

No. 21-3268

**UNITED STATES COURT OF APPEALS
FOR THE EIGHTH CIRCUIT**

The ARC OF IOWA, *et al.*,
Plaintiffs-Appellees,
v.

KIM REYNOLDS, in her official capacity as Governor of Iowa; ANN LEBO, in
her official capacity as Director of the Iowa Department of Education
Defendants-Appellants,

AKENY COMMUNITY SCHOOL DISTRICT, *et al.*,
Defendants

On Appeal from the United States District Court
for the Southern District of Iowa, No. 4:21-cv-264
Before the Honorable Robert W. Pratt

**BRIEF OF *AMICI CURIAE* IOWA CHAPTER OF AMERICAN ACADEMY
OF PEDIATRICS AND AMERICAN ACADEMY OF PEDIATRICS IN
SUPPORT OF PLAINTIFFS-APPELLEES AND AFFIRMANCE**

LEON GREENFIELD
PERRY LANGE
DAVID KATZ
ANNA NOONE
WILMER CUTLER PICKERING
HALE AND DORR LLP
1875 Pennsylvania Avenue NW
Washington, DC 20006
(202) 663-6000
leon.greenfield@wilmerhale.com
perry.lange@wilmerhale.com
david.katz@wilmerhale.com
anna.noone@wilmerhale.com

CAITLIN L. SLESSOR
SAMUEL E. JONES
SHUTTLEWORTH & INGERSOLL, P.L.C.
115 3rd St. SE, Ste 500
P.O. Box 2107
Cedar Rapids, IA 52406-2107
(319) 365-9461
cls@shuttleworthlaw.com
sej@shuttleworthlaw.com

JESSICA ANNE MORTON
JEFFREY B. DUBNER
DEMOCRACY FORWARD FOUNDATION
655 15th St. NW, Ste. 800
Washington DC
(202) 448-9090
jmorton@democracyforward.org
jdubner@democracyforward.org

November 5, 2021

CORPORATE DISCLOSURE STATEMENT

Pursuant to Federal Rule of Appellate Procedure 26.1 and Eighth Circuit Rule 26.1A, the Iowa Chapter of American Academy of Pediatrics and American Academy of Pediatrics state that they are nonprofit organizations with no parent corporations or publicly traded stock.

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CASES

Prince v. Massachusetts,
321 U.S. 158 (1944) 25

S.B. v. Lee,
No. 21-CV-00317, 2021 WL 4346232 (E.D. Tenn. Sept. 24, 2021)..... 19

Winter v. Natural Resources Defense Council, Inc.,
555 U.S. 7 (2008).....2

OTHER AUTHORITIES

AAP, *Caring for Children and Youth with Special Health Needs During the COVID-19 Pandemic*,
<https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/caring-for-children-and-youth-with-special-health-care-needs-during-the-covid-19-pandemic/> (last updated Sept. 20, 2021)..... 7, 8, 11, 13

AAP, *Children and COVID-19: State-Level Data Report, Summary of Findings*, AAP, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-state-level-data-report/> (data available as of Oct. 28, 2021).....4

AAP, *COVID-19 Guidance for Safe Schools and Promotion of In-Person Learning* <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/covid-19-planning-considerations-return-to-in-person-education-in-schools/> (last updated Nov. 2, 2021)..... 8, 10, 11, 12, 14

AAP, *COVID-19 Interim Guidance*,
<https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/> (last updated Aug. 2, 2021).....9

AAP, *COVID-19 Testing Guidance*,
<https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/covid-19-testing-guidance/> (last updated July 8, 2021).....9

AAP, *Do Masks Delay Speech and Language Development?*, <https://healthychildren.org/English/health-issues/conditions/COVID-19/Pages/Do-face-masks-interfere-with-language-development.aspx> (last updated Aug. 26, 2021).....22, 23

AAP, *Face Masks*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/cloth-face-coverings/> (last updated Aug. 11, 2021) 8, 11, 20, 24

AAP, *Guidance on Providing Pediatric Well-Care During COVID-19*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/guidance-on-providing-pediatric-well-care-during-covid-19/> (last updated Aug. 30, 2021).....9

AAP, *Interim Guidance on Supporting the Emotional and Behavioral Health Needs of Children, Adolescents, and Families During the COVID-19 Pandemic*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/interim-guidance-on-supporting-the-emotional-and-behavioral-health-needs-of-children-adolescents-and-families-during-the-covid-19-pandemic/> (last updated July 28, 2021)..... 9, 24

AAP, *Multisystem Inflammatory Syndrome in Children (MIS-C) Interim Guidance*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/multisystem-inflammatory-syndrome-in-children-mis-c-interim-guidance/> (last updated Feb. 10, 2021).....5

AAP, *Post-COVID-19 Conditions in Children and Adolescents*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/post-covid-19-conditions-in-children-and-adolescents/> (last updated July 28, 2021)..... 6, 9

ABC Science Collaborative, *The ABCs of North Carolina’s Plan*, <https://abcsciencecollaborative.org/the-abcs-of-north-carolinas-plan-a/> (last visited Sept. 1, 2021)..... 17

ABC Science Collaborative, *Final Report for NC School Districts and Charters in Plan A*, <https://abcsciencecollaborative.org/wp-content/uploads/2021/06/ABCs-Final-Report-June-2021.06-esig-DB-KZ-6-29-21.pdf> (June 30, 2021)..... 17

Amy Falk, et al., *COVID-19 Cases and Transmission in 17 K-12 Schools - Wood County, Wisconsin, August 31-November 29, 2020*, 70 Morbidity & Mortality Weekly Rep. 136 (Jan. 29, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/mm7004e3.htm>..... 18

Ashley L. Ruba & Seth D. Pollak, *Children’s Emotion Inferences from Masked Faces: Implications for Social Interactions During COVID-19*, PLOS ONE (Dec. 23, 2020), <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0243708> 23

CDC, *Delta Variant: What We Know About the Science* (Aug. 26, 2021), <https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html>.....4

CDC, *Interim Public Health Recommendations for Fully Vaccinated People—Summary of Recent Changes*, <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html> (updated Oct. 15, 2021)..... 13

CDC, *Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with Coronavirus Disease 19 (COVID-19)* (May 14, 2020), <https://emergency.cdc.gov/han/2020/han00432.asp>..... 5

CDC, *People with Certain Medical Conditions*, <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html> (last updated Aug. 20, 2021).....7

CDC, *Science Brief: Community Use of Cloth Masks to Control the Spread of SARS-CoV-2*, <https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/masking-science-sars-cov2.html> (last updated May 7, 2021)..... 15

