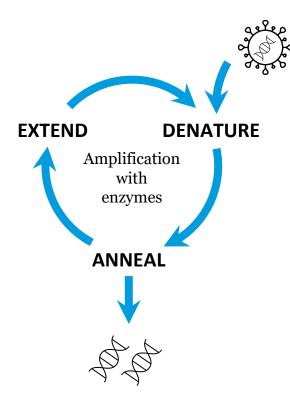
THERMOCYCLING

ISOTHERMAL

PCR

Requires a series of **temperature changes** for pathogen amplification, which increases time to result.





NEAR, LAMP, HDA, TMA, etc.

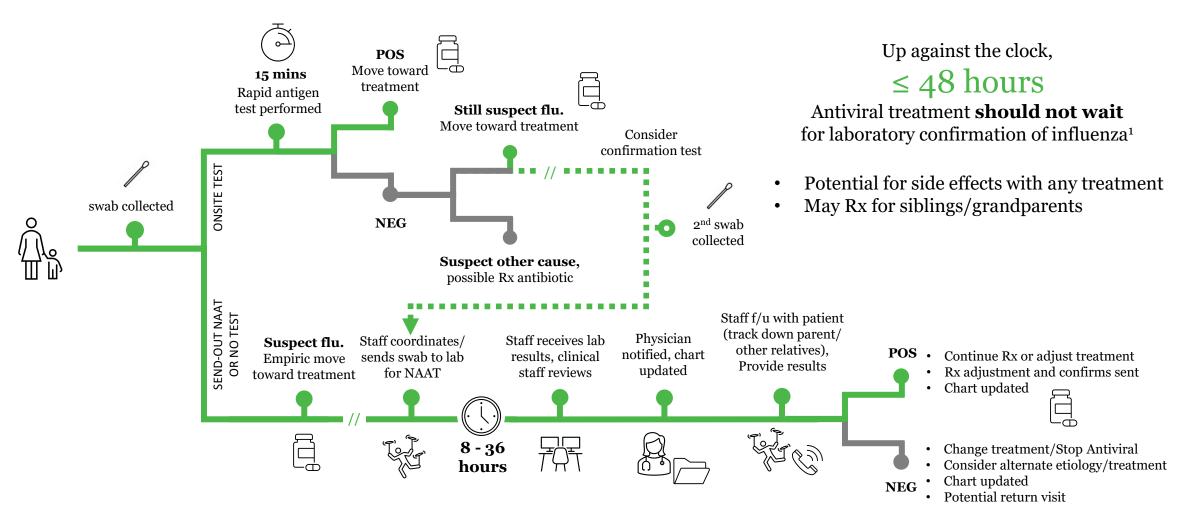
Use enzymes and consistent temperature; may reduce amplification time and speed test result.

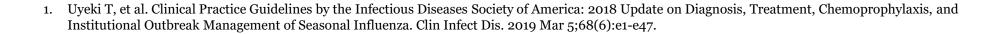
- IT'S ALL MOLECULAR





Workflow – Rapid Antigen Testing (Onsite with NAAT Send-Out)

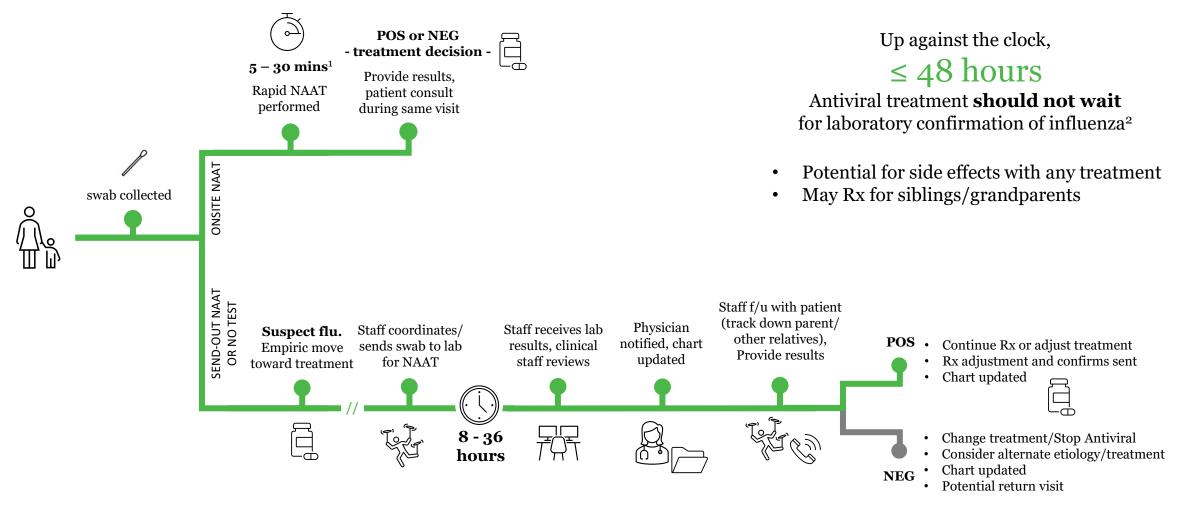








Workflow – Highly Sensitive NAAT (Onsite or Send-Out)



