

PANDA

PANDEMICS - DATA & ANALYTICS

DECLARATION FOR THE PROTECTION OF CHILDREN & YOUNG PEOPLE FROM THE COVID-19 RESPONSE

MAY 2021



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“Experience has shown that communities faced with epidemics or other adverse events respond best and with the least anxiety when the normal social functioning of the community is least disrupted.” ([Inglesby et al., 2006](#))

A DEPARTURE FROM PRINCIPLES OF PUBLIC HEALTH

The response to the COVID-19 pandemic in many countries has included policies with no scientific justification and no cost-benefit consideration. Lockdowns, prolonged school closures, mass testing, contact tracing, extensive social distancing and mask wearing in the general population mark a drastic departure from pre-COVID-19 public health guidelines and pandemic preparedness plans ([Inglesby et al., 2006](#); [WHO, 2019](#)).

HEALTH INTERVENTIONS BASED ON NEEDS

During this pandemic, many governments and societies have placed narrow emphasis on reducing ‘cases’ of COVID-19 to prevent deaths from the illness in the high-risk group. This policy failed drastically and inflicted great collateral damage upon vulnerable groups such as low income families and communities, individuals with disabilities and mental illness, the elderly and children and young people (15 to 25 years old ([WHO, n.d.a](#)). A response based on the focused protection of those at high risk from COVID-19 can achieve the best outcomes for all, as described in the Great Barrington Declaration ([Kulldorff et al., 2020](#)) and the Protocol for Reopening Society ([PANDATA, 2020](#)).

EPIDEMIOLOGY SPEAKS LOUDLY

COVID-19 presents a high risk of severe illness and death to the elderly with multiple comorbidities, and a negligible risk to the majority of the population ([CDC, 2021a](#)). For people under 70, the median infection fatality rate (IFR) is 0.05 percent ([Ioannidis, 2021](#)). This estimate includes individuals with comorbidities, which implies that it is significantly lower for those without. For children and young people the IFR is “near zero” ([Oke & Heneghan, 2020](#)). They are also not the main drivers of transmissions to adults, in particular to the elderly ([Ludvigsson, 2020](#)). These advantages were not taken into account when devising the COVID-19 public health policy and, despite mounting epidemiological evidence, continue to be ignored to the lasting detriment of this population.

THE NEXT GENERATION IS IN PERIL

Evidence already shows serious damage to the physical, mental and social wellbeing of children and young people, as well as their educational attainment and future prospects ([Lewis et al., 2021](#)). There was never a reason to disrupt the lives of children and young people and there is every reason to restore normality to this population. Policy-makers should take immediate action to protect children and young people from further harm and injustice, now and in the future.



01

ACTIONS TO RE-ESTABLISH NORMALITY

1. **Lift all COVID-19 mandates**, particularly masks and social distancing on educational, social, medical and leisure services catering to children and young people. Scale up these services to meet increased need.
2. **Offer the COVID-19 vaccine** to high-risk staff as a priority. Children and young people do not benefit from the COVID-19 vaccine as their risk from the disease is almost nil. Mass vaccination and vaccine trials on healthy children are therefore unethical. Vaccinating this population diverts resources away from the vulnerable and other more pertinent health issues (such as child starvation or routine pediatric vaccination). Families of children and young people with severe comorbidities should consult their physician for guidance.
3. **End the testing** of infants, children and young people. In case of illness (the presence of COVID-19 symptoms), they should stay at home until fully recovered. Mandatory testing of students is unethical.

02

ACTIONS TO FACILITATE RECOVERY

1. **Evaluate the short-term and long-term** impact of lockdowns and interrupted and suboptimal educational provisions on children and young people in terms of physical and mental health, social adjustment, educational achievement and career prospects. SMART goals should be set. The magnitude of the harm done should be shared with the public and policy-makers should be held accountable.
2. **Devise remediation programmes** to reach educational, mental and physical well-being goals, particularly for vulnerable groups such as young people who dropped out of school or find themselves in early marriage or pregnant.
3. **Form a multidisciplinary expert taskforce** to build a case to render extended closure of educational institutions unlawful, to ensure that a similar calamity is avoided in the future.

