Supplementary Materials

Additional File 1

**Participant No:**

**Questionnaire (for children 18 years or below): Baseline survey**

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| **Children's information** （ask their parents） |
| **1** | **Children's name** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **2** | **Date of birth (day/month/year)**: | \_\_\_\_\_\_\_ **day** \_\_\_\_ **month** \_\_\_\_\_ **year** |
| **3** | **Gender**: |  ❒male ❒female |
| **4** | **Ethnics** | \_\_\_\_\_\_\_\_\_\_  |
| **5** | **Height**：  | □□□cm |
| **6** | **Weight**： | □□□.□kg |
| **7** | Is he or she a student？ | ❒ Primary school students ❒ Junior high school students ❒ High school students❒No |
| **8** | Please specify in which School and class is he or she. | School’s name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_grade\_\_\_\_\_\_class  |
| **9** | Thinking back to the past month, how would you describe your child's health status……..[ Read options out loud] | ❒ Excellent ❒Very good ❒ Good ❒ Fair ❒ Poor |
| **10** | How many times has your child had a cold in the past 2 months?  | \_\_\_\_\_\_\_\_\_\_\_\_\_time/times |
| **11** | Has your child ever been diagnosed by a doctor with a long-term or chronic medical condition that requires regular follow-up visits or medication?  | ❒Yes ❒No |
| **12** | If so, what kind of disease it is? |
|  |  |  |  |  |
|  | **Action:** |  | **Growth/endocrine system:** |  |
|  | Lack of concentration and hyperactivity……………… | ❒01 | Endocrine problems (Such as thyroid dysfunction)… | ❒18 |
|  | Anxiety disorders……………………… | ❒02 | Developmental problems (Too short, too tall, too thin, too fat)…………………………………… | ❒19 |
|  | autism…………………………………… | ❒03 | Diabetes……………………………… | ❒20 |
|  | Depression………………………… | ❒04 |  |  |
|  | Behavioral problems…………………… | ❒05 |  |  |
|  |  |  | **Blood/tumor/immunity:** |  |
|  | **Intelligent development:** |  | Anemia and other hematological diseases…………… | ❒21 |
|  | Mental retardation…………………… | ❒06 | Cancer………………………………… | ❒22 |
|  | Cerebral palsy or other motor problems…………… | ❒07 | Primary immune deficiency……… | ❒23 |
|  | Eclampsia/epilepsy…………………… | ❒08 | Chronic rheumatic diseases (e.g. juvenile idiopathic arthritis, systemic lupus erythematosus)……………………… | ❒24 |
|  | Hearing impairment or deafness……… | ❒09 | Eczema………………………………… | ❒25 |
|  | Vision problems………………………… | ❒10 | Other skin diseases……………… | ❒26 |
|  | Language barriers……………………… | ❒11 | A food allergy……………………… | ❒27 |
|  | Learning disabilities…………………… | ❒12 |  |  |
|  |  |  | **Others:** |  |
|  | **Heart/respiratory system:** |  | Gastrointestinal and liver problems…………………… | ❒28 |
|  | Asthma…………………………………… | ❒13 | Chronic kidney disease…………… | ❒29 |
|  | Nasal allergies………………………… | ❒14 | Sleep problems (including sleep apnea)…………………………… | ❒30 |
|  | Chronic respiratory, lung, or respiratory problems (excluding asthma)……………………………… | ❒15 | Neuromuscular diseases | ❒31 |
|  | Chronic allergies or sinusitis…… | ❒16 | Slow orthopedics, bone, or joint problems……………………………… | ❒32 |
|  | Heart disease (excluding congenital heart disease)………… | ❒17 | Congenital malformations (e.g. cleft lip and palate, including congenital heart disease)……… | ❒33 |
|  | Others (Please adds): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ❒34 |
|  | ***The following questions are answered by children aged 10-17*** ***(based on Question 2)*** |
| **13** | Please answer the following questions | 1-2 times | 3-4 times | 5-6 times | 7-8 times |  9 times or more |
| **13a** | How often do you wash your hand | ❒ | ❒ | ❒ | ❒ | ❒ |
| **13b** | How often do you your wash hand with soap | ❒ | ❒ | ❒ | ❒ | ❒ |
| **13c** | How often do you wash your hand in your school | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14** | How often do you wash your hand in these situations？***（Interpretation：Do you wash your hands every time (always), more than half (often), about half (sometimes) , less than half times (occasionally), or never.*** |
|  |  | Always | Often | sometimes  | Occasionally | Never |
| **14a** | When the hands can be seen to be dirty | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14b** | Before eating  | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14c** | After defecation | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14d** | After pee | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14e** | After outdoor activities | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14f** | After wiping your nose | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14g** | After sneezing or coughing | ❒ | ❒ | ❒ | ❒ | ❒ |
| **14h** | After a visit to the hospital/clinic | ❒ | ❒ | ❒ | ❒ | ❒ |
| **15** | How often do the following situations occur?***（Interpretation：Do you wash your hands every time (always), more than half (often), about half (sometimes), less than half (occasionally), or never.*** |