- 1. Time estimates per 2 CLIA waived rapid molecular tests (ID NOW Influenza A & B 2 data on file (Abbott) and Xpert® Xpress Flu US-IVD Datasheet 0715.
- 2. Uyeki T, et al. Clinical Practice Guidelines by the Infectious Diseases Society of America: 2018 Update on Diagnosis, Treatment, Chemoprophylaxis, and Institutional Outbreak Management of Seasonal Influenza. Clin Infect Dis. 2019 Mar 5;68(6):e1-e47.





Workflow – Highly Sensitive Rapid NAAT (Onsite)







CLIA-waived POC Molecular – Influenza A & B

	METHOD	TESTS	POSITIVE RESULTS (MIN)	NEGATIVE RESULTS (MIN)	SENSITIVITY/ PPA	SPECIFICITY/ NPA	REAGENT STORAGE
- 2	Abbott ID NOW™¹	Influenza A/B	≥ 5	13	96.3% A, 100% B*	97.4% A, 97.1% B*	Room temperature
	Roche cobas® LIAT® ²	Influenza A/B/RSV	~20	~20	98.3% A, 95.2% B†	96.0% A, 99.4% B†	Refrigerated
	Cepheid [®] Xpert [®] Xpress ³	Influenza A/B	≥ 20	~30	98.9% A, 97.6% B†	98.4% A, 99.3% B†	Room temperature
Angle Angle	ThermoFisher Scientific Accula™ ⁴ Dock	Influenza A/B	~30	~30	97% A, 94% B*	94% A, 99 % B*	Room temperature

^{*} Sensitivity/Specificity





[†] Positive or Negative Percent Agreement

^{1.} ID NOW™ Influenza A & B 2 Test Package Insert, IN427000, v.8.

^{2.} cobas® Influenza A/B & RSV Package Insert, 09422439001-01EN Doc Rev. 1.0. Other test panels available.

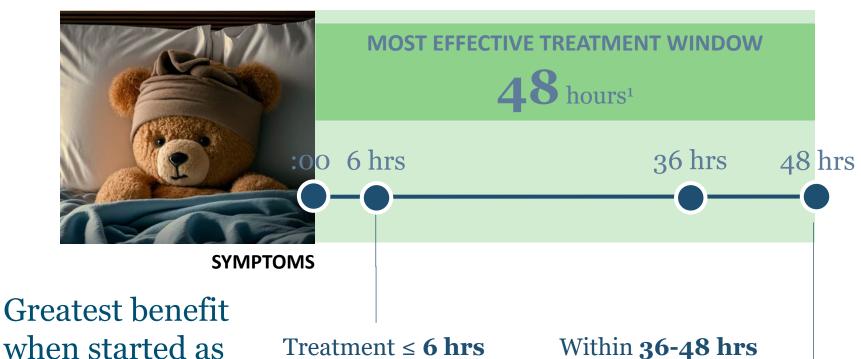
^{3.} Xpert® Xpress Flu US-IVD Datasheet; waived, nasal swab test performance. 0715. Other test panels available.

^{4.} Accula™ Flu A/Flu B Test Instructions for Use, LBL-60009 Rev. C.

Results in Time for Clinical Decision Making



Treatment for Influenza



Treatment window can be very small! Patients do not always present on day 1 of symptoms.

when started as close to onset as possible

Treatment \leq 6 hrs within 36-48 hrs reduces symptoms by ~4 days.¹

Within 36-48 hrs reduces symptoms by 1-2 days.²

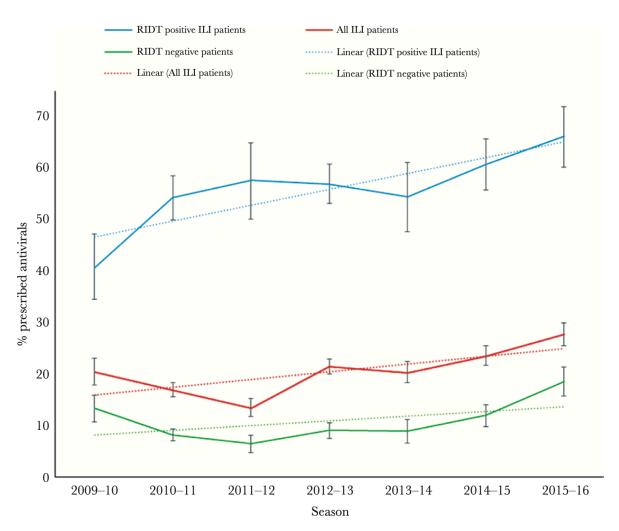
Symptom improvement can help reduce downtime and expedite return to school, work.