CDC, *Studies Show More COVID-19 Cases in Areas Without School Masking Policies*, <https://www.cdc.gov/media/releases/2021/p0924-school-masking.html> (Sept. 24, 2021) 19

Children’s Hospital Association & American Academy of Pediatrics,
Children and COVID-19: State Data Report (Oct. 28, 2021),
<https://downloads.aap.org/AAP/PDF/AAP%20and%20CHA%20-%20Children%20and%20COVID-19%20State%20Data%20Report%2010.28%20FINAL.pdf>..... 4, 5

Christopher T. Leffler, et al., *Association of Country-wide Coronavirus Mortality with Demographics, Testing, Lockdowns, and Public Wearing of Masks*, 103 Am. J. Tropical Med. Hygiene 2400 (Oct. 26, 2020), <https://pubmed.ncbi.nlm.nih.gov/33124541/> 17

Danilo Buonsenso, et al., *Preliminary evidence on long COVID in children*, Acta Paediatrica (Apr. 9, 2021), <https://doi.org/10.1111/apa.15870>6

Darria L. Gillespie, et al., *The Experience of 2 Independent Schools With In-Person Learning During the COVID-19 Pandemic*, 91 J. Sch. Health 347 (Mar. 25, 2021), <https://onlinelibrary.wiley.com/doi/10.1111/josh.13008> 18

Derek K. Chu, et al., *Physical Distancing, Face Masks, and Eye Protection to Prevent Person-to-Person Transmission of SARS-CoV-2 and COVID-19: A Systematic Review and Meta-Analysis*, A Systematic Review and Meta-Analysis, 395 Lancet 1973 (June 1, 2020), [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)31142-9/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31142-9/fulltext) 17

Fiona Russell et al., *COVID-19 in Victorian Schools: An Analysis of Child-Care and School Outbreak Data and Evidence-Based Recommendations for Opening Schools and Keeping Them Open*, Murdoch Children’s Research Inst. & The Univ. of Melb. (Nov. 9, 2020), https://www.mcri.edu.au/sites/default/files/media/documents/covid-19_in_victorian_schools_report.pdf..... 18

Heesoo Joo, et al., *Decline in COVID-19 Hospitalization Growth Rates Associated with Statewide Mask Mandates—10 States, March–October 2020*, 70 Morbidity & Mortality Weekly Rep. 212 (Feb. 12, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/mm7006e2.htm>..... 17

Helen Thomson, *Children with long covid*, 249 *New Scientist* 10 (2021), <https://www.sciencedirect.com/science/article/abs/pii/S0262407921003031?via%3Dihub>.....6

Jeremy Howard, et al., *An Evidence Review of Face Masks Against COVID-19*, 118 *Proc. of the Nat’l Acad. of Servs.* e2014564118 (Jan. 26, 2021), <https://www.pnas.org/content/118/4/e2014564118>..... 17

John T. Brooks & Jay C. Butler, *Effectiveness of Mask Wearing to Control Community Spread of SARS-CoV-2*, 325 *J. of Am. Med. Ass’n* 998 (Feb 10, 2021), <https://jamanetwork.com/journals/jama/fullarticle/2776536> 17

Jaclyn Krah Cichowicz, et al., *Respiratory Protection vs. Source Control—What’s the Difference?*, *CDC NIOSH Science Blog* (Sept. 8, 2020), <https://blogs.cdc.gov/niosh-science-blog/2020/09/08/source-control/>..... 16

Madelynn A. Lillie, et al., *Increasing Passive Compliance to Wearing a Facemask in Children with Autism Spectrum Disorder*, 54 *J. Applied Behav. Analysis* 582 (Mar. 19, 2021), <https://pubmed.ncbi.nlm.nih.gov/33740281/> 23

Maithri Sivaraman, et al., *Telehealth Mask Wearing Training for Children with Autism During the COVID-19 Pandemic*, 54 *J. Applied Behav. Analysis* 70 (Nov. 25, 2020), <https://pubmed.ncbi.nlm.nih.gov/33241588/> 23

Mary Halbur, et al., *Tolerance of Face Coverings for Children with Autism Spectrum Disorder*, *Autism Spectrum Disorder*, 54 *J. Applied Behav. Analysis* 600 (Mar. 26, 2021), <https://pubmed.ncbi.nlm.nih.gov/33772777/> 23

Megan Jehn, et al., *Association Between K–12 School Mask Policies and School-Associated COVID-19 Outbreaks—Maricopa and Pima Counties, Arizona, July–August 2021*, 70 *Morbidity & Mortality Weekly Rep.* 39 (Early Release) (Sept. 24, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7039e1-H.pdf>..... 19

Miriam E. Van Dyke, et al., *Trends in County-Level COVID-19 Incidence in Counties With and Without a Mask Mandate—Kansas, June 1-August 23, 2020*, 69 *Morbidity & Mortality Weekly Rep.* 1777 (Nov. 27, 2020), <https://www.cdc.gov/mmwr/volumes/69/wr/mm6947e2.htm>..... 17

Patrick Dawson, et al., *Pilot Investigation of SARS-CoV-2 Secondary Transmission in Kindergarten Through Grade 12 Schools Implementing Mitigation Strategies—St. Louis County and City of Springfield, Missouri, December 2020*, 70 *Morbidity & Mortality Weekly Rep.* 449 (Mar. 26, 2021), https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e4.htm?s_cid=mm7012e4_w..... 18

Rajesh Samannan, et al., *Effect of Face Masks on Gas Exchange in Healthy Persons and Patients with Chronic Obstructive Pulmonary Disease*, 18 *Annals of Am. Thoracic Soc’y* 539 (2021), <https://www.atsjournals.org/doi/full/10.1513/AnnalsATS.202007-812RL>..... 21

Rebecca B. Hershow, et al., *Low SARS-CoV-2 Transmission in Elementary Schools - Salt Lake County, Utah, December 3, 2020-January 31, 2021*, 70 *Morbidity & Mortality Weekly Rep.* 442 (Mar. 26, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e3.htm>..... 18

Ricardo Lubrano, et al., *Assessment of Respiratory Function in Infants and Young Children Wearing Face Masks During the COVID-19 Pandemic*, *JAMA Network Open* (Mar. 2, 2021), <https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2776928>..... 21

Samantha E. Budzyn, et al., *Pediatric COVID-19 Cases in Counties With and Without School Mask Requirements—United States, July 1–September 4, 2021*, 70 *Morbidity & Mortality Weekly Rep.* 39 (Early Release) (Sept. 24, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7039e3-H.pdf>..... 19

