Considerations for school-related public health measures in the context of COVID-19

Annex to Considerations in adjusting public health and social measures in the context of COVID-19



Background

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In response to COVID-19, countries around the world have implemented several public health and social measures (PHSM), such as movement restrictions, closure of schools and businesses, and international travel restrictions. As the local epidemiology of the disease changes, countries will adjust (i.e. loosen or reinstate) these measures according to the intensity of transmission. WHO has issued guidance on adjusting PHSM while managing the risk of resurgence of cases. A series of annexes has been developed to help guide countries through adjusting various public health measures in different contexts. This annex provides considerations for decision-makers and educators on how or when to reopen or close schools in the context of COVID-19. These decisions have important implications for children, parents or caregivers, teachers and other staff, communities, and society at large. This document was drafted based a review of available literature, discussion with experts, regional partners and country examples.

What should be considered when deciding to close or reopen schools?

Deciding to close, partially close or reopen schools should be guided by a risk-based approach to maximize the educational and health benefit for students, teachers, staff, and the wider community, and help prevent a new outbreak of COVID-19 in the community.³⁴ WHO, UNICEF and IFRC have issued guidance on the prevention and control of COVID-19 in schools.³ Factors to consider in a general health risk assessment include epidemiological factors, health system and public health capacities,² community engagement and government capacity to sustain social and economic support to the most vulnerable. In a recent framework for reopening schools, partners highlight six key dimensions to consider when planning: policy, financing, safe operations, learning, reaching the most marginalized and wellbeing/protection.⁴

National authorities can facilitate a risk-based approach at the local level by offering standard operating procedures or checklists for schools, based on local epidemiology and conditions.

Decision makers should consider the following when deciding on whether to open or close schools:

- Current understanding about COVID-19 transmission and severity in children
- Local situation and epidemiology of COVID-19 where the school(s) are located
- School setting and ability to maintain COVID-19 prevention and control measures

Additional factors to consider in deciding how or when to partially close or reopen schools include assessing what harm might occur due to school closure (e.g. risk of non-return to school, widening disparity in educational attainment, limited access to meals, domestic violence aggravated by economic uncertainties etc.), and the need to maintain schools at least partially open for children whose caregivers are 'key workers' for the country.

What we know about COVID-19 and children

Data from individual countries, and a recent review of COVID-19 in children suggest that children are less often reported as cases than adults, and that the infection generally causes mild disease.⁵ Serious illness due to COVID-19 is seen infrequently in children, although there have been rare cases of critical illness.⁶ The role of children in transmission remains unclear⁷ and additional data is needed, including from age-stratified sero-epidemiologic surveys.⁸ To date, there have been few educational institutions involved in COVID-19 outbreaks, but from these studies, it appears that disease transmission was primarily related to social events linked to school or university life rather than transmission within classrooms. These studies also suggest that the introduction of the virus was likely by an adult member of staff.⁷⁹ Studies employing modelled data highlight the importance of local epidemiology in decision-making, but also of not relying on school measures as stand-alone interventions.¹ WHO will update this document when more information becomes available and as lessons are being learned from various countries on reopening schools.

The local situation and epidemiology of COVID-19

The local situation and epidemiology of COVID-19 may vary from one place to another within a country. Discussions should be guided by the following questions:

• What impact is the current epidemiologic situation having on movement in the community? Are movement restrictions in place, is safe transport available?

- What is the trend in COVID-19 cases in the area? Is local information on disease trends accessible and reliable?
- Are public health officials in the community able to quickly detect and respond to new cases, to avert new outbreaks?
- Is the school able to maintain appropriate collaboration and coordination with local public health authorities (e.g. provide public health officers with information needed to trace contacts if a case or outbreak occurs in the school)?
- What is the number of staff at risk for severe disease (age-groups and underlying conditions)?
- What is the number of children with underlying conditions or special needs?

School setting and ability to maintain COVID-19 prevention and control measures

Policy, practice and infrastructure

When schools are fully or partially open, COVID-19 prevention and control strategies² should be maintained. Risk assessment could be guided by the considerations below, while recommended actions and requirements are outlined in the following section:

School resources and infrastructure

- Does the school have policies and resources in place to ensure appropriate hand and respiratory hygiene, distancing and limiting crowding?
- Is it possible to access rooms large enough for desk-spacing? Can the school's infrastructure be extended, even temporarily, to provide the space that is needed?
- Does the school have access to adequate materials and supplies to help prevent transmission, such as well-stocked handwashing stations?
- Is it possible to reduce class sizes, or alternate the use of facilities daily or weekly by class groups?
- Does the school have access to a nurse to facilitate the care of sick children?

