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Effects of School-Based Preventive Measures on COVID-19 Incidence, Hong Kong, 2022

Appendix

Additional Methods

Data Extraction

School-reported data were extracted from daily press conferences during May 16—September 23, 2022. After September 23, 2022, daily press conference were canceled, and we extracted the relevant information from daily press releases. Age-specific case data were obtained from the Hong Kong Centre of Health Protection; data were available until November 22, 2022. Numbers of cases (without age information) were obtained from daily press releases until November 22, 2022. We obtained population incidence denominators for age groups from the Census and Statistics department of the Hong Kong Special Administrative Region government.

Poisson Generalized Additive Regression Model

To determine the effects of school closure on COVID-19 incidence rates in school-age children, we fitted a Poisson generalized additive regression model adjusting for time trend of cases. Denoting case numbers at week t for age group i (1 = adults \geq 18 years of age, 2 = kindergarten students 2–5 years of age, 3 = primary students 6–11 years of age, 4 = secondary students 12–17 years of age) as X_{it} , population size of the age group t as t0, and time period as t1 (1 = baseline period, 2 = school closure, 3 = summer holiday), we have

$$\begin{aligned} \log(X_{it}) &= \log(P_{it}) + \beta_{11} \times I(i=2) + \beta_{12} \times I(i=3) + \beta_{14} \times I(i=4) \\ &+ \beta_{21} \times I(i=2\&t \in T_2) + \beta_{22} \times I(i=3\&t \in T_2) + \beta_{23} \times I(i=4\&t \in T_2) \\ &+ \beta_{31} \times I(i=2\&t \in T_3) + \beta_{32} \times I(i=3\&t \in T_3) + \beta_{33} \times I(i=4\&t \in T_3). \end{aligned}$$

The incidence rate ratio for kindergarten students is indicated by exponential of β_{11} , $\exp(\beta_{11})$, primary students by $\exp(\beta_{12})$, and secondary students by $\exp(\beta_{13})$ compared with adults in the baseline period. Compared with adults in school closure, the incidence rate ratio for kindergarten students is indicated by $\exp(\beta_{21})$, primary students by $\exp(\beta_{22})$, and secondary students by $\exp(\beta_{23})$. Compared with adults in summery holiday, the incidence rate ratio for kindergarten students is indicated by $\exp(\beta_{31})$, primary students by $\exp(\beta_{32})$, and secondary students by $\exp(\beta_{33})$.

Appendix Table 1. School-based control measures since 2022

| Action date | Action | Announcement | Sources |
|-------------|---|--------------|--|
| 2022 Jan 14 | Primary schools, kindergartens, and kindergarten/child care centers should suspend face-to-face classes and on-campus activities by this Friday until their Lunar New Year holidays end | 2022 Jan 11 | https://www.news.gov.hk/eng/2022/01/20220111/2 0220111_104753_827.html?type=category&name= covid19&tl=t |
| 2022 Jan 24 | All secondary schools should suspend face-to-face classes and all on-campus activities on or before January 24 until their Chinese New Year holidays. | 2022 Jan 20 | https://www.news.gov.hk/eng/2022/01/20220120/2 0220120_122040_196.html?type = category&name = covid19&tl = t |
| 2022 Feb 8 | Schools across the city will continue to suspend face-to-face classes until February 21, 2022 | 2022 Jan 27 | https://www.news.gov.hk/eng/2022/01/20220127/2 0220127_184401_063.html?type = category&name = covid19&tl = t |
| 2022 Feb 14 | All kindergartens, primary schools, secondary schools and tutorial schools will continue the suspension of face-to-face classes and on-campus activities until March 6. | 2022 Feb 14 | https://www.news.gov.hk/eng/2022/02/20220214/2 0220214_174151_936.html?type = category&name = covid19&tl = t |
| 2022 Mar 1 | Summer holiday start from March or April | 2022 Feb 22 | https://www.news.gov.hk/chi/2022/02/20220222/20 220222_193732_757.html?type = category&name = covid19&tl = t |
| 2022 Apr 19 | Chief Executive Carrie Lam today announced that primary schools, international schools, and kindergartens may resume face-to-face classes as early as April 19 after the Easter holidays. Secondary schools may restart in-person classes after the examinations of the 2022 Hong Kong Diploma of Secondary Education Examination core subjects are completed. | 2022 Mar 21 | https://www.news.gov.hk/eng/2022/03/20220321/2 0220321_124717_054.html?type=category&name= covid19&tl=t |
| 2022 Apr 19 | The Government today announced that schools will resume face-to-face classes in phases after the Easter holidays. All school staff, teachers, and students are required to conduct COVID-19 rapid antigen tests (RATs) daily and only those who have obtained a negative result will be allowed to enter the schools. | 2022 Apr 11 | https://www.news.gov.hk/eng/2022/04/20220411/2 0220411_120620_439.html?type=category&name= covid19&tl=t |
| 2022 May 19 | The Education Bureau announced today the updated arrangements concerning antiepidemic measures in schools; it will relax conditions for students to participate in maskwearing activities on a half-day basis. Such activities include speech days, parents' days, open days, and campus visits. However, students must still follow antiepidemic rules while attending the events. | 2022 May 19 | https://www.news.gov.hk/eng/2022/05/20220519/2 0220519_174157_317.html?type=category&name= covid19&tl=t |
| 2022 Jun 17 | All teachers, school staff, and students have to complete an RAT every school day and obtain a negative test result before returning to school for work or lessons. | 2022 Jun 17 | https://www.news.gov.hk/eng/2022/06/20220617/2 0220617_150957_812.html?type = category&name = covid19&tl = t |