Children and young people have the right to pursue life, liberty, learning, leisure, love and laughter

ANNEX A
SCIENTIFIC
LITERATURE
BEHIND COVID-19
REGARDING
CHILDREN AND
YOUNG PEOPLE



The knowledge about COVID-19 gathered over the last year is hardly represented in the mainstream media or public health messaging. This confuses the public and sustains unnecessary fear. The following are excerpts from the scientific literature detailing the evidence with respect to children and young people.

1. **Children and young people are less likely to get infected** with SARS-CoV-2 than adults (Patel & Verma, 2020).
2. **They have a mostly mild or asymptomatic presentation of the disease** (Lazzerini et al., 2021).
 "Children can also be infected by SARS-CoV-2, but most paediatric cases with laboratory-confirmed SARS-CoV-2 infection are mild; severe COVID-19 disease in children is rare." (Carsetti et al., 2020).
3. **They have almost zero chance of dying from COVID-19**
 "Children are at far greater risk of critical illness from influenza than from COVID-19." (Shekerdeman et al., 2020).
 "Mortality in children seems to be near zero (unlike flu)." (Oke & Heneghan, 2020).
 "[In Sweden,] very few cases [of schoolchildren] have been admitted to ICU and there have been no deaths reported in cases aged 1-19 years" (Folkhälsomyndigheten, 2020).
 "The number of deaths from any cause among the 1,951,905 children in Sweden (as of December 31, 2019) who were 1 to 16 years of age was 65 during the pre-Covid-19 period of November 2019 through February 2020 and 69 during 4 months of exposure to Covid-19 (March through June 2020)" (Ludvigsson et al., 2021).
4. **Asymptomatic transmission is not a major driver of outbreaks** (WHO, n.d.b)
 "In all the history of respiratory-born viruses of any type, asymptomatic transmission has never been the driver of outbreaks. The driver of outbreaks is always a symptomatic person." (Fauci, 2020).
 Within the same household, a recent study noted 7 secondary infections for every 1,000 close asymptomatic contacts, compared to 180 infections for every 1000 close symptomatic contacts (Madewell et al., 2020).
5. **Transmission of SARS-CoV-2 from children to adults is minimal**
 "Children are unlikely to be the main drivers of the pandemic. Opening up schools and kindergartens is unlikely to impact COVID-19 mortality rates in older people." (Ludvigsson, 2020).
 "Systematic tracing and testing of school contacts of paediatric COVID-19 cases showed minimal child-to-child and child-to-adult transmission in primary schools with implemented IPC measures [hygiene, physical distancing & stay home if symptomatic]" (Brandal et al., 2021)
 "This adds to the current evidence that children do not appear to be drivers of transmission" (Heavey et al., 2020).
 "closure or not of schools had no measurable direct impact on the number of laboratory confirmed cases in school-aged children in Finland or Sweden." (Folkhälsomyndigheten, 2020).
 "children do not appear to be super spreaders" (Munro & Faust, 2020).

In a study of 12 million adults in England, “For adults living with children there is no evidence of an increased risk of severe COVID-19 outcomes.” ... “Among 2,567,671 adults >65 years there was no association between living with children and outcomes related to SARS-CoV-2.” ([Forbes et al., 2020](#)).

6. **Teachers are not at higher risk of getting infected** compared to other professions.
“In Sweden a report comparing risk of COVID-19 in different professions, showed no increased risk for teachers.”([Folkhälsomyndigheten, 2020](#)).
7. **Teaching is a young profession** ([NCES, 2012](#); [OECD, 2018](#)). Only a minority of teachers are at risk from COVID-19. Several preventive and therapeutic interventions are available now for their protection.
8. **Children may provide a protective effect to adults.**
“Children are relatively protected from novel coronavirus infection (COVID-19). Increased household exposure to young children was associated with an attenuated risk of testing positive for SARS-CoV-2 and appeared to also be associated with an attenuated risk of COVID-19 disease severe enough to require hospitalisation.” ([Wood et al., 2020](#)).

ANNEX B

SCIENTIFIC LITERATURE ON MASKS



There is very limited research on the effectiveness of masks or the potential harms of their prolonged use for children and young people. The available literature indicates little scientific evidence that mask-wearing among the general public curbs disease spread. Recent reviews and studies are summarized here.

