Leveraging Our Strength
The 2021-22 School Year

Sharonica Hardin-Bartley, Ph.D., PHR
Town Hall Presentation, U. City Schools Community
270 Elementary students registered for camp at Jackson Park - at capacity
86 Middle school students for camp at Brittany Woods
Credit recovery, Launch offered at High School
Two weeks longer
Project-based
Partner-rich
Focus on literacy, numeracy, engagement
District Awarded $95K grant for additional mental health supports for our students and families

Addresses global, national and state data about rampant adolescent mental health issues during a global pandemic

Trickles down to better student engagement and learning performance
Young and In the Bubble

Students Experiencing the Trauma of the Pandemic and the Trauma of Racism
Health of a Lion

Young and In the Bubble

24% increase in ED use for adolescent behavioral health increased.

21% increase in adolescent psychologist patients ages 13-17.

2015 research found that among all adolescents receiving mental health services, 57% received some school-based mental health services and 35% received all mental health services exclusively from school settings.

63 Number of studies linking loneliness and mental health problems in children and adolescents.

28-31% Adolescents with post-traumatic stress disorder symptoms from isolation or quarantine.

9 YEARS Duration of effects of loneliness on mental health, with the strongest association being depression.
COVID-19 Pandemic Update

Jason G. Newland MD, MEd
@JasonGNewland
May 4, 2021
<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Efficacy</th>
<th>Status</th>
<th>Storage</th>
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<tbody>
<tr>
<td><strong>Pfizer and BioNTech</strong></td>
<td>95% (16 years and older) 100% (12-15 year olds)- <strong>UPDATE</strong> 100% against severe disease and death</td>
<td>EUA</td>
<td>Frozen -80°C to -60°C Updated Frozen -25°C to -15°C Refrigerator for up to 5 days</td>
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<tr>
<td><strong>Moderna and NIH</strong></td>
<td>94.5% 100% against severe disease and death</td>
<td>EUA</td>
<td>Frozen -25°C to -15°C Refrigerator for up to 30 days</td>
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<tr>
<td><strong>AstraZeneca and Oxford</strong></td>
<td>Up to 90% 100% against severe disease and death</td>
<td>Studies ongoing</td>
<td>Refrigerated</td>
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<tr>
<td><strong>Johnson &amp; Johnson and Janssen</strong></td>
<td>72% in US 66% in Latin Am 57% in South Africa 100% against severe disease and death after 28 days</td>
<td>EUA</td>
<td>Refrigerated</td>
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<tr>
<td><strong>Novavax</strong></td>
<td>89.3% 95.6% Original 86% UK variant 60% South African variant 100% against severe disease and death</td>
<td>Interim results</td>
<td>Refrigerated</td>
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Vaccines - Real World

<table>
<thead>
<tr>
<th>COVID-19 immunization status</th>
<th>Person-days</th>
<th>SARS-CoV-2 infections</th>
<th>Incidence rate per 1,000 person-days</th>
<th>Unadjusted vaccine effectiveness*</th>
<th>Adjusted vaccine effectiveness*†</th>
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<tbody>
<tr>
<td>Unvaccinated</td>
<td>116,657</td>
<td>161</td>
<td>1.38</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Partially immunized</td>
<td>41,856</td>
<td>8</td>
<td>0.19</td>
<td>82 (62–91)</td>
<td>80 (59–90)</td>
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<tr>
<td>≥14 days after receiving first dose only⁹</td>
<td>15,868</td>
<td>5</td>
<td>0.32</td>
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<tr>
<td>≥14 days after first dose through receipt of second dose</td>
<td>25,988</td>
<td>3</td>
<td>0.12</td>
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<tr>
<td>Fully immunized</td>
<td>78,902</td>
<td>3</td>
<td>0.04</td>
<td>91 (73–97)</td>
<td>90 (68–97)</td>
</tr>
</tbody>
</table>

3950 health care personnel followed for 13 consecutive weeks

Thomson MG. et al MMWR Mar 29, 2021
Vaccines

- How long is your protection with the vaccine?
- Will we need an annual vaccine due to variants?
- When will all children be eligible to be vaccinated?
COVID-19 and Schools
School Based Transmission-Utah

- 20 public Elementary schools
- Dec 3, 2020-Jan 23, 2021
  - Daily rates- 40-95 per 100,000
- 5 of 728 contacts tested positive (0.78%)
  - 4 students, 1 teacher
- 3 of 101 quarantined contacts positive (3%)
- 3 of 5 households were positive (6 of 8 positive)
- Starting January 4, 2021- only quarantined if case or contact not wearing mask
  - 111 contacts tested after this in place and no positives
- Median classroom distance between students was 3 feet

Hershow R. et al MMWR Mar 19, 2021
Missouri K-12 School Project
K-12 investigation in St. Louis & Springfield, MO

• Our goal is to find the best ways to keep children safe and in school.

