



Public Health Recommendations for Implementing COVID-19 Screening Testing in K-12 Schools

Updated August 30, 2021

Overview:

Viral testing strategies in schools are part of a comprehensive prevention approach. Testing should not be used alone, but in combination with other prevention strategies to reduce the risk of SARS-CoV-2 transmission in schools. When schools implement testing combined with prevention strategies, they can detect new cases to prevent outbreaks, reduce the risk of further transmission, and protect students, teachers, and staff from COVID-19.

Testing strategies can be broadly divided into diagnostic testing, which evaluates symptomatic individuals or individuals who have been exposed to COVID-19, and screening testing, in which entire groups or cohorts of asymptomatic cases are tested. All K-12 schools should have a plan to provide or refer students and staff for diagnostic testing and are strongly encouraged to develop a screening testing strategy to identify asymptomatic infections to prevent further transmission in school. The below recommendations are intended to provide guidelines for K-12 schools who implement screening testing for students and staff. All testing strategies in K-12 schools should be developed in consultation with local health departments.

Types of Screening Tests

Viral tests (molecular or antigen) should be used for screening testing in K-12 schools. When considering which test or tests to use for screening testing, schools or their testing partners should choose those that can be reliably supplied and that provide results within 24-48 hours.

Molecular Tests

Molecular tests, which include nucleic acid amplification tests (NAAT) such as RT-PCR, are highly accurate viral tests for the virus that causes COVID-19. Most molecular tests need to be processed in a laboratory where results may take up to 1-3 days, but some molecular tests can be performed at or near the point-of-care with results available in about 15 minutes.

Antigen Tests

Antigen tests are less sensitive than molecular tests, but most carry the advantage of rapid processing at the point-of-care with results available in about 15 minutes. Antigen test results might need confirmation with a molecular test in certain circumstances, such as a negative test in persons with symptoms or a positive test in persons without symptoms. Schools should work with public health agencies to develop a confirmation and referral plan before implementing antigen testing.

Antigen tests can be used for screening testing in schools. The immediacy of results (test results in 15–30 minutes), modest costs, and feasibility of implementation of antigen testing make them a reasonable option for school-based screening testing.

Collection Methods

Different platforms of molecular and antigen tests may rely on different collection methods (e.g., nasal swabs, nasopharyngeal swabs, saliva samples). The feasibility and acceptability of tests that use nasal (anterior nares) swabs make these types of tests more readily implemented in school settings, although tests that use saliva specimens might also be acceptable alternatives for younger children.

Pooled Testing

Schools may consider using [pooled testing](#) as a screening testing strategy for students. Pooled testing involves mixing several samples from different individuals together in a “batch” or pooled sample, then testing the pooled sample with a diagnostic test. This approach increases the number of individuals that can be tested and reduces the need for testing resources. This approach may be particularly helpful in schools using cohorts. Because of the complexities of acting on a positive result, pooled testing is best used in situations where the number of positives is expected to be very low. NJDOH strongly recommends that schools considering pooled testing ensure that the performing laboratory can test to the individual level should the pool be positive BEFORE contracting with that laboratory for screening testing services.

Pooled testing may reduce costs and may be considered for at least weekly screening testing in areas of [low \(green\) and moderate \(yellow\) community transmission](#) and may be particularly helpful in schools using cohorts.

Schools considering pooled testing must ensure that the performing laboratory can test to the individual level within 24-48 hours should the pool be positive.

Home-based testing:

A variety of home-based COVID-19 tests are becoming more widely available. While all involve self-collection of specimens, some test kits require a prescription and others are over-the-counter (OTC). Some collections/testing are observed by a telehealth provider, some involve self-collection but are sent to a laboratory for processing, and others use self-collection and self-testing without any involvement of a healthcare provider. Some home-based tests have been authorized by FDA for screening purposes, others for diagnostic testing.

In K-12 schools, home-based tests:

- May be used for screening testing of asymptomatic staff/students with no known exposure
- May be used to shorten quarantine from 10 to 7 days after travel
- **Should not** be used to determine whether symptomatic individuals may return to school (unless performed with direct healthcare oversight or performed in a testing laboratory)
- **Should not** be used to shorten quarantine from 10 to 7 days after exposure to a COVID-19 case unless performed with direct healthcare oversight or performed in a testing laboratory

More information on self-testing is available at <https://www.cdc.gov/coronavirus/2019-ncov/testing/self-testing.html>.

Requirements for Screening Testing:

Screening testing strategies should be developed in conjunction with public health agencies and should be part of a comprehensive prevention approach.

- Mechanism to obtain parental consent for minor students and assent/consent from the students themselves.
 - Testing should be offered on a voluntary basis.
 - School-based testing should NEVER be conducted without consent from a parent or legal guardian (for minor students) or from the individual him or herself (for adults).
- It is not recommended to retest individuals who have tested positive and do not have symptoms for COVID-19 for up to 3 months from their last positive test.
- All screening tests should be authorized by FDA for the specific intended use (i.e., screening, pooling), and a mechanism in place for test orders by a licensed health care provider.
- Clinical Laboratory Improvement Amendments (CLIA) certificate of waiver requirements to perform school-based testing with [EUA authorized tests](#). School nurses may perform COVID-19 point-of-care testing if they receive a CLIA certificate of waiver or are functioning under a CLIA certificate of waiver of another organization.
- Mechanism to report all testing results to public health authorities as required by the NJDOH.
- Physical space to conduct testing safely and privately (i.e., gymnasium, auditorium).
- Access to and training on the proper use of [personal protective equipment \(PPE\) for persons conducting screening testing](#).
- Ability to maintain confidentiality of results and protect student privacy.
- Plans for ensuring access to confirmatory testing when needed (asymptomatic persons who receive a positive test result). See NJDOH recommendations below.

