Supplementary Materials

Additional File 1

**Participant No:**

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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