FIGHTING FLU IN THE ERA OF COVID-19

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FLU and COVID-19

• Flu and COVID-19 will be circulating viruses at the same time this season.

 In order to reduce the healthcare burden, flu vaccination efforts will need to be increased.

• ICU beds, ventilators, and PPE could be spread thin.

 Co-infections of Flu and COVID-19 have the potential to be particularly deadly.

2020-2021 FLU VACCINE COMPOSITION

EGG-BASED INFLUENZA VACCINES

- Influenza A/Guangdong-Maonan/SWL1536/2019 (H1N1)pdm09like virus;
- Influenza A/Hong Kong/2671/2019 (H3N2)-like virus;
- Influenza B/Washington/02/2019 (Victoria lineage)-like virus; and
- *Influenza B/Phuket/3073/2013 (Yamagata lineage)-like virus
 *(Quadrivalent vaccines only)

2020-2021 FLU VACCINE COMPOSITION

CELL-BASED INFLUENZA VACCINES

- Influenza A/Hawaii/70/2019 (H1N1)pdm09-like virus;
- Influenza A/Hong Kong/45/2019 (H3N2)-like virus;
- Influenza B/Washington/02/2019 (Victoria lineage)-like virus; and
- *Influenza B/Phuket/3073/2013 (Yamagata lineage)-like virus
 *(Quadrivalent vaccines only)

GROUPS THAT NEED SPECIAL ATTENTION

- Elderly
- Pregnant Women
- Children ≥6 months of age
- People of Any Age who have Chronic Conditions

TWO NEW VACCINES FOR 2020-2021

FLUZONE HIGH-DOSE QUADRIVALENT

- Approved for use in persons aged ≥65 years old
- Contains 4 times the antigen per vaccine than standard vaccine (60µg per virus versus 15µg in standard dose vaccine)
- *DOSAGE CHANGE from 0.5 mL to 0.7 mL*

TWO NEW VACCINES FOR 2020-2021

FLUAD QUADRIVALENT

- Approved for use in persons aged ≥65 years old
- Contains adjuvant MF59, an adjuvant that is added to influenza vaccines to help stimulate the human body's immune response through production of CD4 memory cells.

INFANT MORTALITY DUE TO INFLUENZA

- Children <6 months of age have the highest mortality rate (0.66 deaths per 100,000 children).
- Compared with children aged 13-17 years, infants aged <6months were more than 6 times as likely to have an influenza-associated death, and
- Children aged 6 to 23 months were >3 times as likely to have an influenza-associated death as children aged 13-17 years.

Source: Shang M, Blanton L, Brammer L, et al. Influenza-Associated Pediatric Deaths in the United States, 2010-2016. *Pediatrics*. 2018,141(4):e20172918

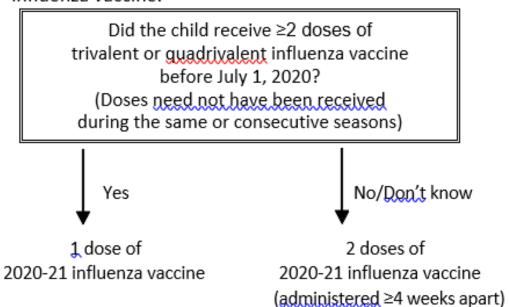
Epidemic Intelligence Service and Influenza Division, National Center for Immunization and Respiratory Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia



- Pregnant women
- Household contacts
 - Caregivers
- Immunocompromised Contacts

NUMBER OF DOSES NEEDED FOR CHILDREN AGED 6 MONTHS THROUGH 8 YEARS

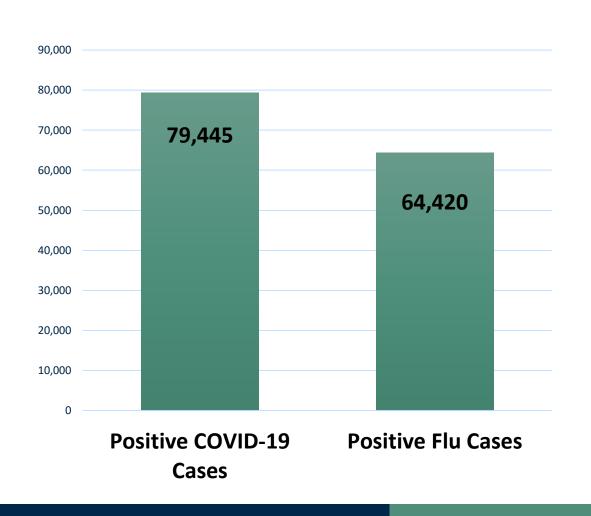
- Determine the number of doses needed based on child's age at time of first dose of 2020–21 influenza vaccine and number of doses of influenza vaccine received in previous seasons
 - For children aged 6 months through 8 years, determine the number of doses needed as shown below.
 - For children needing two doses, the second dose is recommended even if the child turns age 9 years between dose 1 and dose 2.
 - Persons aged ≥9 years need only one dose for 2020-21.
 - Children aged <6 months should not receive influenza vaccine.