Mask Ineffectiveness

"We did not find evidence that surgical-type face masks are effective in reducing laboratory-confirmed influenza transmission, either when worn by infected persons (source control) or by persons in the general community to reduce their susceptibility." ([Xiao et al., 2020](#)) - Centers for Disease Control and Prevention.

"At present, there is no direct evidence (from studies on COVID-19 and in healthy people in the community) on the effectiveness of universal masking of healthy people in the community to prevent infection with respiratory viruses, including COVID-19." ([WHO, 2020a](#)) - The World Health Organisation.

"The pooled results of randomised trials did not show a clear reduction in respiratory viral infection with the use of medical/surgical masks during seasonal influenza. There were no clear differences between the use of medical/surgical masks compared with N95/P2 respirators in healthcare workers when used in routine care to reduce respiratory viral infection." ([Jefferson et al., 2020](#)) - Cochrane Review.

"It would appear that despite two decades of pandemic preparedness, there is considerable uncertainty as to the value of wearing masks." ([Jefferson & Heneghan, 2020](#)) - The Center for Evidence-Based Medicine, University of Oxford.

Mask Harms

The WHO lists mask disadvantages: discomfort, headaches, breathing difficulties, self-contamination, facial lesions, a false sense of security and poor compliance, among others ([WHO, 2020b](#)).

Children are required to wear masks at school during mild physical activity and play, while the WHO guidance clearly states, "Several studies have demonstrated statistically significant deleterious effects on various cardiopulmonary physiologic parameters during mild to moderate exercise in healthy subjects and in those with underlying respiratory diseases." ([WHO, 2020b](#)).

"Impairments caused by wearing the mask were reported by 68% of the parents. These included irritability (60%), headache (53%), difficulty concentrating (50%), less happiness (49%), reluctance to go to school/kindergarten (44%), malaise (42%) impaired learning (38%) and drowsiness or fatigue (37%)." ([Schwarz et al., 2021](#)).

Mask-wearing greatly impacts communication ([WHO, 2020b](#)) and the ability to express emotions and read facial cues. This can hinder language development in young children and cause them unnecessary distress. It may also negatively impact bonding between newborns and parents ([Green et al., 2021](#)).

ANNEX C

SCIENTIFIC LITERATURE ON THE EFFECTS OF THE COVID-19 RESPONSE ON CHILDREN AND YOUNG PEOPLE



Children and young people have been subjected to harsh and arbitrary restrictions that jeopardize their physical and mental health, social adjustment, their educational achievements and lifelong earning potential, causing grave harms to an entire generation ([Crawley et al. 2020](#); [Lewis et al. 2021](#)), as listed below.

1. **Deterioration of educational attainment** ([Fairfax County, 2020](#); [Bao et al., 2020](#); [Kuhfeld & Tarasawa, 2020](#); [Engzell et al., 2021](#)) resulting from:
 - school closure affecting 1.6 billion learners worldwide ([UNESCO, 2021](#));
 - the failure of online learning ([Fitzpatrick et al., 2020](#));
 - school dropout rates estimated at 24 million learners ([UNESCO, 2020](#));
 - lack of access to computers ([UN News, 2020](#)) and WIFI ([UNESCO, 2021](#)) affecting 830 million and 463 million learners respectively;
 - loss of motivation due to restrictions;
 - demoralization due to repeated quarantining ([Jones, 2021](#));
 - forced absenteeism due to hybrid models of teaching (partly face-to-face, partly online - absenteeism is known to have a negative impact on educational achievement and social behavior ([Ansari & Pianta, 2019](#));
 - ineffective communication between teachers and students due to mask-wearing;
 - reduced teaching time due to added sanitation measures.
2. **Diminished lifetime earnings** and the general prosperity of nations. Following just one term of school loss, “students (...) might expect some 3 percent lower income over their entire lifetimes. For nations, the lower long-term growth related to such losses might yield an average of 1.5 percent lower annual GDP for the remainder of the century... equivalent to a total economic loss of USD 14.2 trillion” ([Hanushek & Woessmann, 2020](#)). This negative impact on future human capital earnings is particularly marked in children from lower socioeconomic groups ([Fuchs-Schündeln et al., 2020](#)).
3. **Stunting of social and emotional development** that is normally facilitated by essential play, sports, extra-curricular activities and normal socialization ([de Araujo, 2020](#)).
4. **Poorer mental health** reflected by an increase in:
 - anxiety, depression ([Loades et al., 2020](#); [Jiao et al., 2020](#)) due to isolation, restrictions on freedom and misinformation about the disease (e.g. the role of asymptomatic children in transmitting to the elderly);
 - obsessive-compulsive disorders ([Nissen et al., 2020](#));
 - alcohol and substance abuse ([Dumas et al., 2020](#));
 - suicidal ideation and suicide ([Odd et al., 2020](#));
 - intentional self-harm, overdose and mental health claims have doubled during lockdowns for teenagers ([Fair Health, 2021](#)).
5. **Increased addiction to electronic devices**, increased screen time ([Montag & Elhai, 2020](#); [Dong et al., 2020](#)), online gaming ([King et al., 2020](#)) and their associated, detrimental effects.