Appendix Table 2. Vaccination requirements for entering schools during 2022*

| Date | Focus | Age, y | School type | Action | Remarks | Sources |
|-------------|--------------------|----------------|---|--|---|--|
| 2022 Feb 24 | Staff | <u>></u> 18 | Kindergartens, primary and secondary schools, tutorial schools | From February 24, apart from those who are exempted, all teaching and nonteaching staff, people providing on-campus services and school visitors will be required to present vaccination records of at least the first COVID-19 vaccine dose before their entry into school premises. The above measures will still be enforced during suspension of face-to-face classes. For those exempted personnel, such as those who are unfit for vaccination due to health reasons, they are still required to conduct COVID-19 tests once every three days. | Announced on 2022 Jan 20. The arrangement does not apply to students. | https://www.info.gov.hk/gia/g eneral/202202/14/P2022021 400639.htm; https://www.news.gov.hk/eng /2022/01/20220120/2022012 0_194630_073.html |
| 2022 Feb 24 | Staff, students | <u>></u> 12 | NA | From February 24, persons ≥12 years of age with ≥1 COVID-19 vaccination dose will be permitted to enter specified premises. | Announced on 2022 Jan 21. | https://www.news.gov.hk/eng /2022/02/20220221/2022022 1_153338_846.html |

| Date | Focus | Age, y | School type | Action | Remarks | Sources |
|-----------------------------|----------|----------------|---|---|---|---|
| 2022 Apr 21 | Staff | <u>></u> 18 | Kindergartens, primary and secondary schools, tutorial schools | Teachers and school staff directly employed by schools who have received only one dose should receive the second dose before April 21. | Announced on 2022 Jan 20. The arrangement does not apply to students. | https://www.news.gov.hk/eng /2022/01/20220120/2022012 0_194630_073.html |
| 2022 Apr 30 | Students | 12–17 | NA | During the second stage from April 30 to June 29, if persons 12–17 years of age have received their first dose of COVID-19 vaccine for <6 months, their vaccine pass remains valid. However, if they have received their first dose <a>\second 6 months ago, they will need to receive a second dose to continue to use the vaccine pass. | Announced on 2022 Mar 4. | https://www.news.gov.hk/eng /2022/03/20220304/2022030 4_210043_224.html |
| 2022 Jun 30 | Students | 12–17 | NA | Starting from the third stage from June 30, if persons 12–17 years of age have received their second dose of COVID-19 vaccine <9 months ago, they can still use the Vaccine Pass. If they have received their second dose for >9 months ago, they are required to receive a third dose to continue to use the vaccine pass. | Announced on 2022 Mar 4. | https://www.news.gov.hk/eng /2022/03/20220304/2022030 4_210043_224.html |
| 2022 Aug 5 | NA | NA | NA | All teachers and school staff directly employed by the schools to meet the requirements of the Vaccine Pass, and ≥90% of the total number of students eligible for vaccination to receive 2 doses of vaccine >14 d apart. | | https://www.news.gov.hk/eng /2022/08/20220805/2022080 5_164616_433.html |
| 2022 Aug 5 | Students | NA | NA | Secondary or primary school students who have received two jab doses >14 d apart may attend nonacademic extracurricular activities at school after lessons or during the other half-day of a school day. | | https://www.news.gov.hk/eng /2022/08/20220805/2022080 5_164616_433.html |
| 2022 Sep 30 | Students | 5–11 | NA | Starting from September 30, children 5–11 years of age are required to have received at least the first dose within 3 months to comply with the vaccination requirements under the Vaccine Pass for entering specified premises (Note). If they received their first dose 3 months ago or earlier, they are required to receive the second dose to continue to be eligible to use the Vaccine Pass. | Announced on 2022 Sep 8 | https://www.info.gov.hk/gia/g eneral/202209/08/P2022090 800481.htm?fontSize = 1 |
| 2022 Sep 30 | NA | <u>≥</u> 12 | NA | Starting from September 30, the grace period for persons ≥12 years of age to receive the third dose after the second dose will be shortened from the original 6 months to 5 months. For those who had received the second dose within 5 months, their Vaccine Pass is still valid, but they must receive the third dose within 5 months after receiving the second dose (instead of the original 6 months) to continue using the Vaccine Pass afterwards. | Announced on 2022 Sep 8 | https://www.info.gov.hk/gia/g eneral/202209/08/P2022090 800481.htm?fontSize = 1 |
| 2022 Nov 30 | Students | 5–11 | NA | Starting from November 30, the vaccination requirement for all children 5–11 years of age under the Vaccine Pass will have to receive the second dose. | Announced on 2022 Sep 8 | https://www.info.gov.hk/gia/g eneral/202209/08/P2022090 800481.htm?fontSize = 1 |
| 2022 Nov 30 *NA_not applica | NA | <u>></u> 12 | NA | Starting from November 30, persons ≥12 years of age are required to have received the third dose to meet the vaccination requirements under the Vaccine Pass. | Announced on 2022 Sep 8 | https://www.info.gov.hk/gia/g eneral/202209/08/P2022090 800481.htm?fontSize = 1 |