• Objective: Examine the impact of school-based mitigation strategies, such as face covering usage, physical distancing, and quarantine policies on transmission of SARS-CoV-2 among students, teachers, and staff after a positive case has been present in the school environment.
K-12 pilot investigation in St. Louis & Springfield, MO

- **December 7-18, 2020**, a pilot of the investigation performed in two school districts in St. Louis and one school district in Springfield to determine feasibility.
  - Community daily rates of COVID-19 were 50-70 per 100,000

- Evaluated K-12 school COVID-19 mitigation strategies and Springfield’s modified quarantine policy

- Project built on what schools were already doing
  - Schools received reports of positive cases among students, teachers, and staff
  - Conducted contact tracing and identified all close contacts at school
  - Notified these close contacts of exposure and quarantine
  - Provided details on the circumstances of the exposure to the close contacts (e.g., location of exposure, distance, masking, etc) to project team

- Project conducted enhanced interviews to understand more of mitigation practices and exposures as well as offered free saliva testing for contacts during quarantine period
### K-12 pilot investigation in St. Louis &

**Overall Results**
- Rare transmission in school (2%)
  - Both transmission events in elementary schools
- Only 27% of schools had > 6 feet
- No transmission in children in modified quarantine
  - Students remained in school if a classroom contact and masked
- No student to teacher transmission
- Transmission occurred in Elementary schools

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<table>
<thead>
<tr>
<th>Characteristic</th>
<th>No.</th>
<th>Cases</th>
<th>Contacts</th>
<th>Total</th>
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<tr>
<td></td>
<td></td>
<td>(n = 37)</td>
<td>(n = 156)</td>
<td>(n = 193)</td>
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<tr>
<td><strong>School location</strong></td>
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<tr>
<td>St. Louis County</td>
<td>14</td>
<td>64</td>
<td>78</td>
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<tr>
<td>City of Springfield</td>
<td>23</td>
<td>92</td>
<td>115</td>
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<td><strong>Age of students, yrs, median (range)</strong></td>
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<tr>
<td>14 (6–18)</td>
<td>11</td>
<td>12</td>
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<tr>
<td>12 (5–18)</td>
<td>7</td>
<td>9</td>
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<td><strong>Age of teachers/staff members, yrs, median (range)</strong></td>
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<td>29 (26–61)</td>
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<td><strong>School status</strong></td>
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<td>Elementary school student (grades K–5)</td>
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<td>65</td>
<td>72</td>
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<td>Middle school student (grades 6–8)</td>
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<td>21</td>
<td>25</td>
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<td>High school student (grades 9–12)</td>
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<td>64</td>
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<tr>
<td>Teacher</td>
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<td>12</td>
<td>19</td>
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<tr>
<td>Staff member</td>
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<td>7</td>
<td>13</td>
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<tr>
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<td>110</td>
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<tr>
<td>Male</td>
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<td>Native Hawaiian or Other Pacific Islander</td>
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<tr>
<td>White</td>
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<tr>
<td>Multiracial</td>
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<td>6</td>
<td>10</td>
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<tr>
<td>Prefer not to say or unknown</td>
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<td>4</td>
<td>7</td>
<td></td>
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</table>
K-12 full investigation in St. Louis & Springfield, MO

Pattonville
10 schools
N=5,800

Rockwood
29 schools
N=21,000

Springfield
45 schools
N=25,000

Greene County B
8-10 schools
N=~5000

University City
6 schools
N=~2,500

Greene County A
<10 schools
N=~2,500

Saint Louis County
standard quarantine

Springfield-Greene County
modified quarantine

Washington University Physicians • St. Louis Children's Hospital

Department of Pediatrics
Division of Infectious Diseases
K-12 full investigation in St. Louis & Springfield, MO

- January 25\textsuperscript{th} - March 19\textsuperscript{th}
- Used lessons from pilot to improve the investigation
- Performed classroom measurements where cases were located
- Conducted additional surveys of the impact of quarantine on students and families
K-12 full investigation in St. Louis & Springfield, MO

• Total- 134 cases, 720 contacts
• 8 possible school transmissions from 7 cases
• University City
  • 7 of 8 cases participated
  • 49 of 63 contacts participated and underwent testing
  • 1 transmission event
School Classroom Measuring

- Goal: To better understand classroom set up and distances between students and teachers and how it contributes to secondary transmission of SARS-CoV-2
- Numerous investigations have alluded to concerns of distance (Georgia school MMWR, Murrey et al. PLOS One), but not standardized investigation has occurred
School Classroom Measuring

- All classrooms where a confirmed case was present including:
  1. Rooms with transmission
  2. Rooms with contacts and no transmission
  3. Rooms without contacts

- Also looked at some basic measures for cafeteria, gyms (PE)
Safe Return to School- North County

Rapid Accelerating Diagnostics for Underserved Populations
Safe Return to School- North County

- Free saliva-based COVID-19 testing to be available for entire school community through end of this school year, all summer, and in 2021-2022 school year
  - Start date should be in about a week
- Will evaluate use of routine weekly testing of students and staff in middle and high schools among 5 school districts in North County
- Listening sessions to understand barriers to in-person school, testing and vaccines
Vaccinations are a Game Changer

