## COVID-19: Presentation in Children and When To Open Schools - Module 3

Dr. Kevin Kavanagh from Health Watch USA<sup>sm</sup> discusses the various presentations of COVID-19 in children, and the risk of childhood transmission to and infections of adults. Current guidance on opening of schools along with international experience on school openings is also discussed. Aug. 5, 2020.

Download PowerPoint Slides: <a href="http://www.healthwatchusa.org/HWUSA-Presentations-Community/PDF-Downloads/20200805-Kavanagh-3-Schools-Handout.pdf">http://www.healthwatchusa.org/HWUSA-Presentations-Community/PDF-Downloads/20200805-Kavanagh-3-Schools-Handout.pdf</a>

## **Key References:**

- 1) Coronavirus flare-ups force France to re-close some schools. May 18, 2020. CBS News. <a href="https://www.cbsnews.com/news/coronavirus-france-close-some-reopened-schools-covid-cases-flare-up-today-2020-05-18/">https://www.cbsnews.com/news/coronavirus-france-close-some-reopened-schools-covid-cases-flare-up-today-2020-05-18/</a>
- 2) Ellyatt H. German district sees lockdown return as country tries to suppress regional outbreaks. CNBC. June 23, 2020. <a href="https://www.cnbc.com/2020/06/23/germany-is-struggling-with-more-coronavirus-outbreaks.html">https://www.cnbc.com/2020/06/23/germany-is-struggling-with-more-coronavirus-outbreaks.html</a>
- 3) Nicholson E. Lessons On Reopening Schools The U.S. Could Learn From Germany, Israel And Thailand. NPR. July 10, 2020. <a href="https://www.npr.org/2020/07/10/889842725/lessons-on-reopening-schools-the-u-s-could-learn-from-germany-israel-and-thailan">https://www.npr.org/2020/07/10/889842725/lessons-on-reopening-schools-the-u-s-could-learn-from-germany-israel-and-thailan</a>
- 4) Estrin D. After Reopening Schools, Israel Orders Them To Shut If COVID-19 Cases Are Discovered. NPR. June 3, 2020. <a href="https://www.npr.org/sections/coronavirus-live-updates/2020/06/03/868507524/israel-orders-schools-to-close-when-covid-19-cases-are-discovered">https://www.npr.org/sections/coronavirus-live-updates/2020/06/03/868507524/israel-orders-schools-to-close-when-covid-19-cases-are-discovered</a>
- 5) Strauss V. South Korea closes schools again amid coronavirus spike, days after reopening. Washington Post. May 30, 2020. <a href="https://www.washingtonpost.com/education/2020/05/30/south-korea-closes-schools-again-amid-covid-19-spike-days-after-reopening/">https://www.washingtonpost.com/education/2020/05/30/south-korea-closes-schools-again-amid-covid-19-spike-days-after-reopening/</a>
- (6) The CDC OVID-19 Response Team. Morbidity and Mortality Weekly Report. March 27, 2020 / 69(12);343-346. March 18, 2020. https://www.cdc.gov/mmwr/volumes/69/wr/mm6912e2.htm
- (7) Levin M. Childhood Multisystem Inflammatory Syndrome A New Challenge in the Pandemic. NEJM. July 23, 2020. <a href="https://www.nejm.org/doi/full/10.1056/NEJMe2023158">https://www.nejm.org/doi/full/10.1056/NEJMe2023158</a>
- (8) Feldstein LR, et al., Multisystem Inflammatory Syndrome in U.S. Children and Adolescents NEJM. June 29, 2020. <a href="https://www.nejm.org/doi/full/10.1056/NEJMoa2021680">https://www.nejm.org/doi/full/10.1056/NEJMoa2021680</a>
- (9) Davies NG, et al. Age-dependent effects in the transmission and control of COVID-19 epidemics. Nature Medicine. June 16, 2020. <a href="https://www.nature.com/articles/s41591-020-0962-9">https://www.nature.com/articles/s41591-020-0962-9</a>