Sharyn E. Parks, et al., *COVID-19–Related School Closures and Learning Modality Changes—United States, August 1–September 17, 2021*, 70 Morbidity & Mortality Weekly Rep. (Early Release) (Sept. 24, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7039e2-H.pdf>..... 19

Steven L. Shein, et al., *The Effects of Wearing Facemasks on Oxygenation and Ventilation at Rest and During Physical Activity*, PLOS ONE (Feb. 24, 2021), <https://pubmed.ncbi.nlm.nih.gov/33626065/> 21

UNICEF, *Supporting your Child’s Mental Health During COVID-19 School Returns*, <https://www.unicef.org/coronavirus/supporting-your-childs-mental-health-during-covid-19-school-return> (last updated Oct. 1, 2021)..... 24

Wei Lyu & George L. Wehby, *Community Use of Face Masks and COVID-19: Evidence from a Natural Experiment of State Mandates in the US*, 39 Health Aff. 1419 (June 16, 2020), <https://www.healthaffairs.org/doi/10.1377/hlthaff.2020.00818> 17, 18

INTEREST OF AMICI CURIAE¹

The Iowa Chapter of the American Academy of Pediatrics (“IA AAP”) is a non-profit educational organization and professional society comprising more than 350 members, including pediatricians, residents, and medical students from Iowa hospitals, community clinics, and school-based health centers. IA AAP works to support the optimal health of children by addressing the needs of children, their families, their communities, and their health care providers.

The American Academy of Pediatrics (“AAP”) was founded in 1930 and is a national, not-for-profit professional organization dedicated to furthering the interests of child and adolescent health. The AAP’s membership includes over 67,000 primary care pediatricians, pediatric medical subspecialists, and pediatric surgical specialists. Over the past year and a half, the AAP has devoted substantial resources to researching the scientific literature regarding how to treat COVID-19 and reduce its spread so that the AAP can provide up-to-date, evidence-based guidance for pediatricians and public health officials. This includes, among other things, interim guidance on the use of face masks as an infection control measure and on operating safe schools during the COVID-19 pandemic.

¹ The parties have consented to the filing of this brief. No party’s counsel authored this brief in whole or in part, and no party or person other than Amici, their members, and their counsel contributed money towards the preparation or filing of this brief.

SUMMARY OF ARGUMENT

The public interest is a paramount consideration in adjudicating Defendants' appeal from the grant of a preliminary injunction. As the Supreme Court has explained, "courts of equity should pay particular regard for the public consequences in employing the extraordinary remedy of injunction." *Winter v. Nat. Res. Def. Council, Inc.*, 555 U.S. 7, 24 (2008). Here, there is no question about where the public interest points: the balance of the equities and the public interest weigh in favor of the injunction barring enforcement of House File 847 ("HF 847"), which prohibits schools from implementing universal masking policies. H.F. 847, 89th Gen. Assemb., Reg. Sess. (Iowa 2021). The science is clear: universal mask policies in schools protect all children, particularly the medically vulnerable. Schools that lack such policies experience significantly higher rates of COVID-19 transmission.

Over the past 18 months, *Amici* have worked ceaselessly to evaluate the dangers of COVID-19 and the potential public health measures for reducing its deadly spread. COVID-19 poses grave risks to children, even more so to children with special health needs, and these risks escalated significantly with the highly transmissible Delta variant and resumption of in-person schooling. At the same time, the AAP strongly recommends that everything possible be done to keep students in school in-person, something that can be done safely only if all

reasonable precautions are taken. The AAP has conducted a comprehensive review of the medical literature to determine what public health measures can effectively reduce the risk that COVID-19 poses to American’s children. That review and the experiences of the front-line pediatric practitioners who make up the IA AAP and AAP’s membership prove beyond any doubt that universal mask policies in schools significantly reduce the spread of COVID-19 in school populations where many children—including most children under the age of 12—are unvaccinated. This brief provides an overview of that literature and explains why universal mask policies are so crucial to fighting COVID-19.

For the above reasons and those discussed below, Amici, who are major medical organizations representing physicians and other clinicians who serve patients in Iowa and nationwide, urge the Court to affirm the district court’s injunction.

ARGUMENT

I. COVID-19 IS A SERIOUS PEDIATRIC ILLNESS

There is a persistent belief that COVID-19 does not affect children or cannot cause serious illness in children. This is false. As of October 28, 2021, 6,396,278 total child COVID-19 cases have been reported in the United States, representing

more than 16% of the total U.S. cases.² Even more troubling, over the past month, children have made up approximately 25% of all reported COVID-19 cases.³ Iowa alone has reported 66,191 child cases of COVID-19 since the beginning of the pandemic.⁴

The prevalence of pediatric COVID-19 has skyrocketed since the school year began. Almost one third of all child cases since the beginning of the pandemic have been diagnosed between August 13 and October 28.⁵ This surge appears to be due to two principal factors: the resumption of in-person schooling (and particularly schooling in places without universal masking requirements), and the emergence of the Delta variant, which is more than twice as contagious as previous variants.⁶

² The AAP and the Children’s Hospital Association have collaborated throughout the pandemic to collect and share all publicly available data from states on COVID-19 cases among children. See AAP, *Children and COVID-19: State-Level Data Report, Summary of Findings*, AAP, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/children-and-covid-19-state-level-data-report/> (data available as of Oct. 28, 2021).

³ Children’s Hosp. Ass’n & American Acad. of Pediatrics, *Children and COVID-19: State Data Report* at Fig. 8 (Oct. 28, 2021), <https://downloads.aap.org/AAP/PDF/AAP%20and%20CHA%20-%20Children%20and%20COVID-19%20State%20Data%20Report%2010.28%20FINAL.pdf>.

⁴ *Id.* at Appx. Tab. 3A.

⁵ *Id.* at Fig. 6.

⁶ See CDC, *Delta Variant: What We Know About the Science* (Aug. 26, 2021), <https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html>.

As the rate of COVID-19 has soared, so has the number of serious cases. Just among the 24 states and 1 city that report child hospitalizations, more than 6,600 children were hospitalized due to COVID-19 between August 13 and October 28, more than 25% of the total child hospitalizations to date.⁷ Since the beginning of August, more children have died each week than in all but one previous week of the pandemic.⁸ As the hospitalization rate reflects, COVID-19 can cause severe symptoms and potentially fatal outcomes even in children. Among other things, COVID-19 infections can produce multisystem inflammatory syndrome (MIS-C), which involves clinically severe levels of fever, inflammation, and dysfunction or shock in multiple organ systems.⁹

⁷ See Children's Hosp. Ass'n & American Acad. of Pediatrics, *Children and COVID-19: State Data Report*, *supra* note 3, at Appx. Tab. 2B.