6. **Harms to students with special needs** due to disturbed routines and missed professional services ([Aishworiya & Kang, 2020](#); [Asbury et al., 2020](#); [Cacioppo et al., 2020](#); [Colizzi et al., 2020](#)).
7. **Physical abuse** ([Sidpra et al., 2021](#)) **and the maltreatment of children** ([Lawson et al., 2020](#)) have become more salient. With schools being closed, fewer of these cases are being reported and managed.
8. **Poorer health outcomes** are expected to surge as a result of
 - missed well-child health visits ([Korioth, 2020](#));
 - missed routine pediatric vaccination ([Santoli et al., 2020](#); [Ladhani et al., 2020](#));
 - “cut access to vital services for protection, nutrition, health and well-being” ([UNESCO, 2021](#))- Many children were deprived of their only warm meal offered by the school feeding scheme;
 - an increase in childhood obesity ([Cuschieri & Grech, 2020](#));
 - reduced screening, diagnosis and treatment of childhood diseases such as cancer ([Graetz et al., 2021](#)) and other diseases ([Ladhani et al., 2020](#)).
9. **The over-medicalization of children and young people** through
 - repeated COVID-19 testing of students ([Lacobucci 2021](#); [GOV.UK, 2021](#); [CDC, 2021b](#)) - an unnecessary and potentially painful procedure;
 - the participation of healthy infants ([Lovelace, 2021](#)) and children in vaccine trials ([Pfizer, 2021](#));
 - the push to vaccinate the young against COVID-19 - a disease for which they carry essentially no risk.
10. **The aggravation of societal problems** related to children and young people as a result of the pandemic response such as:
 - criminal exploitation ([Brewster et al., 2020](#));
 - violence, recruitment into militia and child labor ([UNESCO, n.d.](#));
 - “sexual exploitation, adolescent pregnancy, and forced marriages” ([UNESCO, 2021](#));
 - an additional 6.7 million children are estimated to have suffered from wasting in the first year of the pandemic ([Fore et al., 2020](#));
 - starvation and poverty ([Van Lancker & Parolin, 2020](#); [Aborode et al., 2021](#)) with an estimate of 142 million more children living in poor homes ([UNICEF, 2020](#)).

