**2020**

**Survey on Air Quality near Your Household**

**Questionnaire**

All responses given will be used for academic research only.

Any personal information provided will be kept strictly confidential.

**▎Subject No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**▎Interviewer name or No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Interview START time and date at \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_**

**(00:00-24:00) (DAY) (MONTH) (YEAR)**

**A Household and Community****Environments**

1. How many air-conditioners are in your house? **\_\_\_\_\_\_\_\_\_\_**
2. How many air-cleaners are in your house? **\_\_\_\_\_\_\_\_\_\_**
3. How many total indoor floor areas are in your house? (For multi-floor house, please add up the total) around **\_\_\_\_\_\_\_**m2
4. Is your living room carpeted?

□(01) Yes, entirely □(02) Yes, with a small piece □(03) No

1. What is the main construction material of your house?

□(01) Reinforced concrete

□(02) Brick and concrete

□(03) Steel and reinforced concrete

□(04) Light-weight steel wall and structure

□(05) Wood

□(06) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

1. What type of window is in your living room?

□(01) Non-airtight (wood)

□(02) Non-airtight (metal)

□(03) Airtight

□(04) No window

□(05) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

Tips for A7 and A8: Ask firstly whether there is air-conditioning/heating on. If yes, check ‘04’; if no, ask which of ‘01’-‘03’ best describes the ventilation condition. The described condition refers mainly to windows. If there are no windows in the living room, then the condition refers to the door.

1. What is the typical ventilation status in your **living room** in the past year?

(The hot, mild or cold days depend on the feeling of subject)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| the windows/door | Fully open | Half open | Slightly open or all closed  (**Without** air-conditioning or heating on) | Slightly open or all closed  (**With** air-conditioning or heating on) |
| A7a. **On hot days** | □(01) | □(02) | □(03) | □(04) |
| A7b. **On mild days** | □(01) | □(02) | □(03) | □(04) |
| A7c. **On cold days** | □(01) | □(02) | □(03) | □(04) |

1. What is the typical ventilation status in your **bedroom** in the past year?

(The hot, mild or cold days depend on the feeling of subject)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| the windows/door | Fully open | Half open | Slightly open or all closed  (**Without** air-conditioning or heating on) | Slightly open or all closed  (**With** air-conditioning or heating on) |
| A8a. **On hot days** | □(01) | □(02) | □(03) | □(04) |
| A8b. **On mild days** | □(01) | □(02) | □(03) | □(04) |
| A8c. **On cold days** | □(01) | □(02) | □(03) | □(04) |

1. Do you run business in your house?

□(01) No □(02) Yes, main product or service **\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Within a radius of 15 meters (roughly 4 houses) from your house, is there any roads, elevated highways/freeways

□(01) No(Go to A12) □(02) Yes

1. How often does traffic jam occur on these during rush hours?

□(01) Always □(02) Often □(03) Sometimes □(04) Seldom □(05) Never

1. Which of the following is found within a radius of 50 meters (1-min walking distance) from your house? (Multiple choices allowed)

□(01) Restaurants or street food vendors that produce smoke and grease

□(02) Places with incense or joss paper burning

□(03) Traditional/wet market

□(04) Night market (with at least 10 vendors or stores) open daily or at least once a week

□(05) Stores or factories that produce unpleasant (peculiar) smell or dust

(e.g., laundromat or vehicle repair shop)

□(06)None of the above(If the choice of A10 is (01), go to A12)

1. Which of the choices you selected for A10 and A12 upset your life most?

(Remind the A10 and A12 respondent of his/her choices if necessary.)

□(01) Roads, elevated highways or freeways with heavy traffic

□(02) Restaurants or street food vendors that produce smoke and grease

□(03) Places with incense or joss paper burning

□(04) Traditional/wet market

□(05) Night market open daily or at least once a week

□(06) Stores or factories that produce unpleasant (peculiar) smell or dust

□(07) None of the above (Go to A15)

1. Overall speaking, how seriously is your life **upset** by the above situation?

□(01) Very seriously □(02) Seriously □(03) Rather seriously □(04) Not seriously

1. How do you rate the air quality in your community?

□(01) Very good □(02) Good □(03) Fair □(04) Poor □(05) Very poor

**B Personal daily routine**

1. In the past month, how long on average do you use the following ways of transport per day?

|  |  |  |
| --- | --- | --- |
|  | (1)Working/School day | (02)**Non**-working/school day |
| 1. Walking | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |
| 1. Manpowered bicycle or tricycle | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |
| 1. Scooter or motorcycle | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |
| 1. Car or truck | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |
| 1. Engine-powered bus | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |
| 1. Train or light rail (tram) | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |
| 1. Subway | **\_\_\_\_\_\_** min | **\_\_\_\_\_\_** min |

1. Excluding time spent on transport, how long on average do you spend outdoors each working/school day? **\_\_\_\_\_\_** hr **\_\_\_\_\_\_** min per day
2. Excluding time spent on transport, how long on average do you spend outdoors each non-working/school day? **\_\_\_\_\_\_** hr **\_\_\_\_\_\_** min per day
3. In the past month, how often do you or your family fry, stir-fry or deep-fry with the kitchen hood on?