⁸ *Id.* at Appx. Tab. 2C (The week ending December 3, 2020 is the only previous week in which as many child deaths were reported as even the *lowest* week since the beginning of August. Notably, this was the week after Thanksgiving. This drives home the importance of promptly enjoining the Executive Order, to reduce the rate of COVID-19 in advance of the surge that will likely accompany the upcoming holidays).

⁹ See CDC, *Multisystem Inflammatory Syndrome in Children (MIS-C) Associated with Coronavirus Disease 19 (COVID-19)* (May 14, 2020), <https://emergency.cdc.gov/han/2020/han00432.asp>; AAP, *Multisystem Inflammatory Syndrome in Children (MIS-C) Interim Guidance*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/multisystem-inflammatory-syndrome-in-children-mis-c-interim-guidance/> (last updated Feb. 10, 2021).

Several studies have shown that, even when the initial symptoms are mild, COVID-19 can also lead to long-term symptoms in children and adolescents.¹⁰ Potential long-term symptoms include respiratory symptoms such as chest pain, cough, exercise-induced dyspnea, and pulmonary emboli; myocarditis (i.e., inflammation of the heart muscle), shortness of breath, arrhythmia, and/or fatigue, which can lead to heart failure, myocardial infarction, stroke, or sudden cardiac arrest; and persistent loss of the sense of smell (anosmia) or taste (ageusia), which can affect the nutritional status and quality of life of children and adolescents and be particularly disruptive to the feeding behavior of very young children.¹¹ Long-term symptoms can also include neurodevelopmental impairment, including significant acute injuries such as stroke or encephalitis and subtle but persistent injury in cognitive, language, academic, motor, mood, and behavioral domains;

¹⁰ See, e.g., Danilo Buonsenso, et al., *Preliminary evidence on long COVID in children*, *Acta Paediatrica* (Apr. 9, 2021), <https://doi.org/10.1111/apa.15870> (studying 129 children in Italy and reporting that 42.6% experienced at least one symptom more than 60 days after infection); Helen Thomson, *Children with long covid*, 249 *New Scientist* 10 (2021), <https://www.sciencedirect.com/science/article/abs/pii/S0262407921003031?via%3Dihub> (U.K. Office of National Statistics estimate that 12.9% of children 2-11 years of age and 14.5% of children 12-16 years of age experienced symptoms 5 weeks after infection).

¹¹ AAP, *Post-COVID-19 Conditions in Children and Adolescents*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/post-covid-19-conditions-in-children-and-adolescents/> (last updated July 28, 2021).

cognitive foggiess or fatigue; physical fatigue; and mental or behavioral health impacts such as stress and adjustment disorders.¹²

Children with special health needs are especially vulnerable to COVID-19. The uncontrolled spread of COVID-19 poses an even greater risk for children with special health needs. Children with certain underlying conditions who contract COVID-19 are more likely to experience severe acute biological effects and to require admission to the hospital or intensive care unit.¹³ This class includes children with Down's syndrome, lung conditions, heart conditions, and weakened immune systems—all conditions suffered by one or more of the Plaintiffs.¹⁴

II. THE AAP'S INTERIM GUIDANCE FOR SCHOOLS

A. Overview of AAP's Research into School Safety During the Pandemic

One of the AAP's chief functions is to provide evidence-based guidance to America's pediatric professionals and public health officials, thereby helping its members and policymakers improve the health of all children. To do so, the AAP

¹² *Id.*

¹³ AAP, *Caring for Children and Youth with Special Health Needs During the COVID-19 Pandemic*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/caring-for-children-and-youth-with-special-health-care-needs-during-the-covid-19-pandemic/> (last updated Sept. 20, 2021).

¹⁴ CDC, *People with Certain Medical Conditions*, <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html> (last updated Aug. 20, 2021).

issues Policy Statements that report the most up-to-date, evidence-based expert consensus on key issues of pediatric practice and public health. These Policy Statements are written by recognized pediatrician experts who undertake a comprehensive review of the medical literature and available data on the topic at hand. They are then peer-reviewed by additional experts across the AAP and approved by the AAP's executive staff and board of directors.

Since the spring of 2020, as the COVID-19 pandemic began to sweep across the country, the AAP's top focus has been supporting practicing pediatricians and public health policymakers in treating COVID-19 and reducing its spread, particularly among children. The AAP has issued Interim Guidance Statements on several topics related to COVID-19 including the use of face masks as an infection control measure;¹⁵ on operating safe schools during the COVID-19 pandemic that foster the overall health of children, adolescents, educators, staff, and communities;¹⁶ and on caring for youth with special health needs during the COVID-19 pandemic.¹⁷ The AAP guidance also includes information on when and

¹⁵ AAP, *Face Masks*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/cloth-face-coverings/> (last updated Aug. 11, 2021).

¹⁶ AAP, *COVID-19 Guidance for Safe Schools and Promotion of In-Person Learning* <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/covid-19-planning-considerations-return-to-in-person-education-in-schools/> (last updated Nov. 2, 2021).

¹⁷ AAP, *Caring for Children and Youth with Special Health Needs*, *supra* note 13.

how pediatricians should test patients for COVID-19;¹⁸ on providing clinical care to patients with COVID-19;¹⁹ on treating post-COVID conditions;²⁰ on how to safely provide routine medical care such as check-ups, screenings, laboratory exams, treatment, and immunizations during the COVID-19 pandemic;²¹ and on supporting the emotional and behavioral health needs of children, adolescents, and families during the COVID-19 pandemic.²² The AAP has repeatedly reviewed and updated these Interim Guidance Statements to ensure that they reflect the best medical understanding and current scientific evidence regarding COVID-19, including its transmission and health effects.

¹⁸ AAP, *COVID-19 Testing Guidance*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/covid-19-testing-guidance/> (last updated July 8, 2021).

¹⁹ AAP, *COVID-19 Interim Guidance*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/> (last updated Aug. 2, 2021).

²⁰ AAP, *Post-COVID-19 Conditions in Children and Adolescents*, *supra* note 11.

²¹ AAP, *Guidance on Providing Pediatric Well-Care During COVID-19*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/guidance-on-providing-pediatric-well-care-during-covid-19/> (last updated Aug. 30, 2021).

