

Influenza Update 2020-2021: Avoiding the Twindemic
L.J. Tan Immunization Action Coalition
Webinar – 9/23 & 24

Slide Notes and References

Slide 11

1. CDC, AARP, American Medical Association. <https://www.cdc.gov/aging/pdf/promoting-preventive-services.pdf>. Accessed March 1, 2018.
2. CDC. <https://www.cdc.gov/flu/protect/whoshouldvax.htm>. Accessed March 1, 2018.
3. Dao CN, et al; Emerging Infections Program Network. *J Infect Dis*. 2010;202(6):881-888.
4. CDC. <https://www.cdc.gov/flu/weekly/weeklyarchives2016-2017/Week20.htm>. Accessed March 1, 2018.

Slide 12

1. Kwong JC, et al. *N Engl J Med* 2018; 378:345-353.
2. Ludwig A, et al. *BMC Cardiovasc Disord*. 2015 Sep 30; 15:109. doi: 10.1186/s12872-015-0095-0.
3. Warren-Gash C, et al. *Lancet Infect Dis*. 2009 Oct;9(10):601-10.
4. Santos-Gallego CG, et al. *JAHA* 2018; 7(22):e011175.

Slide 13

1. Samson SI, Lee W-N, Quisel T, et al. *Diabetes*. 2018;67(Supplement 1):1616.
2. Bouter KP, *Diabetes Res Clin Pract* 1991;12:61-8. Allard R, *Diabetes Care* 2010;33:1491-3.
3. <https://www.gov.uk/government/publications/influenza-the-green-book-chapter-19> (p4).

Slide 18-19

<https://www.cdc.gov/flu/fluview/coverage-1819estimates.htm>

Slide 20-21

- # https://www.cdc.gov/flu/fluview/hcp-coverage_1819estimates.htm
- † Nursing home, assisted living facility, other long-term care facility, home health agency or home health care.
- ‡ Settings other than hospitals, ambulatory care setting, or long-term care facilities; includes dentist office or dental clinic, pharmacy, EMS, and other settings where clinical care or related services was provided to patients.
- \$ Allied health professional, dentist, technician, or technologist.

- @ Administrative support staff or manager and nonclinical support staff (including food service workers, housekeeping staff, maintenance staff, janitor, and laundry workers).

Slide 22

- https://www.cdc.gov/flu/fluview/hcp-coverage_1819estimates.htm

Slide 24-25

- Internet Panel Survey, United States, March 27 – April 8, 2019

Slide 26

- Chronic cardiac disease, chronic pulmonary disease, diabetes mellitus, chronic renal disease, malignancies, and immunosuppressive disorders
- ** Preexisting diabetes mellitus, pulmonary disease that included asthma, heart disease, renal disease, and anemia
- Rasmussen, S.A., et al. 2012. American Journal of Obstetrics & Gynecology; 207(3): S3 - S8.

Slide 28 - 29

- Compiled from data presented at the July 30th, 2020 National Adult and Influenza Immunization Summit virtual meeting: Impact of COVID-19 on Adult Immunization Coverage Rates; and
- Update from CDC on Influenza Communications for 2020–21: <https://www.izsummitpartners.org/2020-naiis/covid-impact-on-adult-imm-and-flu-plans>.

Slide 31

1. <https://www.cdc.gov/flu/vaccines-work/2019-2020.html>.
2. Skowronski et al, Eurosurveillance 21 Feb 2020. www.eurosurveillance.org

Slide 32-34

- Multivariate logistic regression models adjusted for site, age categories, sex, race/Hispanic ethnicity, self-rated general health status, interval from onset to enrollment, and calendar time (biweekly intervals)

Slide 35

- Multivariate logistic regression models adjusted site, age group, sex, race/ethnicity, days from illness onset to specimen collection, calendar time of illness onset, home oxygen use, frailty score, and number of self-reported hospitalizations in the past year

Slide 36

- Multivariate logistic regression models adjusted for age group, study site, and calendar time (month of enrollment)

Slide 41

1. Barnes M, et al. Acute myocardial infarction and influenza: a meta-analysis of case-control studies. *Heart* 2015;101:1738–1747
2. Udell JA, et al. Association between influenza vaccination and cardiovascular outcomes in high-risk patients: a meta-analysis. *JAMA* 2013;310:1711–20

Slide 42

1. Renschmidt C, Wichmann O, Harder T. Vaccines for the prevention of seasonal influenza in patients with diabetes: systematic review and meta-analysis. *BMC Med* 2015;13:53.

Slide 43

1. Eszter P. Vamos, Utz J. Pape, Vasa Curcin, Matthew J. Harris, Jonathan Valabhji, Azeem Majeed and Christopher Millett. *CMAJ* October 04, 2016 188 (14) E342-E351.
2. Casanova L, Gobin N, Villania P, Verger P. 2016. *Primary Care Diabetes* 10(6):398–406.
3. M. Goeijenbier, T.T. van Sloten, L. Slobbe, C. Mathieu, P. van Genderen, Walter E.P. Beyers, Albert D.M.E. Osterhaus. 2017. *Vaccine* 35(38):5095-5101