REFERENCES

- Aborode, A. T., Ogunsola, S. O., & Adeyemo, A. O. (2021). A crisis within a crisis: COVID-19 and hunger in African children. *The American Journal of Tropical Medicine and Hygiene*, 104(1), 30-31.
- Aishworiya, R., & Kang, Y. Q. (2020). Including children with developmental disabilities in the equation during this COVID-19 pandemic. *Journal of Autism and Developmental Disorders*. [Commentary published online]
- Ansari, A. & Pianta, R. (2019). School absenteeism in the first decade of education and outcomes in adolescence. *Journal of School Psychology*, 76(2019), 48-61.
- Asbury, K., Fox, L., Deniz, E., Code, A., & Toseeb, U. (2020). How is COVID-19 affecting the mental health of children with special educational needs and disabilities and their families? *Journal of Autism and Developmental Disorders*, 51, 1772-1780.
- Bao, X., Qu, H., Zhang, R., & Hogan, T. P. (2020). Modeling reading ability gain in kindergarten children during COVID-19 school closures. *International Journal of Environmental Research and Public Health*, 17(17), 6371.
- Brewster, B., Robinson, G., Brotherton, V., Silverman, B., & Walsh, D. (2020, October). The impact of COVID-19 on child criminal exploitation. Interim Research briefing. University of Nottingham Rights Lab.
- Brandal, L., Ofitserova, T., Meijerink, H., Rykkvin, R., Lund, H., Hungnes, O., Greve-Isdahl, M., Bragstad, K., Nygård, k., & Winje, B. (2021). Minimal transmission of SARS-CoV-2 from paediatric COVID-19 cases in primary schools, Norway, August to November 2020. *Eurosurveillance*, 26(1).
- Cacioppo, M., Bouvier, S., Bailly, R., Houx, L., Lempereur, M., Mensah-Gourmel, J., Kandalaft, C., Varengue, R., Chatelin, A., Vagnoni, J., Vuillerot, C., Gautheron, V., Dinomais, M., Dheilly, E., Brochard, S., & Pons, C. (2020). Emerging health challenges for children with physical disabilities and their parents during the COVID-19 pandemic: The ECHO French survey. *Annals of Physical and Rehabilitation Medicine*, 101429.
- Carsetti, R., Quintarelli, C., Quinti, I., Mortari, E., Zumla, A., Ippolito, G., & Locatelli, F. (2020). The immune system of children: The key to understanding SARS-CoV-2 susceptibility? The Lancet: Child and Adolescent Health, 3(4), 414-416.
- Centres for Disease Control and Prevention (CDC). (2021a, March 19). COVID-19 pandemic planning scenarios.
- CDC. (2021b, April 22). Considerations for case investigation and contact tracing in K-12 schools and institutions of higher education (IHEs).
- Colizzi, M., Sironi, E., Antonini, F., Ciceri, M. L., Bovo, C., & Zocante, L. (2020). Psychosocial and behavioral impact of COVID-19 in autism spectrum disorder: An online parent survey. *Brain Sciences*, 10(6), 341.
- Crawley, E., Loades, M., Feder, G., Logan, S., Redwood, S., & Macleod, J. (2020). Wider collateral damage to children in the UK because of the social distancing measures designed to reduce the impact of COVID-19 in adults. *British Medical Journal Paediatrics*, 4:e000701.
- Cuschieri, S., & Grech, S. (2020). COVID-19: A one-way ticket to a global childhood obesity crisis? *Springer Journal of Diabetes and Metabolic Disorders*, 19(2).
- de Araújo, L. A., Veloso, C. F., Souza, M. C., Azevedo, J., & Tarro, G. (2020). The potential impact of the COVID-19 pandemic on child growth and development: a systematic review. *Jornal de pediatria*, S0021-7557.
- Dong, H., Yang, F., Xiaozi, L., & Wei, H. (2020). Internet addiction and related psychological factors among children and adolescents in China during the coronavirus disease 2019 (COVID-19) epidemic. *Frontiers in Psychiatry*, 11, 751.
- Dumas, T. M., Ellis, W., & Litt, D. M. (2020). What does adolescent substance use look like during the COVID-19 pandemic? Examining changes in frequency, social contexts, and pandemic-related predictor. *The Journal of Adolescent Health*, 67(3), 354-361.

Engzell, A., Frey, A., & Verhagen, M. (2021). Learning loss due to school closures during the COVID-19 pandemic. *Proceedings of the National Academy of Sciences of the United States of America*, 118(17), e2022376118.

Fairfax County Public Schools. (2020). Study of teaching and learning during the COVID 19 pandemic: Analyses of Q1 secondary marks. Office of Research and Strategic Improvement.

Fair Health. (2021, March 2). The impact of COVID-19 on pediatric mental health: A study of private healthcare claims. [White Paper].

Fauci, A. (2020, September 5). Asymptomatic transmission never drives outbreaks [Video]. YouTube. Retrieved April 18, 2020.

Fitzpatrick, B. R., Berends, M., Ferrare, J. J., & Waddington, R. J. (2020). Virtual Illusion: Comparing student achievement and teacher classroom characteristics in online and brick-and-mortar charter schools. *Educational Researcher*, 49(3), 161-175.