^{*}NA, not applicable.

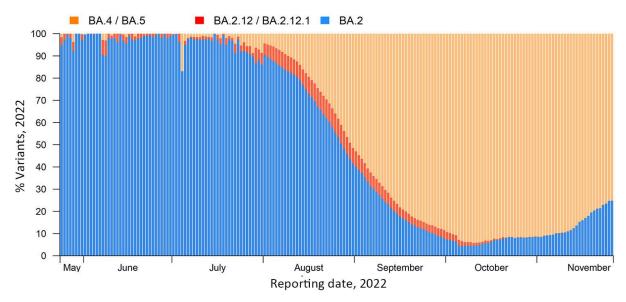
Appendix Table 3. Summary of rapid tests available in Hong Kong and their sensitivity and specificity provided by manufacturer*

| Brand name | Manufacturer | nd their sensitivity and specificity provided by manufacturer* Web sites | Sensitivity, % | Specificity % |
|--|--|---|----------------|---------------|
| AESKU.RAPID SARS-CoV-2 | AESKU.Diagnostics | https://eshop.medifasthk.com/en/AESKU-COVID-19-Rapid-Antigen-Test-2-Tests | 100 | 98.00 |
| AESKU.RAPID SARS-CoV-2 | AESKU.Diagnostics | https://www.aesku.com/index.php/diagnostics/aesku-rapid-sars-cov-2-antigen- tests | 100 | 98 |
| AESKU.RAPID SARS-CoV-2 | AESKU.Diagnostics | https://www.aesku.com/index.php/diagnostics/aesku-rapid-sars-cov-2-antigentests | 100 | 98 |
| Aichek, COVID-19 Antigen Home Test | Hangzhou Aichek Medical Technology | https://www.consumer.org.hk/tc/rapid_antigen_test_search | NA | NA |
| FIATest, SARS-CoV-2 Antigen Rapid Test Cassette(Nasopharyngeal Swab) | Hangzhou All Test Biotech | https://www.custom-monoclonalantibody.com/sale-2991704-high-quality-microalbumin-test-use-by-fiatest-fluorescence-immunoassay-analyzer-in-human-whole-blood.html | NA | NA |
| ALLTest, SARS-CoV-2 Antigen Rapid Test (Nasal Swab) (INCP- 502-N) | Hangzhou AllTest Biotech | https://www.maskwholesale.eu/rapid-tests/alltest-corona-antigen-nasal-swab-rapid-test_292_1314/ | 95.40 | 99.40 |
| Biosynex Autotest Antigenique COVID-19 Ag | Biosynex | https://www.biosynex.com/products/pharmacy/diagnosis/self-tests/biosynex- covid-19-ag-bss-self-test/?lang=en | 97.20 | 100 |
| BioTeke SARS-CoV-2 Antigen Test Kit | BioTeke Corporation (Wuxi) | https://www.hktvmall.com/hktv/en/main/Milan-Store/s/H0257001/Personal-Care-%26-Health/Personal-Care-%26-Health/Self-Test-Kits/BIOTEKE-Covid19-Test-Kit-SARSCoV2-Antigen-Rapid-Test-Kit-Omicron-Delta-3pc-Random-Box/p/H0257001_S_BIOTEKE-3?scrollTo=descriptionsTab | 95 | 99.28 |
| BIOUHAN, SARS-CoV-2 Antigen Rapid Test (Colloidal Gold Method) | Biohit Healthcare (Hefei) | https://www.biouhan.com/AgCC/index.aspx | 96.12 | 99.49 |