²² AAP, *Interim Guidance on Supporting the Emotional and Behavioral Health Needs of Children, Adolescents, and Families During the COVID-19 Pandemic*, <https://www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/interim-guidance-on-supporting-the-emotional-and-behavioral-health-needs-of-children-adolescents-and-families-during-the-covid-19-pandemic/> (last updated July 28, 2021).

B. The Development of the AAP's Interim Guidance for Schools

Beginning early in the pandemic, members of the AAP began receiving questions from families and school boards about how in-person education could be conducted safely during the pandemic. As pediatrician organizations, the AAP and IA AAP recognize and are seriously concerned about the impact on children of being away from in-person learning. This can negatively affect children's cognitive, educational, and social development, as well as children's short and long-term mood, behavior, and mental health. At the same time, as discussed above, the COVID-19 pandemic poses serious risks to children. As a result, the AAP decided to develop Interim Guidance for pediatricians and school boards on considerations regarding safe and healthy schooling and recommendations for measures that can decrease the risk and facilitate in-person learning.

Based on the AAP's expert review of the scientific literature and the guidance outlined by the World Health Organization, United Nations Children's Fund, and Centers for Disease Control and Prevention, along with our members' collective expertise as pediatricians and researchers, the AAP "strongly advocate[s] that all policy considerations for school plans start with the goal of in-person learning."²³ This is because "[s]chools and school-supported programs are

²³ AAP, *COVID-19 Guidance for Safe Schools*, *supra* note 16.

fundamental to child and adolescent development and well-being and provide our children and adolescents with academic instruction; social and emotional skills, safety, reliable nutrition, physical/occupational/speech therapy, mental health services, health services, and opportunities for physical activity, among other benefits.”²⁴ By contrast, “[r]emote learning—which exacerbated existing educational inequities—was detrimental to the educational attainment of students of all ages and worsened the growing mental health crisis among children and adolescents.”²⁵

The initial AAP Interim Guidance, developed in the spring of 2020, was drafted and reviewed by many pediatricians with expertise in a wide variety of disciplines. The drafters reviewed dozens of articles and available data to determine whether and how children could safely attend school during the pandemic.

The result was the AAP Interim Guidances on Face Masks,²⁶ Safe Schools,²⁷ and Children with Special Health Needs.²⁸ These statements were first issued in the spring of 2020 and have been continually reviewed and updated since that time. By

²⁴ *Id.*

²⁵ *Id.*

²⁶ AAP, *Face Masks*, *supra* note 15.

²⁷ AAP, *COVID-19 Guidance for Safe Schools*, *supra* note 16.

²⁸ AAP, *Caring for Children and Youth with Special Health Needs*, *supra* note 13.

this point, the AAP’s experts have reviewed hundreds of articles related to the efficacy and safety of masks, as well as their effects (or lack thereof) on the cognitive, social, and psychological development of children. The following discussion is based principally on the current (summer 2021) iterations of these interim guidance documents.

III. THE AAP RECOMMENDS UNIVERSAL MASKING FOR STUDENTS, STAFF, AND SUPPORT STAFF

Based on our review of the medical literature, the AAP has determined that “[a]t this point in the pandemic, given what we know now about low rates of in-school transmission *when proper prevention measures are used*, together with the availability of effective vaccines for those eligible, . . . the benefits of in-person school outweigh the risks in almost all circumstances.”²⁹ Among the prevention measures we recommend (such as immunization of all eligible individuals and adequate and timely COVID-19 testing), one of the most important is that “[a]ll **students older than 2 years and all school staff should wear face masks at school (unless medical or developmental conditions prohibit use).**”³⁰

The AAP’s strong recommendation of universal masking for students, teachers, and support staff in school has remained consistent from the beginning—

²⁹ AAP, *COVID-19 Guidance for Safe Schools*, *supra* note 16 (emphasis added).

³⁰ *Id.*

because masks are a safe, effective, and critical infection control measure. This conclusion has been consistently reinforced by all relevant data and credible research regarding the transmission and health risks of COVID-19 and the effect of wearing masks on children’s education, health, and development.

After significant analysis, including analysis of the emerging Delta variant, the AAP reaffirmed its recommendation of universal masking in school settings on July 19, 2021. Eight days later, on July 27, 2021, the CDC followed suit, recommending “universal indoor masking for all teachers, staff, students, and visitors to schools, regardless of vaccination status.”³¹

As to children with special health needs, the recommendations regarding masks are the same.³² Schools should “maintain universal masking” and educate teachers and staff in proper mask use.³³ Universal masking reduces community transmission, thus reducing the likelihood that an infected person will come in contact with a child with special health needs, and reduces the likelihood of transmission to the child if an infected person does come into contact with an

³¹ CDC, *Interim Public Health Recommendations for Fully Vaccinated People—Summary of Recent Changes*, <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html> (updated Oct. 15, 2021).

³² AAP, *Caring for Children and Youth with Special Health Needs*, *supra* note 13.

³³ *Id.*

especially vulnerable child.³⁴ These steps should be universal and are separate and apart from any Individual Education Plans that may be necessary for individual children.³⁵ In other words, masking should apply to everyone at the school, not solely to a particular vulnerable child. (Of course, schools should *also* continue to work with parents as necessary to update Individual Education Plans.)

There are several reasons for our (and the CDC's) recommendation of universal masking in school. The most important, the efficacy of masks in reducing transmission, is discussed in the next section. In addition:

- a. the need to protect unvaccinated students from COVID-19 and to reduce transmission;
- b. the lack of systems to monitor vaccine status among students, teachers and staff;
- c. the potential difficulty in monitoring or enforcing mask policies for those who are not vaccinated; absent schools being able to conduct this monitoring, universal masking is the best and most effective strategy to create consistent messages, expectations, enforcement, and compliance without the added burden of needing to monitor vaccination status;
- d. the possibility of low vaccination uptake within the surrounding school community; and
- e. the continued concerns for variants that are more easily spread among children, adolescents, and adults.³⁶

³⁴ *Id.*

³⁵ *Id.*

³⁶ AAP, *COVID-19 Guidance for Safe Schools*, *supra* note 16.