Folkhälsomyndigheten. (2020) Covid-19 in schoolchildren: A comparison between Finland and Sweden. [Article number: Public Health Agency of Sweden 20108-1].

Forbes, H., Morton, C., Bacon, S., McDonald, H., Minassian, C., Brown, J., Rentsch, C., Mathur, R., Schultze, A., DeVito, N., MacKenna, B., Hulme, W., Croker, R., Walker, A., Williamson, E., Bates, C., Mehrkar, A., Curtis, H., Evans, C., ... Tomlinson, L. (2020). Association between living with children and outcomes from COVID-19: An OpenSAFELY cohort study of 12 million adults in England. *The British Medical Journal*, 372:n628.

Fore, H., Dongyu, Q., Beasley, D., & Ghebreyesus, T. (2020). Child malnutrition and COVID-19: The time to act is now. *The Lancet*, 396(10250), 517-518.

Fuchs-Schündeln, N., Krueger, D., Ludwig, A., & Popova, I. (2020, November). The long-term effects of school closures. *VoxEU.org*. The Centre for Economic Policy Research.

GOV.UK. (2021, March 30). Coronavirus (COVID-19).

Graetz, D., Agulnik, A., Ranadive, R., Vedaraju, Y., Chen, Y., Chantada, G., Metzger, M., Mukkada, S., Force, L., Friedrich, P., Lam, C., Sniderman, E., Bhakta, N., Hessissen, L., & Dalvi, R. (2021). Global effect of the COVID-19 pandemic on paediatric cancer care: A cross-sectional study. *The Lancet Child & Adolescent Health*, 5(5), 332-340.

Green, J., Staff, L., Bromley, P., Jones, L., & Petty, J. (2021). The implications of face masks for babies and families during the COVID-19 pandemic: A discussion paper. *Journal of Neonatal Nursing*, 27(1), 21-25

Hanushek, E., & Woessmann, L. (2020, September). The Economic impacts of learning losses. *OECD Education Working Paper* Nr. 225. Organization for Economic Co-operation and Development.

Heavey, L., Casey, G., Kelly, C., Kelly, D., & McDarby, G. (2020). No evidence of secondary transmission of COVID-19 from children attending school in Ireland, 2020. *Euro Surveillance*, 25(21):2000903.

Ioannidis, J. P. (2021). Infection fatality rate of COVID-19 inferred from seroprevalence data. *Bulletin World Health Organisation*, 99, 19-33F.

Inglesby, T. V., Nuzzo, J. B., O'Toole, T., & Henderson, D. A. (2006). Disease mitigation measures in the control of pandemic influenza. *Biosecure Bioterror*, 4(4), 366-75.

Jefferson, T., Del Mar, C. B., Dooley, L., Ferroni, E., Al-Ansary, L. A., Bawazeer, G. A., Driel, M. L., Jones, M. A., Thorning, S., Beller, E. M., Clark, J., Hoffmann, T. C., Glasziou, P. P., & Conly, J. M. (2020). Physical interventions to interrupt or reduce the spread of respiratory viruses. *Cochrane Database of Systematic Reviews*, 11(CD006207).

Jefferson, T., & Heneghan, C. (2020, July 23). Masking lack of evidence with politics. The Center for Evidence-Based Medicine.

Jiao, W. Y., Wang, L. N., Liu, J., Fang, S. F., Jiao, F. Y., Pettoello-Mantovani, M., & Somekh, E. (2020). Behavioral and emotional disorders in children during the COVID-19 epidemic. *The Journal of Pediatrics*, 221, 264-266.e1.

Jones, R. (2021). Reopening schools is welcomed but new mitigations are unnecessary and damaging. *The British Medical Journal*. [Rapid response].

