

FIGHTING FLU IN THE ERA OF COVID-19

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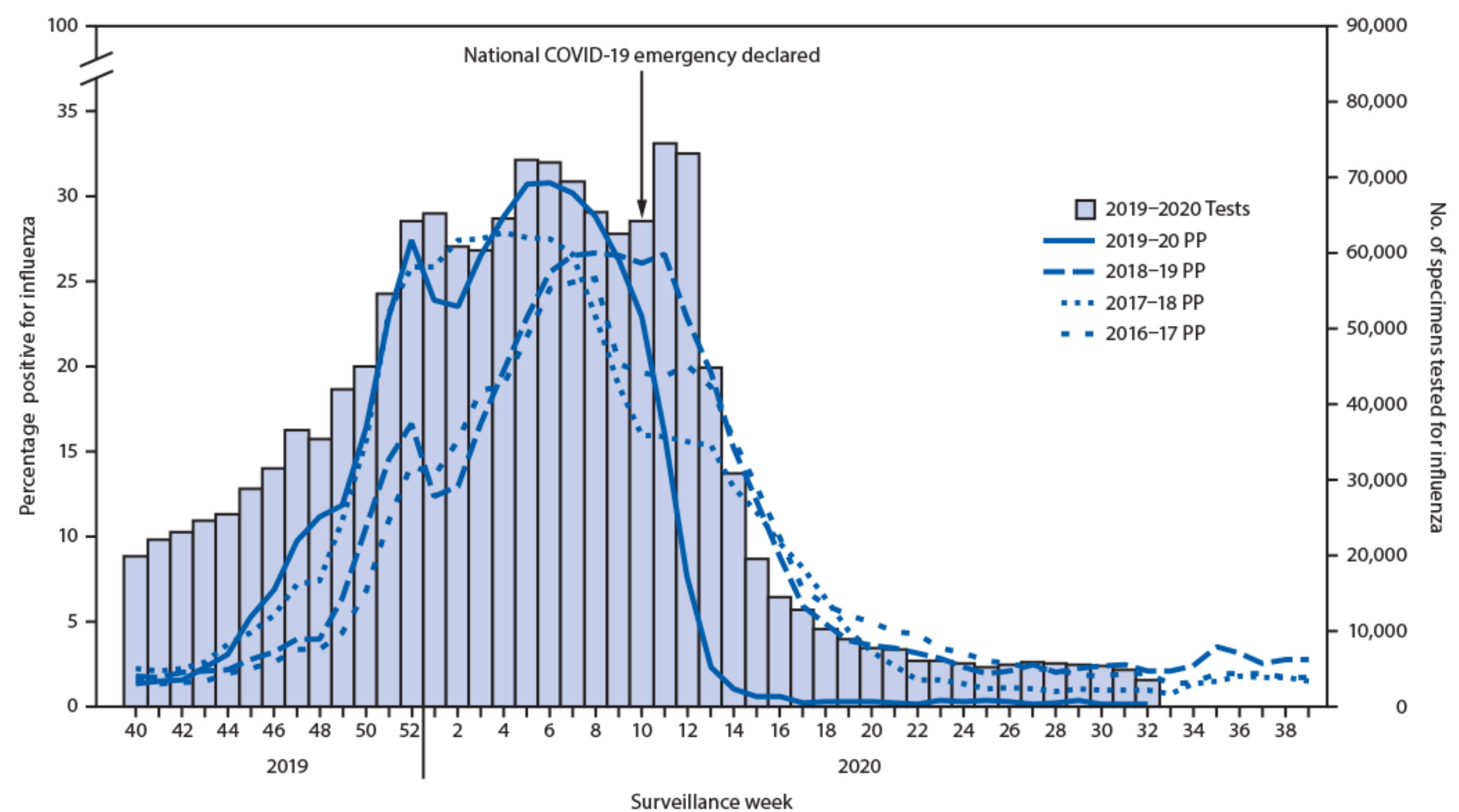
Kentucky Public Health
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DECREASED FLU ACTIVITY DURING COVID-19 PANDEMIC