A. Masking Policies Are Highly Effective at Preventing the Spread of COVID-19

The research literature reviewed by the AAP has confirmed that masks are an effective method to measurably reduce the transmission of COVID-19. As the CDC has explained, masks “reduce the emission of virus-laden droplets . . . , which is especially relevant for asymptomatic or presymptomatic infected wearers who feel well and may be unaware of their infectiousness to others, and who are estimated to account for more than 50% of transmissions.” Cloth masks “not only effectively block most large droplets (i.e., 20-30 microns and larger) but they can also block the exhalation of fine droplets.” As a result, “[m]ulti-layer cloth masks can both block up to 50-70% of these fine droplets and particles,” with “[u]pwards of 80% blockage” recorded in some studies. To a slightly lesser extent, masks also “help reduce inhalation of these droplets by the wearer”; multi-layer cloth masks can filter out “nearly 50% of fine particles less than 1 micron.”³⁷

This difference between masks’ ability to block *exhalation* and *inhalation* of viral particles explains why it is so important for mask policies to be universal, as opposed to merely allowing those who want to wear masks to do so. Masks’ primary benefit is as “source control,” a method of preventing infected carriers

³⁷ CDC, *Science Brief: Community Use of Cloth Masks to Control the Spread of SARS-CoV-2*, <https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/masking-science-sars-cov2.html> (last updated May 7, 2021) (citations omitted).

from spreading viral particles as widely and thus limiting the spread of airborne infectious diseases such as COVID-19. As the CDC has explained, “masks are not designed to reduce the particles that the wearer will inhale The purpose of wearing masks is to help reduce the spread of COVID-19 by reducing the spread of the virus through respiratory droplets from asymptomatic individuals.”³⁸ Because wearing a mask can provide only limited protection against contracting COVID-19 if the wearer is in the proximity of one or more unmasked carriers, universal masking policies are needed as source control for COVID-19 carriers (who may be asymptomatic and not know they are shedding viral particles), thereby protecting vulnerable individuals. This, in turn, protects children who otherwise would be incapable of attending school in-person from having to choose between a heightened risk of contracting COVID-19 or being shunted into an inferior remote setting.

As the ABC Science Collaborative, a 13-state initiative coordinated by the Duke Clinical Research Institute at the Duke University School of Medicine, summed it up, “[p]roper masking is *the most effective* mitigation strategy to prevent COVID-19 transmission in schools when vaccination is unavailable or

³⁸ Jaclyn Krah Cichowicz, et al., *Respiratory Protection vs. Source Control—What’s the Difference?*, CDC NIOSH Science Blog (Sept. 8, 2020), <https://blogs.cdc.gov/niosh-science-blog/2020/09/08/source-control/>.

there are insufficient levels of vaccination among students and staff.”³⁹ Numerous studies have shown that increasing the rate of mask-wearing, including through universal mask policies in particular, significantly reduces the spread of COVID-19.⁴⁰ In particular, studies have shown that masking and similar mitigation

³⁹ ABC Science Collaborative, *The ABCs of North Carolina’s Plan*, <https://abcsciencecollaborative.org/the-abc-of-north-carolinas-plan-a/> (last visited Sept. 1, 2021) (emphasis added); see also ABC Science Collaborative, *Final Report for NC School Districts and Charters in Plan A*, at 3 (June 30, 2021), <https://abcsciencecollaborative.org/wp-content/uploads/2021/06/ABCs-Final-Report-June-2021.06-esig-DB-KZ-6-29-21.pdf> (emphasis added).

⁴⁰ See, e.g., Jeremy Howard, et al., *An Evidence Review of Face Masks Against COVID-19*, 118 Proc. of the Nat’l Acad. of Servs. e2014564118 (Jan. 26, 2021), <https://www.pnas.org/content/118/4/e2014564118>; John T. Brooks & Jay C. Butler, *Effectiveness of Mask Wearing to Control Community Spread of SARS-CoV-2*, 325 J. of Am. Med. Ass’n 998 (Feb 10, 2021), <https://jamanetwork.com/journals/jama/fullarticle/2776536>; Heesoo Joo, et al., *Decline in COVID-19 Hospitalization Growth Rates Associated with Statewide Mask Mandates—10 States, March–October 2020*, 70 Morbidity & Mortality Weekly Rep. 212 (Feb. 12, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/mm7006e2.htm>; Derek K. Chu, et al., *Physical Distancing, Face Masks, and Eye Protection to Prevent Person-to-Person Transmission of SARS-CoV-2 and COVID-19: A Systematic Review and Meta-Analysis*, 395 Lancet 1973 (June 1, 2020), [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)31142-9/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31142-9/fulltext); Christopher T. Leffler, et al., *Association of Country-wide Coronavirus Mortality with Demographics, Testing, Lockdowns, and Public Wearing of Masks*, 103 Am. J. Tropical Med. Hygiene 2400 (Oct. 26, 2020), <https://pubmed.ncbi.nlm.nih.gov/33124541/>; Miriam E. Van Dyke, et al., *Trends in County-Level COVID-19 Incidence in Counties With and Without a Mask Mandate—Kansas, June 1–August 23, 2020*. 69 Morbidity & Mortality Weekly Rep. 1777 (Nov. 27, 2020), <https://www.cdc.gov/mmwr/volumes/69/wr/mm6947e2.htm>; Wei Lyu & George L. Wehby, *Community Use of Face Masks and COVID-19: Evidence from a*

measures can limit transmission in schools.⁴¹ And on September 24, the CDC released three new studies conducted during this school year, all of which found that “school districts without a universal masking policy in place were more likely

Natural Experiment of State Mandates in the US, 39 Health Aff. 1419 (June 16, 2020), <https://www.healthaffairs.org/doi/10.1377/hlthaff.2020.00818>.

⁴¹ See, e.g., Patrick Dawson, et al., *Pilot Investigation of SARS-CoV-2 Secondary Transmission in Kindergarten Through Grade 12 Schools Implementing Mitigation Strategies—St. Louis County and City of Springfield, Missouri, December 2020*, 70 Morbidity & Mortality Weekly Rep. 449 (Mar. 26, 2021), https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e4.htm?s_cid=mm7012e4_w; Darria L. Gillespie, et al., *The Experience of 2 Independent Schools With In-Person Learning During the COVID-19 Pandemic*, 91 J. Sch. Health 347 (Mar. 25, 2021), <https://onlinelibrary.wiley.com/doi/10.1111/josh.13008>; Rebecca B. Hershov, et al., *Low SARS-CoV-2 Transmission in Elementary Schools - Salt Lake County, Utah, December 3, 2020-January 31, 2021*, 70 Morbidity & Mortality Weekly Rep. 442 (Mar. 26, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e3.htm>; Amy Falk, et al., *COVID-19 Cases and Transmission in 17 K-12 Schools - Wood County, Wisconsin, August 31-November 29, 2020*, 70 Morbidity & Mortality Weekly Rep. 136 (Jan. 29, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/mm7004e3.htm>; Fiona Russell et al., *COVID-19 in Victorian Schools: An Analysis of Child-Care and School Outbreak Data and Evidence-Based Recommendations for Opening Schools and Keeping Them Open*, Murdoch Children’s Research Inst. & The Univ. of Melb. (Nov. 9, 2020), https://www.mcri.edu.au/sites/default/files/media/documents/covid-19_in_victorian_schools_report.pdf.