|  |  | Always | Often | sometimes  | Occasionally | Never |
| **15a** | How often do you cover your mouth when you sneeze? | ❒ | ❒ | ❒ | ❒ | ❒ |
| **15b** | How often do you cover your mouth with a tissue or handkerchief when you sneeze? | ❒ | ❒ | ❒ | ❒ | ❒ |
| **15c** | How often do you cover your mouth when you cough?  | ❒ | ❒ | ❒ | ❒ | ❒ |
| **15d** | How often do you cover your mouth with a tissue or handkerchief when you cough? | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16** | How often do you wear a mask in these situations？***（Interpretation：Do you wash your hands every time(always), more than half (often), about half (sometimes) , less than half (occasionally) , or never.*** |
|  |  | Always | Often | sometimes  | occasionally | Never |
| **16a** | When you got a cold-like illness and stayed at home | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16b** | When you got a cold-like illness and stayed at school | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16c** | When a classmate in the class had got a cold-like illness and you stayed at class | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16d** | When a family member had got a cold-like illness and you stayed at home | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16e** | When you visited a hospital | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16f** | When you went to a crowded public place | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16g** | When you went outside in a very cold day of winter | ❒ | ❒ | ❒ | ❒ | ❒ |
| **16h** | When you went outside and there is haze/air pollution outside | ❒ | ❒ | ❒ | ❒ | ❒ |
| **17** | Is there always a bar of soap beside the sink at home?  | ❒Yes ❒No |
| **18** | Is there a hand-washing faucet/sink in your school toilets  | ❒Yes ❒No |
| **19** | At school, estimate how many meters from the classroom to the nearest hand-washing faucet? | \_\_\_\_\_\_\_\_\_meters |
| **20** | Are there enough water taps/sinks so that you do not need to wait for a long time to wash hand | ❒Yes ❒No |
| **21** | Is there always a bar of soap beside the sink at school? | ❒ Always ❒Often ❒ sometimes❒ Occasionally ❒ Never |
| **22** | Have you ever heard of infectious disease? | ❒Yes ❒No |
| **23** | Have you ever heard that some diseases are caused by microorganisms such as bacteria/viruses? | ❒Yes ❒No |
| **24** | Do you agree or disagree with the following statements? | Agree | Disagree | Unknown |
| **24a** | Some diseases or germs can spread from person to person | ❒ | ❒ | ❒ |
| **24b** | Cold - like illness can be transmitted to other people | ❒ | ❒ | ❒ |
| **24c** | People who get a cold - like illness can contaminate everyday objects with germs | ❒ | ❒ | ❒ |
| **24d** | A person with a cold-like illness may transmit the germs to others by coughing and sneezing openly | ❒ | ❒ | ❒ |
| **24e** | Droplets generated by coughing and sneezing can contain germs | ❒ | ❒ | ❒ |
| **24f** | Germs generated by coughing and sneezing can contaminate objects around | ❒ | ❒ | ❒ |
| **24g** | People with poor personal hygiene are more likely to get sick | ❒ | ❒ | ❒ |
| **25** | Do you agree or disagree with the following statements about disease prevention | Agree | Disagree | Unknown |
| **25a** | Frequent hand washing can reduce the transmission of infectious diseases such as hand, foot and mouth disease and influenza | ❒ | ❒ | ❒ |
| **25b** | Washing your hands makes them too clean and lowers your immunity | ❒ | ❒ | ❒ |
| **25c** | Washing hands with soap removes germs more effectively than that without soap | ❒ | ❒ | ❒ |
| **25d** | Providing hand scrubbing alcohol on public transport can help reduce the spread of the disease | ❒ | ❒ | ❒ |
| **25e** | Covering your mouth when sneezing can reduce the transmission of germs | ❒ | ❒ | ❒ |
| **25f** | When you have a cold or influenza, wearing a mask can reduce the transmission of germs | ❒ | ❒ | ❒ |
| **25g** | When you have a cold, staying away from school can avoid transmitting it to other students and teachers | ❒ | ❒ | ❒ |
| **26** | Would it make you uncomfortable if people around you behaved in some of the following ways? | Agree | Disagree | Unknown |
| **26a** | Does it make you uncomfortable if people around you don't wash their hands after going to the bathroom? | ❒ | ❒ | ❒ |
| **26b** | Does it make you uncomfortable if people around you don't wash their hands after cleaning up the trash? | ❒ | ❒ | ❒ |
| **26c** | Do you feel uncomfortable when people around you cough without cover? | ❒ | ❒ | ❒ |
| **26d** | Does it make you uncomfortable if someone around you coughs on you? | ❒ | ❒ | ❒ |

Signature of Interview:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Interviewing date: \_\_\_\_\_\_\_day\_\_\_\_month\_\_\_\_\_year