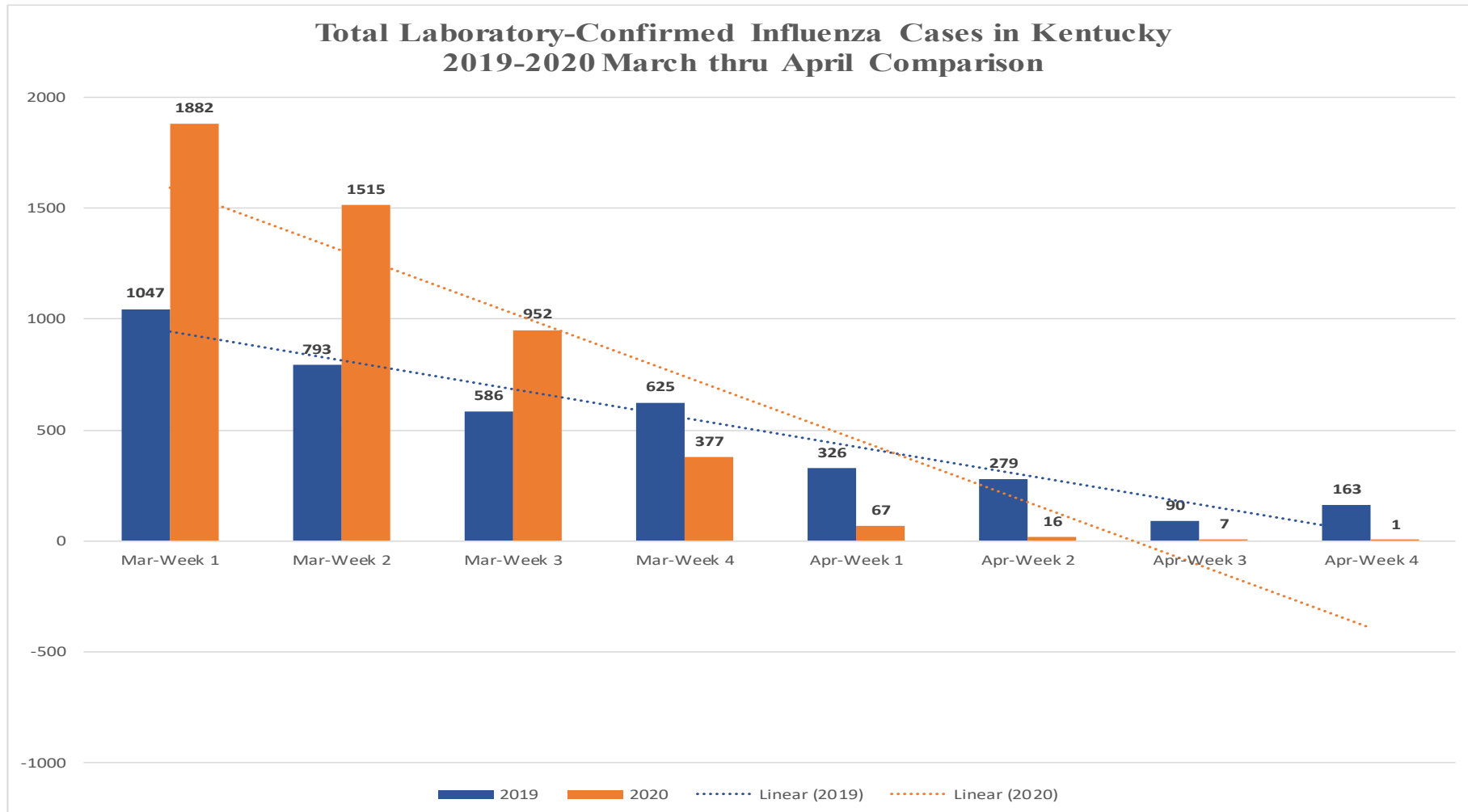
- Following widespread adoption of community mitigation measures to reduce transmission of SARS-CoV-2, the percentage of U.S. respiratory specimens submitted for flu testing that tested positive decreased from >20% to 2.3%.
- That percentage has remained at historically low inter-seasonal levels (0.2% versus 1-2%).
- Data from Southern Hemisphere countries also indicate little flu activity.

Olsen SJ, Azziz-Baumgartner E, Budd AP, et al. Decreased Influenza Activity During the COVID-19 Pandemic — United States, Australia, Chile, and South Africa, 2020. MMWR Morb Mortal Wkly Rep 2020;69:1305–1309.