to have COVID-19 outbreaks.”⁴² The CDC found that pediatric COVID-19 cases increase *twice* as quickly in schools lacking universal mask policies.⁴³

Multiple courts have relied on the effectiveness of masks in concluding that universal masking may be required in schools under the federal Americans with Disabilities Act and Rehabilitation Act. *See, e.g., S.B. v. Lee*, No. 21-CV-00317, 2021 WL 4346232 (E.D. Tenn. Sept. 24, 2021). Courts have recognized that indoor mask-wearing is “*the* most important of the CDC’s guidelines,” and “the primary way to mitigate the spread of COVID-19.” *Id.* at *15 (internal quotation omitted). Even before the latest CDC studies, “the evidence show[ed] that the absence of a mask mandate is fueling infections . . . with frightening celerity.” *Id.* at

⁴² Press Release, CDC, *Studies Show More COVID-19 Cases in Areas Without School Masking Policies*, <https://www.cdc.gov/media/releases/2021/p0924-schoolmasking.html> (Sept. 24, 2021); *see* Megan Jehn, et al., *Association Between K–12 School Mask Policies and School-Associated COVID-19 Outbreaks—Maricopa and Pima Counties, Arizona, July–August 2021*, 70 *Morbidity & Mortality Weekly Rep.* 39 (Early Release) (Sept. 24, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7039e1-H.pdf>; Samantha E. Budzyn, et al., *Pediatric COVID-19 Cases in Counties With and Without School Mask Requirements—United States, July 1–September 4, 2021*, 70 *Morbidity & Mortality Weekly Rep.* 39 (Early Release) (Sept. 24, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7039e3-H.pdf>; Sharyn E. Parks, et al., *COVID-19–Related School Closures and Learning Modality Changes—United States, August 1–September 17, 2021*, 70 *Morbidity & Mortality Weekly Rep.* (Early Release) (Sept. 24, 2021), <https://www.cdc.gov/mmwr/volumes/70/wr/pdfs/mm7039e2-H.pdf>.

⁴³ Press Release, CDC, *Studies Show More COVID-19 Cases in Areas Without School Masking Policies*, *supra* note 42.

*16. There is “only one conclusion: . . . among the unvaccinated, [the Delta variant] is untamable without community-wide masking inside schools.” *Id.* at *17.

B. The State Overstates the Harmful Effects of Masks

The State, relying on declarations from parents that purport to offer medical opinions, suggests that universal mask policies are harmful and that such policies infringe on the rights of third parties. App. Br. at 44-45. Quite to the contrary, the AAP’s research indicates that masking does no harm, and that public health and public interest weigh in favor of enjoining HF 847.

The State argues that mask policies are harmful to respiratory function, to children’s social or language skills, for children with anxiety, or for children with sensory disorders. Appellant Brief at 45. That is wrong. Masks are safe. While it is appropriate to make exceptions to mask requirements where “medical or developmental conditions prohibit use,” “[f]ace masks can be safely worn by all children 2 years of age and older, including the vast majority of children with underlying health conditions, with rare exception.”⁴⁴ To the extent the State claims that masks are harmful to respiratory function, to children’s social or language skills, or for children with anxiety, these claims lack any scientific basis.⁴⁵

⁴⁴ AAP, *Face Masks*, *supra* note 15.

⁴⁵ The State also claims that children with severe sensory processing issues may be unable to wear a mask. App. Br. at 45. While the AAP and IA AAP cannot

1. Masks Do Not Interfere with Respiratory Function

Masking has no significant effect on respiratory function in the vast majority of cases. Cloth and surgical masks are gas-permeable, which means that carbon dioxide can pass out of the mask and oxygen pass in, without obstruction. Masks do not present a risk of hypercapnia (excess CO₂) or hypoxemia (inadequate oxygen saturation), even among people with lung disease, as proven by studies using pulse oximetry to test changes in end-tidal CO₂ and oxygen saturation.⁴⁶ Even among infants and young children, the use of facial masks is not associated in significant changes in respiratory function.⁴⁷

Claims that masks obstruct breathing are also belied by the decades-long history of mask usage in surgical settings, for immunocompromised individuals

comment on a particular child, some severely autistic children may be able to establish a medical reason for an exemption from a universal mask policy.

⁴⁶ See, e.g., Rajesh Samannan, et al., *Effect of Face Masks on Gas Exchange in Healthy Persons and Patients with Chronic Obstructive Pulmonary Disease*, 18 *Annals of Am. Thoracic Soc’y* 539 (2021), <https://www.atsjournals.org/doi/full/10.1513/AnnalsATS.202007-812RL>; Steven L. Shein, et al., *The Effects of Wearing Facemasks on Oxygenation and Ventilation at Rest and During Physical Activity*, PLOS ONE (Feb. 24, 2021), <https://pubmed.ncbi.nlm.nih.gov/33626065/> (“The risk of pathologic gas exchange impairment with cloth masks and surgical masks is near-zero in the general adult population.”).

⁴⁷ See, e.g., Ricardo Lubrano, et al., *Assessment of Respiratory Function in Infants and Young Children Wearing Face Masks During the COVID-19 Pandemic*, JAMA Network Open (Mar. 2, 2021), <https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2776928>.

(including children) such as chemotherapy patients, and in countries where masks have long been used to prevent spread of illness. For example, surgeons and other medical professionals may wear surgical masks for 6 to 8 hours at a time while performing involved surgery. If masks posed a risk of hypercapnia, hypoxemia, or any other harm, it would have been discovered long ago due to surgeons and attendants fainting or hospitals receiving adult or pediatric patients who were harmed by mask wearing.

2. **There Is No Evidence that Masks Interfere with Cognitive, Social, and Speech Development**

There is currently “no known evidence that use of face masks interferes with speech or language development”⁴⁸ Not being able to see part of a person’s face is not a significant impediment to social and speech development—as the experience of children who are blind from birth confirms. “[V]isually impaired children develop speech and language skills at the same rate as their peers.”⁴⁹ Indeed, being unable to see speakers’ mouths for a portion of the day may help

⁴⁸ AAP, *Do Masks Delay Speech and Language Development?*, <https://healthychildren.org/English/health-issues/conditions/COVID-19/Pages/Do-face-masks-interfere-with-language-development.aspx> (last updated Aug. 26, 2021).