- (10) Jones TC, et al. An analysis of SARS-CoV-2 viral load by patient age. MedRxiv. June 9, 2020. https://www.medrxiv.org/content/10.1101/2020.06.08.20125484v1
- (11) Park YJ, et al. Contact Tracing during Coronavirus Disease Outbreak, South Korea, 2020. Emerging Infectious Disease. Oct. 2020 (early release). <a href="https://wwwnc.cdc.gov/eid/article/26/10/20-1315">https://wwwnc.cdc.gov/eid/article/26/10/20-1315</a> article
- (12) Claxton G. et al. How Many Teachers Are at Risk of Serious Illness If Infected with Coronavirus? Kaiser Family Fund. July 10, 2020. <a href="https://www.kff.org/coronavirus-covid-19/issue-brief/how-many-teachers-are-at-risk-of-serious-illness-if-infected-with-coronavirus/">https://www.kff.org/coronavirus-covid-19/issue-brief/how-many-teachers-are-at-risk-of-serious-illness-if-infected-with-coronavirus/</a>
- (13) Anfinrud P, et al. Visualizing Speech-Generated Oral Fluid Droplets with Laser Light Scattering. NEJM. May 21, 2020. 382:2061-2063. <a href="https://www.nejm.org/doi/full/10.1056/NEJMc2007800">https://www.nejm.org/doi/full/10.1056/NEJMc2007800</a>
- (14) Hamner L, et al. High SARS-CoV-2 Attack Rate Following Exposure at a Choir Practice Skagit County, Washington, March 2020. Morbidity and Mortality Weekly Report. May 15, 2020. https://www.cdc.gov/mmwr/volumes/69/wr/mm6919e6.htm
- (15) Lu j, et al. COVID-19 Outbreak Associated with Air Conditioning in Restaurant, Guangzhou, China, 2020. Emerging Infectious Diseases. July 2020. Vol26(7) <a href="https://wwwnc.cdc.gov/eid/article/26/7/20-0764\_article">https://wwwnc.cdc.gov/eid/article/26/7/20-0764\_article</a>
- (16) Guo ZD, et al. Aerosol and Surface Distribution of Severe Acute Respiratory Syndrome Coronavirus 2 in Hospital Wards, Wuhan, China, 2020. Emerging Infectious Disease. July 2020. Vol. 26(7) <a href="https://wwwnc.cdc.gov/eid/article/26/7/20-0885">https://wwwnc.cdc.gov/eid/article/26/7/20-0885</a> article
- (17) van Doremalen N, et al. Aerosol and Surface Stability of SARS-CoV-2 as Compared with SARS-CoV-1. NEJM. April 16, 2020. <a href="https://www.nejm.org/doi/full/10.1056/NEJMc2004973">https://www.nejm.org/doi/full/10.1056/NEJMc2004973</a>
- (18) Allen JG. Schools For Health. Risk Reduction Strategies for Reopening Schools. June, 2020. Harvard TH Chan School of Public Health. <a href="https://schools.forhealth.org/risk-reduction-strategies-for-reopening-schools/">https://schools.forhealth.org/risk-reduction-strategies-for-reopening-schools/</a>
- (19) Graham T. Are Our School Buildings Harming Our Students? HuffPost. Oct. 27, 2013. https://www.huffpost.com/entry/are-our-school-buildings-harming b 3796930
- (20) Weinschreider C. Rethinking School Spaces and Structures to Maintain Proper Distancing Amid COVID-19 Schoolyard. July 14, 2020. <a href="https://blog.schoolspecialty.com/rethinking-school-spaces-and-structures-to-maintain-proper-distancing-amid-covid-19/">https://blog.schoolspecialty.com/rethinking-school-spaces-and-structures-to-maintain-proper-distancing-amid-covid-19/</a>
- (21) Solochek JS. Will schools have enough soap when they reopen? Tampa Bay Times. May 1, 2020. (MSN) <a href="https://www.msn.com/en-us/news/us/will-schools-have-enough-soap-when-they-reopen/ar-BB13trWl">https://www.msn.com/en-us/news/us/will-schools-have-enough-soap-when-they-reopen/ar-BB13trWl</a>