| Clungene, COVID-19 Antigen Rapid Test | Hangzhou Clongene Biotech | https://www.hansagt24.com/en/covid-19-antigen-rapid-test-for-professional- use/80-clungene-covid-19-antigen-rapid-test-cassette.html | 98 | 99.70 |
| CO-Check SARS-CoV-2 Antigen LFIA Test | Sanwa BioTech (三和生物科 技) | https://www.tga.gov.au/resources/covid-19-test-kits/co-check-sars-cov-2- antigen-lfia-test-poct | NA | NA |
| Coretests, COVID-19 Ag Test | Core Technology | https://patika1.hu/CoreTest-COVID-19-Antigen-teszt-orr-1x | 95.11 | 100 |
| Coronavirus (2019-nCoV)- Antigentest- | Beijing Hotgen Biotech | http://www.hotgen.com.cn/zl1.html | 90.70 | 100 |
| Hotgen Novel Coronavirus 2019 n- CoV Antigen Test (for self-testing use) | Beijing Hotgen Biotech | https://www.drb-operations.de/en/hotgen-coronavirus-rapid-test/ | 95.37 | 99.13 |
| COVID-19 / influenza A virus / influenza B virus Antigen test kit (colloidal gold) | Xiamen Hopegen Medical Technology | https://www.shoptest.com/covid19-test-hopegen321.html | 96 | 99 |
| Covid-19 Antigen CARD Kit | GeFosun Diagnostics (Shanghai) | https://eshop.pasioncare.com/en/products/fosun-diagnostics-covid-19-antigen- card-kit-2 | 96.75 | 98.26 |
| COVID-19 Antigen Nasal Test Kit | Assure Tech. (Hangzhou) | https://www.assuretech-product.com/search/COVID.html | 96.80 | 99.80 |
| COVID-19 Antigen Rapid Detection Kit (Colloidal Gold) | Pro-med (Beijing) Technology | https://www.consumer.org.hk/tc/rapid_antigen_test_search | NA | NA |
| COVID-19 Antigen Rapid Test | Beijing North Institute of Biotechnology | https://www.consumer.org.hk/tc/rapid_antigen_test_search | 94.70 | 99 |
| COVID-19 Antigen Rapid Test | Shenzhen Everbest Machinery Industry | https://cem-instruments.de/products/covid-19-antigen-schnelltest/ | 92.73 | 100 |
| COVID-19 Antigen Rapid Test Kit | Beijing Kewei Clinical Diagnostic Reagent | http://en.keweidiagnostic.com/index.php?m = content&c = index&a = show&catid = 200&id = 184 | 96.18 | 100 |
| COVID-19 Antigen Rapid Test Kit (Colloidal Gold) | AmonMed | http://en.amonmed.com/ | 95.05 | 99.55 |