- King, D. L., Delfabbro, P. H., Billieux, J., & Potenza, M. N. (2020). Problematic online gaming and the COVID-19 pandemic. *Journal of Behavioral Addictions*, 9(2), 184-186.
- Korioth, T. (2020). AAP issues guidance to ensure continued care for children during pandemic. [Editor's Note]. AAP News.
- Kulldorff, M., Gupta, S. & Bhattacharya, J. (2020, October 4). The Great Barrington Declaration.
- Kuhfeld, M., & Tarasawa, B. (2020, April) The COVID-19 slide: What summer learning loss can tell us about the potential impact of school closures on student academic achievement. (KAP5122). NWEA Research.
- Lacobucci, G. (2021). Covid-19: Mass testing at UK universities is haphazard and unscientific, finds BMJ investigation. *The British Medical Journal*, 372:n848.
- Ladhani, S., Viner, R., Lynn, R., Baawuah, F., Saliba, V., & Ramsay, M. (2020, August 6) Lockdown measures reduced the risk of Covid-19, but had unintended consequences for children. *The British Medical Journal Opinion*. [Letter to the editor].
- Lawson, M., Piel, M., & Simon, M. (2020). Child maltreatment during the COVID-19 pandemic: consequences of parental job loss on psychological and physical abuse towards children, child abuse & neglect. *Elsevier*, 110(Part 2).
- Lazzerini, M., Sforzi, I., Trapani, S., Biban, P., Silvagni, D., Villa, C., Tibaldis, J., Bertacca, L., Felici, E., Perricone, G., Parrino, R., Gioè, C., Lega, S., Conte, M., Marchetti, F., Magista, A., Berlese, P., Martellosi, S., Vaienti, F., ... Mariani, I., on behalf of COVID-19 Italian Pediatric Study Network (2021). Characteristics and risk factors for SARS-CoV-2 in children tested in the early phase of the pandemic: A cross-sectional study, Italy, 23 February to 24 May 2020. *Euro Surveillance*, 26(14):pii=2001248.
- Lewis, S., Munro, A., Smith, G. & Pollock, M. (2021) Closing schools is not evidence based and harms children. *British Medical Journal*, 372(521).
- Loades, M., Chatburn, E., Higson-Sweeney, N., Reynolds, S., Shafran, R., Brigden, A., Linney, C., McManus, M., Borwick, C., & Crawley, E. (2020). Rapid systematic review: The impact of social isolation and loneliness on the mental health of children and adolescents in the context of COVID-19. *Journal of the American Academy of Child & Adolescent Psychiatry*, 59(1), 1218-1239.
- Lovelace, B. (2021, March 25). Pfizer begins Covid vaccine trial on infants and young kids. CNBC. Health and Science.
- Ludvigsson, J. (2020). Children are unlikely to be the main drivers of the COVID-19 pandemic - A systematic review. *Acta Paediatrica*, 109(8), 1525-1530.
- Ludvigsson, J., Engerström, L., Nordenhäll, C., & Larsson, E. (2021). Open schools, COVID-19, and child and teacher morbidity in Sweden. *The New England Journal of Medicine*, (389), 669-671.
- Madewell, Z. J., Yang, Y., Longini, I. M., Halloran, M. E., & Dean, N. E. (2020). Household transmission of SARS-CoV-2: A systematic review and meta-analysis. *The Journal of The American Medical Association Network Open*, 3(12):e2031756.
- Montag, C., & Elhai, J. (2020). Discussing digital technology overuse in children and Adolescents during the COVID-19 pandemic and beyond: On the importance of Considering Affective Neuroscience Theory. *Elsevier Addictive Behaviors Reports*, 12, 100313.
- Munro, A., & Faust, S. (2020). Children are not COVID-19 super spreaders: time to go back to school. *Archives of Disease in Childhood, The British Medical Journal*, 105, 618-619.
- National Center for Education Statistics (NCES). (2012). Schools and staffing survey. [Table 2. Average and median age of public school teachers and percentage distribution of teachers, by age category, sex, and state: 2011-12].
- Nissen, J. B., Højgaard, D. & Thomsen, P. H. (2020). The immediate effect of COVID-19 pandemic on children and adolescents with obsessive compulsive disorder. *BMC Psychiatry*, 20, 511.

Odd., D., Sleaf, V., Appleby, L., Gunnell, D., & Luyt, K. (2020, July) Child suicide rates during the COVID-19 pandemic in England: Real-TIME surveillance. National Child Mortality Database (NCMD).

Oke, J. & Heneghan, C. (2020, March 17). Global Covid-19 case fatality rates. The Centre for Evidence-Based Medicine (CEBM).