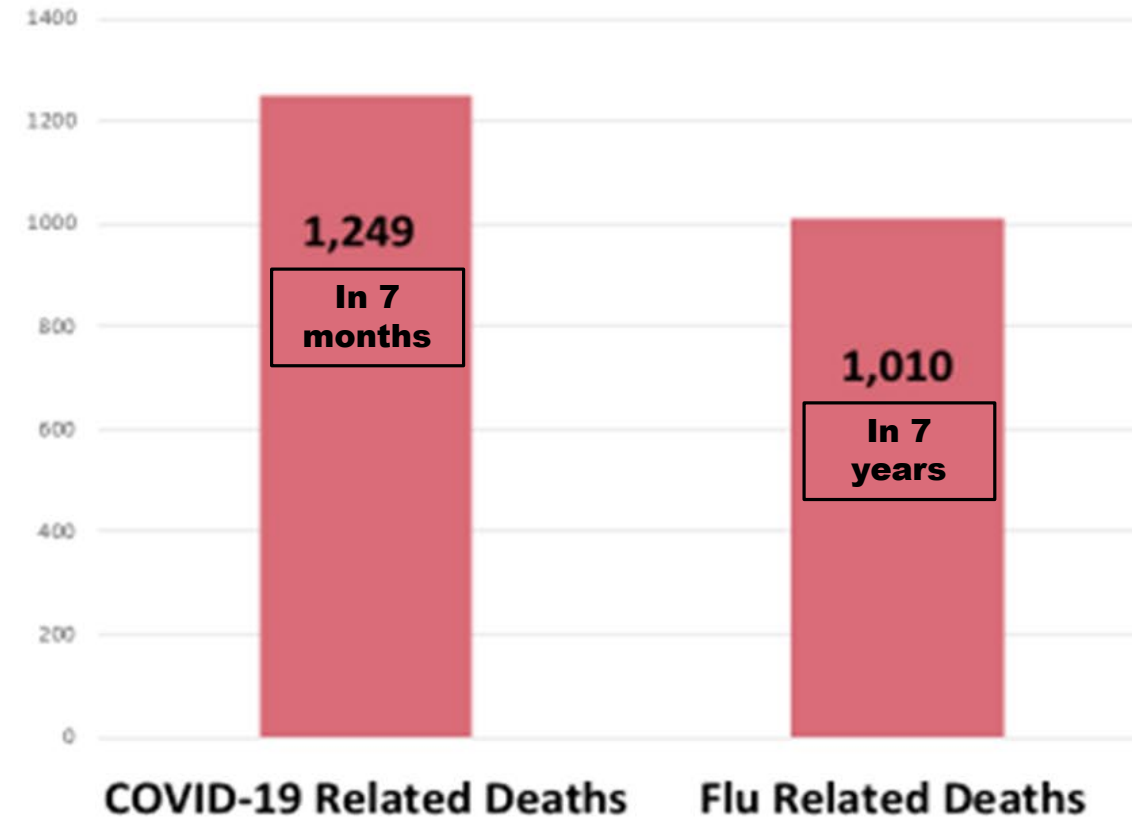
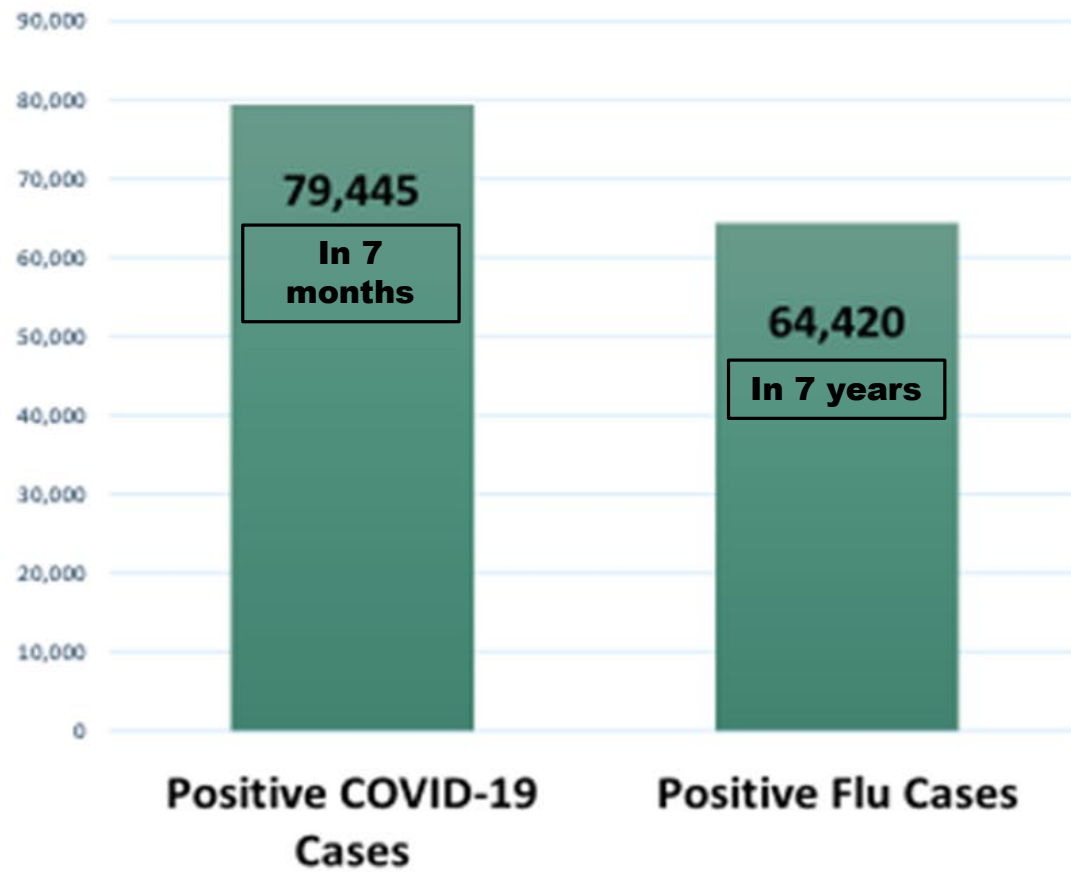
DOI: <http://dx.doi.org/10.15585/mmwr.mm6937a6external icon>