Policies for educators and school staff

- Are policies and procedures in place for the safety of all school personnel, including considerations to protect high-risk individuals (older persons, persons with underlying medical conditions)?
- Does the school have the capacity to train school staff on safe school operations?
- Should/could some flexible or partial tele-schooling approaches be implemented or maintained?
- Does the school have sufficient teachers' capacity to support changes to school timetabling bearing in mind that such changes will also affect other staff?
- Depending on local context, is it feasible to ask teachers who are at higher risk of severe illness from COVID-19, to support distance teaching instead of in-person teaching?

Behavioural aspects

In supporting the school environment, consider the age and experiences of students. Younger children may find it more difficult to adhere to physical distancing of at least 1 metre. For students in higher grades, requirements such as exams should be considered. To assess the school's readiness for safe adjustments, consider the following:

Reconfiguring school resources

- Are schools able to adapt classrooms to help students comply with recommended measures?
- How will playtime/outdoor activities during recreation (where they exist) be adjusted to ensure adherence to recommended measures?
- Are students, parents and teachers willing and well equipped to engage with tele-schooling or similar distance learning strategies, or return to school based on new measures?

Age-based considerations

 Will there be enough supervision for students of different ages to ensure adherence to recommended measures, including during recreational times and breaks between classes?

- Based on local context and cultural norms, which age groups are considered better suited or higher priority for teleschooling and which age groups most need face-to-face instruction? Are provisions in place to ensure safety/protection in online, virtual spaces?
- Can post-secondary institutions assess the safety (and potential closure or cancelation) of school-hosted venues, events and gatherings and offer the possibility of maintaining physical distancing, including in social situations outside the classroom (e.g. trips, get-togethers)?

To enable behaviour change, health education and training sessions may need to be offered to personnel. Visual and verbal cues and reminders (e.g. posters) can be provided to encourage students to maintain desired behaviours.

Safety and Security

School closure or re-opening may affect the safety and security of students. Questions to consider include the following:

- Are children receiving a meal at school? Is there food security at home?
- Are there enough teachers or staff to run the school? Are there policies in place for teacher and staff safety and well-being? Are they well equipped for preventative and control measures?
- Are child protection services operational to respond to safety concerns for students at home or at school?
- Can staff, parents and communities work together to develop local guidance for schools?
- Are contingency plans in place to counteract harms of educational disruption for the most vulnerable children?

Recommended measures for school reopening

The following strategies and adaptations should be in place wherever possible:

Hygiene and daily practices at school

Hygiene and environmental cleaning to limit exposure:

- Educate everyone in the school about COVID-19 prevention, this includes appropriate and frequent hand hygiene, respiratory hygiene, mask use if mandated, symptoms of COVID-19 and what to do if you feel sick. Non-contact greetings should also be advised. Offer weekly updates on these as the pandemic evolves.
- Create a schedule for frequent hand hygiene, especially for young children, and provide sufficient alcohol-based rub or soap and clean water at school entrances and throughout the school.
- Schedule regular cleaning of the school environment daily, including toilets, with water and soap/detergent and disinfectant¹. Clean and disinfect frequently touched surfaces such as door handles, desks, toys, supplies, light switches, doorframes, play equipment, teaching aids used by children, and covers of books.
- Assess what can be done to limit risk of exposure, or direct physical contact, in physical education classes, sports or other physical activities and play in playgrounds, wet areas and changing rooms.
- Increase frequency of cleaning in gym and sports facilities and changing rooms, provide hand hygiene stations at entrances and exits, establish one-way circulation of athletes through the facilities and limit the number of persons allowed in the locker room at one time.
- Put in place respiratory and hand hygiene and physical distancing measures in transportation such as **school buses**, and tips for students on safe commute to and from school, including those using public transport. Only 1 child per seat and at least 1 metre apart in school buses, if possible. This may lead to a need to increase the number of school buses per school. If possible, windows of the bus should be kept open.
- Develop a school policy on **wearing a mask or a face covering** in line with **national or local guidance**. If a child or school staff is sick, she/he should not come to school. Provide **sufficient medical masks** for those who need it, such as school nurses and children with symptoms.

Screening and management of sick students, teachers and other school staff

• Enforce the policy of "staying at home if unwell" for students, teachers or school staff with symptoms. If possible, connect with local organizations to provide home care support and ensure communication between home and school.

¹ WHO recommends 70% ethyl alcohol to disinfect small surface areas and equipment, or sodium hypochlorite 0.1% for disinfecting surfaces¹⁰

- Create a **checklist** for parents/students /staff to decide whether students /staff can go to school, and with due consideration for the local epidemiology of COVID-19. The checklist could include:
 - o underlying medical conditions and vulnerabilities, to protect the student/staff;
 - o recent illness or symptoms suggestive of COVID-19, to prevent spread to others;
 - o special circumstances in the home environment, to tailor support as needed;
 - o special considerations regarding school transport as needed.
- Waive the requirement for a doctor's note to excuse absences when there is community transmission of COVID-19.
- Consider daily screening for body temperature, and history of fever or feeling feverish in the previous 24 hours, on entry into the building for all staff, students and visitors to identify persons who are sick.
- Ensure students who have been in contact with a COVID-19 case stay home for 14 days. The school officials should notify public health authorities in case of a positive COVID-19 case.
- Establish procedures for students or staff who have symptoms of COVID-19 or are feeling unwell in any way to be sent home or isolated from others.