Not every school will have sufficient staff, resources, or training to conduct testing. However, the US Department of Health and Human Services (HHS) and CDC have made available a [grant program](#) to assist schools with screening testing. Participation in this program is voluntary but strongly encouraged. More information can be found in this [Memo to Schools](#). LEAs and nonpublic schools interested in participating in this program can obtain additional information by contacting their local health department.

Interpreting/Reporting Screening Test Results:

All test results should be reported to public health agencies. In addition, individuals who test positive by any testing modality should follow [NJDOH exclusion guidance](#). In all circumstances, after receiving the results of a positive test:

- The individual should be immediately excluded from school.
- School-based close contacts should be identified and excluded from school for 10 days (regional risk green/yellow) or 14 days (regional risk orange).

Individuals who test positive by **rapid antigen test** and who are asymptomatic should be additionally referred for confirmatory testing by a **molecular test** (for example, RT-PCR) with specimen collection within 2 days of initial specimen. Individuals who do not have confirmatory testing must follow [COVID-19 Exclusion Criteria](#).

Pooled testing

Schools that elect to use pooled testing for screening should follow [CDC recommendations](#) for implementation and interpretation. In general, the results of entire pools should NOT be reported to public health agencies. Instead:

- If a pool tests negative, each individual within the pool should be reported to public health agencies as negative.
- If a pool tests positive, the diagnostic laboratory must perform **diagnostic testing of every individual in the pool** and report individual test results to public health agencies.

Reporting

All SARS-CoV-2 test results must be reported to public health agencies. While other reporting mechanisms may become available, currently any facility that conducts school-based testing will need to have access to the NJDOH [Communicable Disease Reporting and Surveillance System](#) (CDRSS) to report test results. The Quick Start Option for COVID-19 Training can be found on the CDRSS home page (available at: <https://cdrs.doh.state.nj.us/cdrss/login/loginPage/>).

While schools are waiting for access to CDRSS, results can be [reported to the local health department](#).

In addition to reporting individual test results, schools who are conducting screening testing need to report aggregate weekly data to NJDOH through the CDRSS School Surveillance Module. For schools who are not currently reporting weekly surveillance data into CDRSS, go to the [CDRSS home page](#) under "System Announcements" scroll down to the K-12 SIC Module Enrollment and Training. Watch the SIC module training video and complete the [User Agreement](#) and return to CDS.CO.V.RPT@doh.nj.gov.

School nurses/staff who are conducting school-based testing do not need to manually enter negative results into CDRSS as long as weekly aggregate counts are reported; however, if testing is performed in a laboratory or if the school contracts for testing services, positive and negative results must be electronically reported by the laboratory/contractor to NJDOH.

Screening Testing Strategies

Screening testing can be used to help evaluate and adjust prevention strategies and provide added protection for schools that are not able to provide optimal physical distance between students.

Participants in Screening Testing Program

Currently, CDC recommends that persons who are fully vaccinated do not need to participate in routine screening testing programs unless it would be overly difficult for the school to implement a screening testing program based on vaccination status. In addition, persons who recently recovered from COVID-19 infection (positive viral test in past 3 months) should not be tested as part of routine screening testing programs, since test results may remain positive for up to 3 months, even though the individual is no longer infectious.

Screening testing more than once a week might be more effective at interrupting transmission but the feasibility of increased testing in schools should be considered. Schools may consider multiple screening testing strategies, for example, testing a random sample of at least 10% of students who are not fully vaccinated, or conducting **pooled testing** of cohorts.

Screening Testing Matrix Based on COVID-19 Activity Level (CALI)¹

Low	Moderate	High	Very High
Teachers and staff: Screening testing of teachers and staff who are not fully vaccinated at least once per week ²			
Students: Screening testing for students may not be necessary ³	Students: Screening testing of students who are not fully vaccinated or random samples of students ⁴ at least once per week		
Sports⁵ and high risk extracurricular⁶ activities: Testing of students and staff who are not fully vaccinated participating in all sports and higher-risk extracurricular activities at least once per week		Higher risk sports and extracurricular activities⁵: Testing of students and staff who are not fully vaccinated participating in these activities twice per week Lower risk sports: Testing of students and staff who are not fully vaccinated participating in these activities at least once per week	

¹ Schools must comply with [Executive Order 253](#)

² Excludes persons who recently recovered from COVID-19 (i.e., tested positive in past 3 months) and as outlined in [Executive Order 253](#).

³ Unless participating in sports or high-risk extracurricular activities.

⁴ Schools may consider testing a random sample of at least 10% of students for screening testing in areas of moderate or higher community transmission. Students participating in sports should only follow those testing guidelines.

⁵ High-risk sports typically include those that cannot be done outdoors or with masks, or that involve close face to face contact. The NCAA has developed a risk stratification for sports that can provide guidance in implementation of the testing recommendations outlined above. See https://ncaaorg.s3.amazonaws.com/ssi/COVID/SSI_ResocializationDevelopingStandardsSecondEdition.pdf

⁶ High-risk extracurricular activities are those in which increased exhalation occurs, such as activities that involve singing, shouting, band, or exercise, especially when conducted indoors without a mask.

Resources

- [COVID-19 Public Health Recommendations for Local Health Departments for K-12 Schools](#)
- [New Jersey Executive Order 253](#)
- [CDC Guidance for COVID-19 Prevention in K-12 Schools](#)
- [Rockefeller Foundation - COVID-19 Testing in K-12 Settings: A Playbook for Educators and Leaders](#)
- [Shah Family Foundation COVID-19 Educational Testing Toolkit](#)