EFFECTS OF SOCIAL DISTANCING ON INFLUENZA IN KENTUCKY



7-MONTH COVID-19 DATA COMPARED WITH 7-YEAR FLU DATA



FLU SEASON OCT THROUGH MAY	TOTAL # OF CASES	TOTAL # OF LTCF OUTBREAKS	# OF PEDIATRIC DEATHS	# ADULT DEATHS	TOTAL # OF 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
2020-2021	180	2	0	0	0
2019-2020			2020-2021		
WEEK 49 CASES	511		WEEK 49 CASES	21	
YTD CASES	1,622		YTD CASES	180	
YTD DEATHS	4	4 adults/0 pediatric	YTD DEATHS	0	0 adults/0 pediatric
OUTBREAKS	1		OUTBREAKS	0	
YTD OUTBREAKS	2		YTD OUTBREAKS	2	
2020-2021 FLU SEASON IS SEPTEMBER 27, 2020 THRU MAY 22, 2021					

2020-2021 INFLUENZA VACCINE COMPOSITIONS

EGG-BASED

- Influenza A/Guangdong-Maonan/SWL1536/2019 (**H1N1**)pdm09-like 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)

CELL-BASED

- 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)

TWO NEW HIGH-DOSE 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 (60 μ g per virus versus 15 μ g in standard dose vaccine)
- ***DOSAGE CHANGE from 0.5 mL to 0.7 mL***

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.

VACCINE FOR THOSE 18 YEARS AND OLDER WITH VARIOUS ALLERGIES

FLUBLOK QUADRIVALENT

- High antigen vaccine (3 times regular vaccine) for those 18 years and older.
- Cell-based vaccine that is pure protein and does not contain infectious influenza virus
- Does not contain:
 - Antibiotics
 - Eggs
 - Thimerosal
 - Preservatives
 - Gelatin
 - Latex

REFERENCES

- *Decreased Influenza Activity During the COVID-19 Pandemic – United States, Australia, Chile, and South Africa, 2020.* MMWR Morb Mortal Wkly Rep. 2020; 69:1305-1309. DOI: <http://dx.doi.org/10.15585/mmwr.mm6937a6>
- *Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices – United States, 2020-21 Influenza Season.* MMWR Recomm Rep 2020;69(No. RR-8):1-24. DOI: <http://dx.doi.org/10.15585/mmwr.rr6908a1>
- Kentucky National Electronic Disease Surveillance System (NEDSS)
- Kentucky Department for Public Health, Vital Statistics, Death Records.

CONTACT INFORMATION

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