| Brand name | Manufacturer | Web sites | Sensitivity, % | Specificity, % |
|---|--|--|----------------|----------------|
| COVID-19 Antigen Rapid Test Kit (Colloidal gold) | Xiamen AmonMed Biotechnology | https://www.consumer.org.hk/tc/rapid_antigen_test_search | 100 | 99.55 |
| FIATest, COVID-19 Antigen Test Cassette | Hangzhou AllTest Biotech | https://www.alltests.com.cn/Home/ProductInfo/385 | NA | NA |
| Flowflex SARS-CoV-2 Antigen Rapid Test | Acon Biotech (Hangzhou) | https://www.aconbio.com/en/ACON/Rapidtest/ | 97.22 | 99.71 |
| Test Kit (Colloidal Gold Chromatographic Immunoassay) | Shenzhen Microprofit Biotech | https://www.sasa.com.hk/SalePage/Index/268951 | 92.93 | 100 |
| Fosun Covid-19 Ag CARD | Fosun Diagnostics (Shanghai) | https://eshop.pasioncare.com/en/products/fosun-diagnostics-covid-19-antigen- card-kit-2 | 96.75 | 98.26 |
| Hecin, 2019-nCoV Antigen Test Kit (colloidal gold method) | Guangdong Hecin | https://hplushk.com/products/hecin | 97.09 | 99.78 |
| iClean, COVID-19 Ag Rapid Test Kit (Colloidal Gold) | Huachenyang (Shenzhen) Technology | https://www.linkedin.com/pulse/iclean-covid-19-antigen-rapid-test-listed-eu- common-list-ivy-peng/ | 91 | 100 |
| INDICAID COVID-19 Rapid Antigen Test | Phase Scientific | https://www.intecasi.com/rapid-sars-cov-2-antigen-test-nasal-swab-for-self- testing-use p55.html | 93.64 | 100 |
| Medomics, SARS-CoV-2 Antigen Rapid Test (LFIA) | Jiangsu Medomics Medical Technology | https://www.medomics-dx.net/product/SARS-CoV-2-Antigen-Test-Kit- %28LFIA%29-Home-Use-Single-Pack-492.html | 97.73 | 99.51 |
| Novel Coronavirus (SARS-Cov-2) Antigen Rapid Test Device (nasal swab) | Hangzhou Realy Tech | https://www.takemycovidtest.com.au/products/p/covid-19-rapid-home-test-kit-1-pack-sxr9t | 95.38 | 99.99 |
| One Step Test for SARS-CoV-2 Antigen (Colloidal Gold) | GETEIN Biotech | https://leo-shop.de/produkt/getein-schnelltest/ | 97.06 | 98.71 |
| GP One Step Test for SARS-CoV-2 Antigen | GETEIN Biotech | http://www.medical.iap.com.hk/index.php?route=product/product&product_id=19 | 97 | 98.7 |
| Panbio COVID-19 Antigen Self-Test | Abbott Rapid Diagnostics | https://www.globalpointofcare.abbott/ww/en/products-solutions.html | 98.10 | 100 |
| Rapid COVID-19 Antigen Self-Test | Healgen Scientific | https://www.quadratech.co.uk/product/healgen-rapid-covid-19-antigen-self-test-single-cassette-ce-marked-15min-nasal-swab/ | 97.25 | 98.73 |
| Rapid SARS-CoV-2 Antigen Test | InTec PRODUCTS | https://www.intecasi.com/rapid-sars-cov-2-antigen-test-nasal-swab-for-self- testing-use_p55.html | 93.64 | 100 |
| RightSign, COVID-19 Antigen Rapid Test Cassette (Nasal Swab) | Hangzhou Biotest Biotech | https://hygiene100.de/produkt/rightsign-hangzhou-biotest-biotech-covid-19- antigen-rapid-test-cassette-nasal-swab/ | 93.75 | 99.12 |
| Roche, SARS-CoV-2 Antigen Self Test Nasal | SD. Biosensor | https://diagnostics.roche.com/gb/en/products/params/sars-cov-2-antigen-self- test-nasal.html#productSpecs | 91.10 | 99.60 |
| Roche, SARS-CoV-2 Rapid Antigen Test Nasal | SD. Biosensor | https://diagnostics.roche.com/global/en/products/params/sars-cov-2-rapid- antigen-test.html | 95.50 | 99.20 |
| YHLO GLINE-2019-nCoV Ag | Shenzhen Watmind Medical | https://www.mblbio.com/e/products/ivd/list/YH-G86247E.html | 96.93 | 99.25 |
| SARS-CoV-2 Ag Self-Test Kit (Nasal Swab) | Shenzhen Watmind Medical | https://www.hktvmall.com/hktv/en/main/SUN-TONE-RETAIL-SOLUTIONS- LIMITED/s/H8612001/Personal-Care-%26-Health/Personal-Care-%26- Health/Health/Self-Test-Kits/COVID-SelfTest-Kit-Nasal-Swab-1-kit-15minTEST- RATtest-Omicron-Delta-CE-Ctsensitivity/p/H8612001 S AQ Adult 1kit | 95.70 | 100 |
| SARS-CoV-2 and Influenza A+B Antigen Combo Rapid Test (Nasal Swab) | Hangzhou AllTest Biotech | https://www.alltests.com.cn/Home/product | 97.60 | 99.70 |
| SARS-CoV-2 Antigen Assay Kit (Collodial Gold Method) | Zybio | https://mybio.ie/products/zybio-sars-cov-2-antigen-assay-kit-home-self-test-188- unit-case-ce-ivd-certified | 88.79 | 99.04 |
| SARS-CoV-2 Antigen Rapid Test Cassette | Hangzhou Sejoy | https://rapidtest-lab.com/en/termek/sejoy-sars-cov-2-antigen-nasal-rapid-test/ | 97.9 | 99.99 |