Organisation for Economic Co-operation and Development (OECD). (2018). Who are the teachers? Age distribution of teachers [Excell]. Retrieved April 18, 2021.

PANDATA (Pandemics Data & Analytics). (2020, December). Protocol for reopening society.

Patel, A. B. & Verma, A. (2020). Nasal ACE2 levels and COVID-19 in children. *The Journal of the American Medical Association*, 323(23), 2386-2387.

Pfizer. (2021). Clinical trials in children. Retrieved April 6, 2021.

Santoli, J. M., Lindley, M. C., DeSilva, M. B., Kharbanda, E. O., Daley, M. F., Galloway, L., Gee, J., Glover, M., Herring, B., kang, Y., Lucas, P., Noblit, C., Trooper, J., Vogt, T., & Weintraub, E. (2020). Effects of the COVID-19 pandemic on routine pediatric vaccine ordering and administration - United States, 2020. *Morbidity and Mortality Weekly Report*, 69, 591-593.

Schwarz, S., Jenetzky, E., Krafft, H., Maurer, T., & Martin, D. (2021, March 1). Corona Children Studies "Co-Ki": First Results of a Germany-Wide Registry on Mouth and Nose Covering (Mask) in Children. *Research Square*. [Online preprint]

Shekerdemain, L., Mahmood, M., & Wolfe, K. (2020) Characteristics and outcomes of children with coronavirus disease (COVID-19) infection admitted to US and Canadian pediatric intensive care units. *The Journal of American Medical Association Pediatrics*, 174(9), 868-873.

Sidpra J., Abomeli D., Hameed B., & Baker, J., & Kshitij, M. (2021) Rise in the incidence of abusive head trauma during the COVID-19 pandemic. *Archives of Disease in Childhood*, 106:e14.

United Nations Educational, Scientific and Cultural Organization (UNESCO). (n.d.). Adverse consequences of school closures. [COVID-19 education response]. Retrieved May 4, 2021.

UNESCO. (2020, August 8). UN Secretary-General warns of education catastrophe, pointing to UNESCO estimate of 24 million learners at risk of dropping out.

UNESCO. (2021, March 19). One year into COVID-19 education disruption: where do we stand?

United Nations International Children's Emergency Fund (UNICEF). (2020, November). Children in monetary poor households and COVID-19. [Technical note].

United Nations News. (2020, December 28). The virus that shut down the world: Education in crisis.

Van Lancker, W., & Parolin, Z. (2020) COVID-19, school closures, and child poverty: A social crisis in the making. *The Lancet Public Health*, 5(5).

World Health Organisation (WHO). (n.d.a). Adolescent health in the South-East Asia region. Retrieved May 4, 2021.

WHO. (n.d.b). Transmission of COVID-19 by asymptomatic cases. Retrieved May 4, 2021.

WHO. (2019) Global influenza programme: Non-pharmaceutical public health measures for mitigating the risk and impact of epidemic and pandemic influenza. [Licence: CC BY-NC-SA 3.0 IGO].

WHO. (2020a, June 5). Advice on the use of masks in the context of COVID-19. [Interim Guidance]. (Report Number: WHO/2019-nCov/IPC_Masks/2020.4).

WHO. (2020b, December 21) Mask Use in the Context of Covid-19: Interim Guidance. [Report number: WHO/2019-nCoV/IPC_Masks/2020.5].

Wood, R., Thompson, E., Galbraith, R., Gribben, C., Caldwell, D., Bishop, J., Reid, M., Shah, A., Templeton, K., Goldberg, D., Robertson, C., Hutchinson, S., Colhoun, H., McKeigue, P., & McAllister, D. (2020). Sharing a household with children and risk of COVID-19: A study of over 300,000 adults living in healthcare worker households in Scotland. *Archives of Disease in Childhood*, 0:1-6.

Xiao, J., Shiu, E., Gao, H., Wong, J., Fong, M., Ruy, S., & Cowling, B. (2020). Nonpharmaceutical measures for pandemic influenza in nonhealthcare settings: personal protective and environmental measures. *Emerging Infectious Diseases Journal*, 26(5). Centers for Disease Control and Prevention (CDC).