- 1. Uyeki TM, et al. Clinical Practice Guidelines by the Infectious Diseases Society of America: 2018 Update on Diagnosis, Treatment, Chemoprophylaxis, and Institutional Outbreak Management of Seasonal Influenza. Clin Infect Dis. 2019 Mar 5;68(6):e1-e47.
- 2. Hayden FG, et al. Efficacy and safety of the neuraminidase inhibitor zanamivir in the treatment of influenza virus infections. GG167 Influenza Study Group. N Engl J Med 1997; 337:874–80.
- 3. Inoue M, et al. Emergence of oseltamivir-resistant pandemic (H1N1) 2009 virus within 48 hours. Emerg Infect Dis. 2010;16(10):1633-1636.





Antiviral Usage Can Likely Improve



Antivirals Rx increasing in patients with Influenza.

Overall, antivirals were prescribed infrequently, even in high-risk age groups.

Primary care providers were more likely to prescribe antivirals to patients with a positive RIDT





Increased Test Accuracy Improves Treatment Decisions on Antiviral Use

Antivirals prescribed more often in patients testing **positive by NAAT** (82.4%) than by either positive rapid antigen or reflex NAAT (69.9%)

"Our results suggest that the **higher sensitivity and negative predictive value provide confidence in the test results provided during the patient encounter**, thus positively impacting **antimicrobial stewardship**."





Treatment – Antivirals

Definitely treat

- Hospitalized patients
- Outpatients...
 - with severe or progressive illness
 - at high risk of complications

Consider treatment

- o Outpatients...
 - o with illness onset ≤48 hours, sooner the better
 - symptomatic household contacts of persons at high risk for influenza complications, particularly those who are severely immunocompromised
- Symptomatic health care providers who routinely care for patients at high risk for influenza complications, particularly those who are severely immunocompromised



Antiviral Medications Recommended for Treatment and Chemoprophylaxis of Influenza

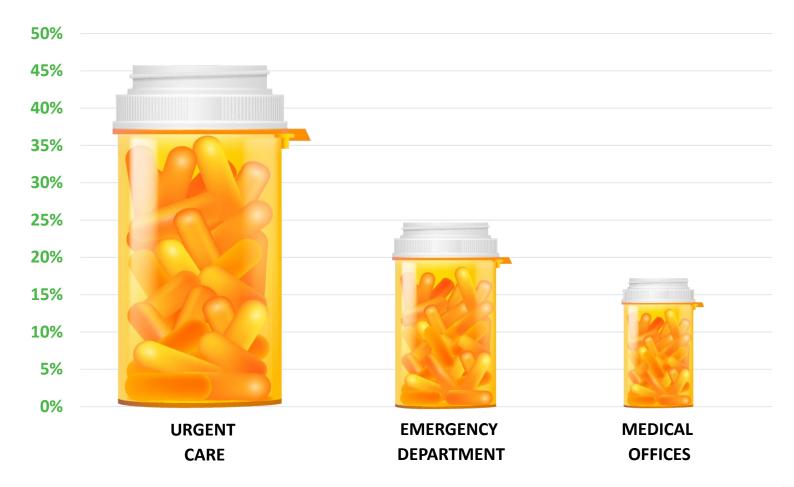
Antiviral Agent	Activity Against	Use	Recommended For	Not Recommended for Use in	Adverse Events	
Oral Oseltamivir	Influenza A and B	Treatment	Any age ¹	N/A	Adverse events: nausea, vomiting, headache. Post marketing reports of serious skin reactions and sporadic, transient neuropsychiatric events ²	
		Chemo- prophylaxis	3 months and older ¹	N/A		
Inhaled Zanamivir	Influenza A and B	Treatment	7 yrs and older ³	people with underlying respiratory disease (e.g., asthma, COPD) ³	Adverse events: risk of bronchospasm, especially in the setting of underlying airways disease; sinusitis, and dizziness. Post marketing reports of serious skin	
		Chemo- prophylaxis	5 yrs and older ³	people with underlying respiratory disease (e.g., asthma, COPD) ³	reactions and sporadic, transient neuropsychiatric events ²	
Intravenous Peramivir	Influenza A and B ⁴	Treatment	6 months and older ⁴	N/A	Adverse events: diarrhea. Post marketing reports of serious skin reactions and sporadic, transient neuropsychiatric events ²	
		Chemo- prophylaxis ⁵	Not recommended	N/A		
Oral Baloxavir	Influenza A and B ⁶	Treatment	5 yrs and older ⁶	N/A	Adverse events: none more common than placebo in clinical trials	
		Chemo- prophylaxis ⁶	Approved for post-exposure prophylaxis in persons 5 yrs and older ⁶			

CDC. Influenza Antiviral Medications: Summary for Physicians. https://www.cdc.gov/flu/professionals/antivirals/summary-clinicians.htm, updated Sep 9, 2022.