| Brand name | Manufacturer | Web sites | Sensitivity, % | Specificity, % |
|---------------------------------------|-------------------------|--|----------------|----------------|
| SARS-CoV-2 Antigen Rapid Test | Zhuhai Encode Medical | https://www.consumer.org.hk/tc/rapid_antigen_test_search | 95 | 100 |
| Device | Engineering | | | |
| SARS-CoV-2 Antigen Rapid Test Kit | Labnovation | https://www.consumer.org.hk/tc/rapid_antigen_test_search | 94 | 100 |
| SARS-CoV-2 Antigen Rapid Test | Beijing Lepu Medical | https://en.lepumedical.com/lepu-medicals-sars-cov-2-antigen-rapid-test- | 95.90 | 100 |
| Kits for Self-testing (Colloidal Gold | Technology | acquir.html | | |
| Immunochromatography) | | | | |
| SARS-CoV-2 Virus Antigen | BGI | NA | NA | NA |
| Detection Kit (colloidal gold method) | | | | |
| Savewo, COVID-19(SARS-CoV-2) | Anhui Deepblue Medical | https://www.mdd.gov.hk/tc/whats-new/rapid-antigen-tests-covid- | 96.40 | 99.80 |
| Antigen Test Kit (Colloidal Gold) | Technology | 19/index.html#gallery_tb1_3-2 | | |
| Skypro, Rapid COVID-19 Antigen | Anbio (Xiamen) | https://skypro.com.hk/?p = 5962⟨ = en | 98 | 100 |
| Test (Colloidal Gold)/ Nasal Swab | Biotechnology | | | |
| Verino Pro SARS-CoV-2 Ag Rapid | VivaChek Biotech | https://www.anjoycycle.com/en/products/verino-pro-rapid-antigenic-test-sars- | 97.42 | 99.99 |
| Test | (Hangzhou) | cov-2-ag | | |
| Wondfo, Wondfo 2019-nCoV | Guangzhou Wondfo | https://www.abingdonhealth.com/products/covid-19-antigen-self-test/ | 91.63 | 99.84 |
| Antigen Test (Lateral Flow Method) | | | | |
| YHLO, GLINE-2019-nCoV Ag | Shenzhen YHLO Biotech | https://www.lyreco.com/webshop/ENHK/yhlo-gline-2019-ncov-ag-rapid-antigen- | 96.38 | 99.56 |
| | | test-single-test-product-00000000016214462.html | | |
| Dynamiker SARS-CoV-2 Ag Rapid | Dynamiker Biotechnology | https://covid-19-diagnostics.jrc.ec.europa.eu/devices/detail/2533 | 95.7 | 99.1 |
| Test | (Tianjin) Co.,Ltd | | | |
| Jinwofu Novel Coronavirus (SARS- | Jinwofu Bioengineering | https://bjjwf.cn/en/h-pd-36.html | 96.71 | 99.73 |
| CoV-2) Antigen Rapid Test Kit | Technology Co., Ltd | | | |
| Roche SARS-CoV-2 Rapid Antigen | SD Biosensor | https://diagnostics.roche.com/global/en/products/params/sars-cov-2-rapid- | 89.6 | 99.1 |
| Test Nasal | | antigen-nasal-test.html#productSpecs | | |
| Roche SARS-CoV-2 Antigen Self | SD Biosensor | https://diagnostics.roche.com/global/en/products/params/sars-cov-2-antigen-self- | 95.8 | 100 |
| Test Nasal | | test-nasal.html | | |

^{*}NA, not available.



Appendix Figure 1. Percentages of SARS-CoV-2 Omicron BA.2 and BA.4/BA.5 variants during the 6th wave of the COVID-19 outbreak in Hong Kong in 2022.