Communication with parents and students

- Inform parents about the measures the school is putting in place and ask for cooperation to report any cases of COVID-19 that occur in the household. If someone in the household is suspected to have COVID-19, keep the child home and inform the school.
- Explain to the students the reason for school-related measures, including discussing the scientific considerations and highlighting the help they can get through schools (e.g. psychosocial support).

Additional school-related measures

- Ensure that school entry **immunization checks are** in place. Check **vaccination status** for outbreak-prone vaccine-preventable diseases (e.g. measles) and remind parents of the importance of ensuring their children are up to date with all eligible vaccinations. For school-based immunization programmes, ensure there a plan for catch-up vaccination if needed.
- Boarding schools and other specialized institutions will need to extend these considerations to residential facilities, lecture halls, laboratories and other learning facilities for the all-round benefit and safety of students and staff.

Physical distancing and tele-schooling

Physical distancing at school

- Maintain a distance of at least 1 metre² between everyone present at school
- Increase desk spacing (at least 1 metre between desks), stagger recesses/breaks and lunchbreaks (if difficult, one alternative is to have lunch at desk)
- **Limit mixing of classes** for school and after-school activities. For example, students in a class will stay in one classroom throughout the day, while teachers move between classrooms; or classes could use different entrances, if available, or establish an order for each class to enter and leave the building/classroom
- Expand high-school timetable, with some students and teachers attending in the morning, others in the afternoon, others in the evening
- Consider increasing the number of teachers, if possible, to allow for fewer students per classroom (if space is available)
- Advise against crowding during school pick-up or day care, and if possible avoid pick up by older family or community members (e.g. grandparents)
- Minimize shared break times, i.e. alternate when and where classes take lunch
- Discuss how to manage physical education and sports lessons
- Move lessons outdoors or ventilate rooms as much as possible
- Create awareness to ensure the students do not gather and socialize when leaving the school and in their free time

² Most studies have used one metre as a benchmark for projection of respiratory droplets. One metre is equivalent to 3 feet and 3.37 inches. WHO is monitoring ongoing research on risks of COVID-19 transmission.

Tele-schooling and distance learning

- Initiate or continue **tele-schooling.** or similar method, by blended methods where necessary and possible (e.g. some student groups could take online classes, learn from home through homework assignments, blogs, engage in at home physical activity).
- If tele-schooling is not possible, invite students to **take text-books home** or arrange to **deliver** assignments. Consider **radio or television broadcasts** of lessons, arrange a **buddy system** for homework with older siblings at home, or with friends by telephone
- Ensure age-appropriate and **frequent follow-up and support** for children out of school and avoid penalizing or stigmatizing such students

Monitoring of schools after re-opening

As protective school measures are applied, it is important to monitor a range of factors such as:

- Effectiveness of tele-schooling interventions:
 - o How well has the school been able to develop tele-schooling strategies?
 - O What proportion of children were reached?
 - What is the feedback from students, parents and teachers?
- The effects of policies and measures on educational objectives and learning outcomes.
- The effects of policies and measures on health and well-being of children, siblings, staff, parents and other family members.
- The trend in school drop out after lifting the restrictions.

Inclusive and early collaboration between the school and the community is needed to develop and implement necessary measures. It will be important to maintain flexibility and modify approaches as needed, and to ensure learning and sharing of good practices. Completely closing schools without putting in place context-appropriate distance learning methods, wherever possible, and adaptive strategies to reduce potential harms may not be the best or only solution and should only be considered when alternatives are not available.

The World Health Organization offers these considerations to support policy development and help decision-makers, educational institutions and caregivers in this unique and challenging period, as they seek to do what is best for their children, students and community.

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Further useful resources:

UNESCO. UNESCO COVID 19 Education Response; Education Sector issue notes - Issue note n° 7.1 – April 2020 (https://unesdoc.unesco.org/ark:/48223/pf0000373275).

World Health Organization. Non-pharmaceutical public health measures for mitigating the risk and impact of epidemic and pandemic influenza. Geneva, October 2019 (https://www.who.int/influenza/publications/public_health_measures/publication/en/).

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WHO continues to monitor the situation closely for any changes that may affect this interim guidance. Should any factors change, WHO will issue a further update. Otherwise, this interim guidance document will expire 2 years after the date of publication.

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