Areas Most Prone to Inappropriate Antibiotic Use

AVG INAPPROPRIATE ANTIBIOTIC USE BY CARE SETTING





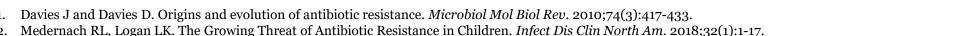


Antibiotics and Emergence of Resistance

- Penicillin discovered in 1928, followed by Fluoroquinolones (FQs), sulfonamides, and trimethoprim¹
- Sulfonamide resistance, reported late 1930s¹
- Antibiotic-resistant infections are increasing in children nationally and globally²
- Treatment of infectious diseases depends on antibiotics¹

"Antimicrobial resistance is a significant public health threat and a global crisis. Infections with antibiotic-resistant organisms are associated with significant morbidity and mortality." ²

"Resistance mechanisms are pandemic and create an enormous clinical and financial burden on health care systems worldwide... Decisive actions that require significant commitment and enforcement are never popular, even if lives can be saved." ¹







One Pediatrics/All-Star Experience With Rapid Molecular

IMPACT OF POC NAAT RESULTS IN TIME FOR CLINICAL DECISIONS

PATIENTS



Duration of patient visits



Patient throughput



Antimicrobial use



Symptom relief and return to work/school



Satisfaction



Convenience

CLINICIANS



Objective vs. empiric diagnostic decisions



Antimicrobial prescribing



Clinician diagnosis and Rx time



Confidence in diagnosis



Clinician satisfaction

OPERATIONS



Patient throughput



Clinical workflow



Lab logistics/transport/processing



Lab send-outs/workflow



Tracking down test results



Call-backs/patient follow-up





Summary

- Rapid diagnosis of influenza is important in primary care for accurate, timely diagnosis with increased clinician confidence
- Rapid NAATs improve diagnostic accuracy over rapid antigen testing
- An accurate diagnosis in time for clinical decision making improves prescribing of antivirals and promotes antibiotic stewardship
- Treatment helps reduce risk of severe influenza and complications; helps reduce days of malaise and missed days of school and work
- Test results during the patient visit provides practice efficiencies for staffing, informs patient care and improves satisfaction





Thank you for listening





Questions



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- A certificate of attendance available for all attendees
- Evaluation form will appear automatically
- Must complete Eval to receive Certificate link via email
- For groups: Those logged in will receive Email from messenger@webex.com with link to evaluation. Forward email to colleagues who attended with you!!!
- Double-check email address

Joined Using a Mobile Device?

Evaluation won't appear automatically, but...

Watch for email with link to evaluation!



Recording

Within a few days following today's event, visit

https://www.whitehatcom.com/abbott

Influenza: Expediting the Work-Up and appropriate Treatment in Primary Care

Live Event: Thursday, February 9, 2023 | 1:00 - 2:00 PM Eastern Time P.A.C.E.® credit available until February 9, 2024 Florida Laboratory CE Credit available

Join this session for a clinical perspective on primary care best practices and approaches to streamline the evaluation and care of patients with influenza. Hear strategies for the use of rapid testing to improve workflow efficiencies and the appropriate use of antibiotics and antivirals. Gain perspective based on a personal story describing the impact of influenza.

The webinar will:

- Review the status of the current respiratory season and the latest health and vaccination data
- Explore the impact of influenza on primary care, the community and families
- Review rapid influenza testing guidelines and utility in the primary care
- Examine the application of rapid testing and other resources to mitigate influenza transmission and improve patient outcomes¹

¹Uyeki TM, et al. Clinical Practice Guidelines by the Infectious Diseases Society of America: 2018 Update on Diagnosis, Treatment, Chemoprophylaxis, and Institutional Outbreak Management of Seasonal Influenza. Clin Infect Dis. 2019 Mar 5;68(6):e1-e47.



Presenters:



Maurice Allgeier, III, MD, FAAP

Pediatrician/Partner/
President
All-Star Pediatrics
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Shelle Allen

Board Member and Parent Advocate Families Fighting Flu



Madison "Madi" Allen

Flu Survivor

For additional information, please contact your local Abbott Rapid Diagnostics representative

Influenza: Expediting the Work-Up and Appropriate Treatment in Primary Care

NOTE: If you have just viewed the archived recording of this webinar, you should be automatically redirected to the evaluation when you close the recording window. If you are not redirected, you will be able to access the evaluation for **12 months** after the live event at:

https://www.whitehatcom.com/Abbott Evals/Flu 020923/Treatment 020923 eval.html