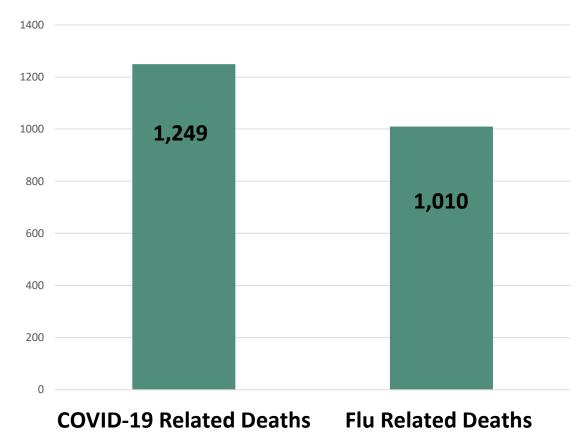


KENTUCKY FLU ACTIVITY BY SEASON

Flu Season is October thru May	TOTAL NUMBER OF CASES	TOTAL LONG- TERM CARE FACILITY OUTBREAKS	TOTAL NUMBER OF FLU-RELATED PEDIATRIC DEATHS	TOTAL NUMBER OF FLU-RELATED ADULT DEATHS	TOTAL NUMBER OF ALL FLU- RELATED DEATHS
2013-2014	1,700	12	1	57	58
2014-2015	1,046	92	3	143	146
2015-2016	3,087	12	3	36	39
2016-2017	3,025	82	0	76	76
2017-2018	10,489	124	5	328	333
2018-2019	17,665	75	2	194	196
2019-2020	27,408	44	6	156	162

POSITIVE COVID-19 DATA OVER A 7 MONTH PERIOD VS. POSITIVE FLU DATA OVER A 7 YEAR PERIOD





317-FUNDED ADULT VACCINE

The CDC has given special approval to offer and administer 317-funded adult influenza vaccine* to **ALL** adults – regardless of insurance status.

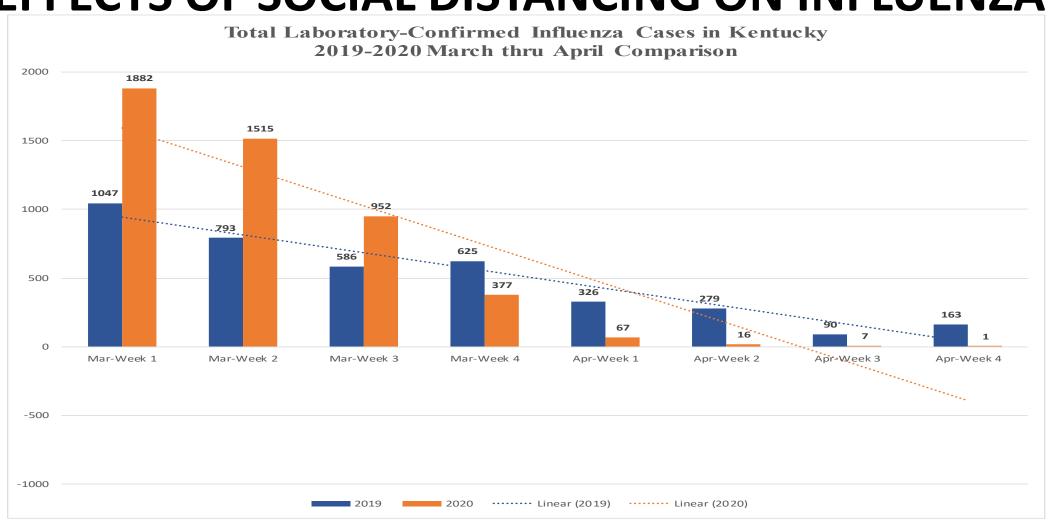
^{*} Normal CDC criteria for 317-funded vaccine is a person 19 years or older who is uninsured, underinsured, or indigent. The 317-funded vaccine can also be used for anyone in the event of a disease outbreak.

KENTUCKY DEPARTMENT FOR PUBLIC HEALTH "FLU CREWS"

- Ten regional teams, consisting of one RN and one LPN, will partner with Immunization Field Representative and the Local Health Departments in that area. They are called "Flu Crews."
- The Flu Crews are developed as part of the CDC Flu Expansion Project.
- The Flu Crews can schedule and staff flu clinics, enter vaccination data into the Kentucky Immunization Registry (KYIR) on behalf of the LHD/clinicians, and provide additional staffing for scheduled flu activities.
- Services provided at no charge.
- Contact: FluCrews@ky.gov



EFFECTS OF SOCIAL DISTANCING ON INFLUENZA



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NEW: Flu Reporting Mailbox is: FluReporting@ky.gov