⁴⁹ *Id.*

children use other clues to understand and learn language and non-verbal communication, such as gestures, changes in tone of voice, and the like.⁵⁰

Crucially, the AAP does not recommend that children wear masks 24 hours a day, or that their parents do so. In the home, children's experiences will presumably be largely or entirely maskless, providing ample opportunity for interacting with people without masks.

Some children with preexisting developmental disabilities may have difficulty wearing masks. In many cases, this can be overcome with coaching,⁵¹ although in some cases there could be particular aspects of a child's developmental

⁵⁰ *Id.*; see also Ashley L. Ruba & Seth D. Pollak, *Children's Emotion Inferences from Masked Faces: Implications for Social Interactions During COVID-19*, PLOS ONE (Dec. 23, 2020), <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0243708> (finding that "while there may be some challenges for children incurred by others wearing masks, in combination with other contextual cues, masks are unlikely to dramatically impair children's social interactions in their everyday lives").

⁵¹ See, e.g., Maithri Sivaraman, et al., *Telehealth Mask Wearing Training for Children with Autism During the COVID-19 Pandemic*, 54 J. Applied Behav. Analysis 70 (Nov. 25, 2020), <https://pubmed.ncbi.nlm.nih.gov/33241588/>; Madelynn A. Lillie, et al., *Increasing Passive Compliance to Wearing a Facemask in Children with Autism Spectrum Disorder*, 54 J. Applied Behav. Analysis 582 (Mar. 19, 2021), <https://pubmed.ncbi.nlm.nih.gov/33740281/>; Mary Halbur, et al., *Tolerance of Face Coverings for Children with Autism Spectrum Disorder*, 54 J. Applied Behav. Analysis 600 (Mar. 26, 2021), <https://pubmed.ncbi.nlm.nih.gov/33772777/>.

needs that counsel against using masks in certain situations. Here again, the AAP's guidance recommends allowing for accommodations when necessary.⁵²

3. Mask-Wearing Is Not Linked to Increased Anxiety

Mask-wearing is not linked to emotional or psychological harm, particularly when caregivers promote positive associations around mask-wearing.⁵³ While children can develop secondary anxieties about wearing a mask, this is no different from the possibility of developing secondary anxieties about eating, attending school, or any other activity. The risk of developing secondary anxiety or disordered behavior related to masking may be especially high when parents or community members perpetuate false claims that masks are harmful. But there is

⁵² See AAP, *Face Masks*, *supra* note 15.

⁵³ AAP, *Interim Guidance on Supporting the Emotional and Behavioral Health Needs of Children, Adolescents, and Families During the COVID-19 Pandemic*, *supra* note 22; AAP, *Face Masks*, *supra* note 15 (providing recommendations for “help[ing] my child get used to wearing a mask”); UNICEF, *Supporting your Child’s Mental Health During COVID-19 School Returns*, <https://www.unicef.org/coronavirus/supporting-your-childs-mental-health-during-covid-19-school-return> (last updated Oct. 1, 2021) (“Approach this conversation with empathy, saying that you know she is feeling anxious [about coronavirus], and that it’s healthy to talk about our worries and emotions. Children may also get upset or frustrated if they find it hard to wear masks, especially when running or playing. Try reassuring your children that lots of adults are working hard to help keep your family safe, but emphasize that it’s important we all follow the recommended measures to take care of each other and especially the more vulnerable members of our community.”).

nothing intrinsic about mask-wearing that makes it particularly harmful, whether physically, socially, or emotionally.

4. **Masking Does Not Infringe on the Rights of Third Parties**

The State suggests that schools that elect to implement mask mandates are infringing on third-party rights. App. Br. at 45. But there is no inherent right “to expose the community or the child to communicable disease or the latter to ill health or death.” *Prince v. Massachusetts*, 321 U.S. 158, 166–67 (1944).

Plaintiffs are placed at risk by students not wearing masks. Targeted exceptions for children with medical conditions that preclude wearing masks can present a reasonable accommodation for those children without unduly weakening the protective benefit of widespread mask usage. But allowing individuals without such conditions to exempt themselves vitiates that benefit altogether.

In sum, whatever fears some may have about mask wearing, universal mask policies are the most effective and safe way to reduce the risk that children, including Plaintiffs, will acquire a grave and dangerous illness at school. HF 847 bans such policies. The balance of equities thus weighs heavily in favor of the injunction granted by the District Court.

CONCLUSION

For the foregoing reasons, Amici urge this Court to affirm the district court’s decision.

Respectfully submitted,

/s/Leon Greenfield

CAITLIN L. SLESSOR
SAMUEL E. JONES
SHUTTLEWORTH & INGERSOLL, P.L.C.
115 3rd St. SE, Ste 500
P.O. Box 2107
Cedar Rapids, IA 52406-2107
(319) 365-9461

LEON GREENFIELD
PERRY LANGE
DAVID KATZ
ANNA NOONE
WILMER CUTLER PICKERING
HALE AND DORR LLP
1875 Pennsylvania Avenue NW
Washington, DC 20006
(202) 663-6972

JESSICA ANNE MORTON
JEFFREY B. DUBNER
DEMOCRACY FORWARD FOUNDATION
655 15th St. NW, Ste. 800
Washington DC
(202) 448-9090

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CERTIFICATE OF COMPLIANCE

Pursuant to Fed. R. App. P. 32(g)(1), the undersigned hereby certifies that this brief complies with the type-volume limitation of Fed. R. App. P.

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/s/ Leon Greenfield
LEON GREENFIELD

November 5, 2021

CERTIFICATE OF VIRUS FREE

Pursuant to Local Rule 28A(h)(2) of the Eighth Circuit Rules of Appellate Procedure, the undersigned counsel hereby certifies that this brief has been scanned for computer viruses and is virus-free.

/s/ Leon Greenfield
LEON GREENFIELD

November 5, 2021

CERTIFICATE OF SERVICE

I hereby certify that on this 5th day of November 2021, I electronically filed the foregoing with the Clerk of the Court for the United States Court of Appeals for the Eighth Circuit using the appellate CM/ECF system. Counsel for all parties to the case are registered CM/ECF users and will be served by the appellate CM/ECF system.

/s/ Leon Greenfield
LEON GREENFIELD