Survey: Staff Vaccination Percentages

- Unvaccinated: 14.7%
- Vaccinated: 85.3%
Recent Staff Survey, Vaccines

- 278 respondents
- Mostly direct classroom staff responded
- Follow-up visits to staff that did not respond to survey

Vaccinated

Unvaccinated
Recent Staff Survey, Vaccines

- 277 respondents
- Mostly direct classroom staff responded
- Follow-up visits to staff that did not respond to survey
COVID-19 Vaccinations for ages 12-15

F.D.A. Set to Authorize Pfizer Vaccine for Adolescents by Early Next Week

By Noah Weiland, Apoorva Mandavilli and Sharon LaFraniere
May 3, 2021

WASHINGTON — The Food and Drug Administration is preparing to authorize use of the Pfizer-BioNTech coronavirus vaccine in adolescents 12 to 15 years old by early next week, according to federal officials familiar with the agency’s plans, opening up the U.S. vaccination campaign to millions more people.

● Survey will be sent to all UCHS, BWMS and 6th grade parents today to plan for another student vaccine clinic as soon as possible.
Risk of Transmission in Schools Will Depend on Vaccination Uptake in the Community

- Susceptible
- Infected
- Immune

Low Community Vaccination vs. High Community Vaccination
Comprehensive COVID-19 testing

Further Assurance of Safe, Healthy Schools

- Wash U, in partnership with the National Institutes of Health.
- All district families and staff experiencing COVID-19 symptoms may receive free, easily accessible saliva testing through May 2022.
- May offer weekly testing in Brittany Woods and the high school for all staff and students.
2021-22: Two Learning Options

- In-school 5 days a week
- All-virtual 5 days a week
2021-22 Students Back In School 5 days/week

Our Preferred Option

● **Learning Reimagined:** In-school instruction significantly aligns with our vision and three pillars.
● **Racial Equity:** In-school instruction is more racially equitable.
● **Learning Success:** Most of our students better engage in learning in classrooms.
● **Mental Health:** Students need to be in school buildings for positive relationships, social support, resources and a sense of growth and accomplishment.
● **Scientific Research:** In-school transmission highly limited with masking and other mitigating factors.
● **In-school attendance is highly encouraged.**
2021-22 Virtual Learning Option
Models will depend on the # of students

Current Thinking, but may change:

- Elementary schools: Online learning academy that spans across all four schools with one (possibly more) dedicated UCHS elementary teacher per grade level. Dedicated arts specialists.
- Middle School: Core instruction taught online with SDUC/Brittany teachers. Electives through Launch/MOCAP.
- High School: Will select and offer Launch courses.
<table>
<thead>
<tr>
<th>TITLE I</th>
<th>TITLE II</th>
<th>TITLE III</th>
<th>TITLE IV</th>
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<tbody>
<tr>
<td>Improving the Academic Achievement of the Disadvantaged</td>
<td>Preparing, Training &amp; Recruiting High-Quality Teachers &amp; Principals, &amp; Other School Leaders</td>
<td>Language Instruction for English Language Learners and Immigrant Students</td>
<td>21st Century Schools</td>
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<tr>
<td>Provides supports for all students to meet or exceed state standards</td>
<td>Provides low income and minority students with greater access to effective teachers, principals, and other school leaders</td>
<td>Ensures English Learners including immigrant children attain proficiency in English</td>
<td>- Provides all students with access to a well-rounded education;</td>
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<tr>
<td>Title I Plan <em>(required)</em></td>
<td>Title II Plan <em>(required)</em></td>
<td>Title III EL Plan <em>(required)</em></td>
<td>- Improves school conditions for student learning</td>
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<td>- Improves the use of technology in order to improve the academic achievement and digital literacy of all students</td>
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<td>Title IV Plan <em>(required)</em></td>
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Health of a Lion

**TITLE I**
Improving the Academic Achievement of the Disadvantaged
Teacher Instructional Leaders, Algebra and Mathematics Labs, Parent Involvement

**TITLE II**
Preparing, Training & Recruiting High-Quality Teachers & Principals, & Other School Leaders
Teacher Instructional Leaders, Professional Development

**TITLE III**
Language Instruction for English Language Learners and Immigrant Students
Instructional Materials/Supplies for EL students and teachers, Professional Development, Parent Involvement

**TITLE IV**
21st Century Schools
Culturally Responsive Teaching and Learning, Technology, Dual Credit, Early College Program

Questions, Concerns, Feedback: Rebecca Soriano, Coordinator of State and Federal Programs
rsoriano@ucityschools.org X4049
Next Steps
- includes 2 surveys

- We need to know your plans for vaccinating your 12-15-year-olds and your plans for the next school year
- Survey 1 coming to you today
  - Vaccinating child 12-15
- Survey 2 coming to you on Friday
  - In-person for five days or virtual for five days?
- Once we have your information, we can plan for vaccine clinic and finalize virtual models.
Health of a Lion