□(01) Always □(02) Often □(03) Sometimes □(04) Seldom □(05) Never

□(06) No kitchen hood

1. Do you belong to a religion and, if yes, which religion do you belong to?

□(01) No religion

□(02) Catholic

□(03) Protestant

□(04) Orthodox

□(05) Other Christian

□(06) Jewish

□(07) Islamic

□(08) Buddhist

□(09) Hindu

□(10) Folk religions

□(11) Other Asian religions

□(12) Other religions

1. How often do you worship at your religion place (such as temple, church, mosque …)?

□(01) 3 times or more every day

□(02) 2 times every day

□(03) Once a day

□(04) 3-6 times a week

□(05) 1-2 times a week

□(06) 1-3 times a month

□(07) Less than once a month

□(08) Never (Go to B9)

1. How long on average each time (at this religion place)? **\_\_\_\_\_\_** hr **\_\_\_\_\_\_** min
2. If incense sticks are used in your religion, how many sticks on average do you use each time? **\_\_\_\_\_\_**incense sticks □(00) Not used

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| In the past month, how often on average are you involved in the following activities?  How long on average each time?  1 hr. = 60 min. 2 hr. = 120 min. 3 hr. = 180 min. 4 hr. = 240 min. 5 hr. = 300 min. and so on | | | | | | | | | | | |
|  | a. how often | (01) 3 times or more a day | (02) 2 times a day | (03) Once a day | (04) 3-6 times a week | (05) 1-2 times a week | (06) 1-3 times a month | (07) Less than once a month | (08) Never | b. how long per time |
|  | Are you a smoker? How often on it? | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to secondhand smoke? | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to home cooking fume | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to smoke from oven or charcoal | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to smoke from candle or oil lamp | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to smoke from mosquito coil | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to spray of pesticide | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to spray of herbicide | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to exhaust from vehicles | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Visiting traditional markets (not super markets) | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Visiting night markets | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed to incense sticks and joss paper burning | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed from open-air agriculture waste or garbage burning | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |
|  | Exposed from wild fire | □ | □ | □ | □ | □ | □ | □ | □ | \_\_\_\_\_\_ min |

1. Overall speaking, how satisfied/dissatisfied are you with your community (neighborhood)?

□(01) Very satisfied

□(02) Fairly satisfied

□(03) Neither satisfied nor dissatisfied

□(04) Fairly dissatisfied

□(05) Very dissatisfied

1. Through which of the following channels do you **most often** get local air pollution news?

□(01) Newspaper and magazine

□(02) TV and radio broadcast

□(03) Websites and blogs

□(04) Internet

□(05) Friends and relatives

□(06) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

1. Through which of the following channels do you **most often** get information to improve your health?

□(01) Newspaper and magazine

□(02) TV and radio broadcast

□(03) Websites and blogs

□(04) Internet

□(05) Friends and relatives

□(06) Community health center, clinics or hospitals

□(07) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

**C Personal characteristics**

1. Sex：□(01)Male □(02)Female
2. In which year were you born? (in AD year) **\_\_\_\_\_\_\_\_\_\_**

Special code and meanings: 9999 for all missing data

1. What is your height? **\_\_\_\_\_\_\_** cm? What is your weight? **\_\_\_\_\_\_\_** kg?

Special code and meanings: 9999 for all missing data

1. What is your ethnicity? {Each country lists its own top four ethnicity groups for choices}

□(01)

□(02)

□(03)

□(04)

□(05)Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

1. How many years of education have you completed? **\_\_\_\_\_\_\_\_\_\_**years

Special code and meanings: 9999 for all missing data

1. What is your present marital status?

□(01) Never married

□(02) Cohabiting

□(03) Married

□(04) Divorced

□(05) Separated

□(06) Widowed

□(07) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

1. Overall speaking, how do you consider your physical health?

□(01) Very good □(02) Good □(03) Fair □(04) Poor □(05) Very poor

1. Which of the following have you been diagnosed with? (Multiple choices allowed)

□(01) High blood pressure and other cardiovascular diseases

□(02) Asthma

□(03) Rhinitis or nasal allergies

□(04) Bronchitis, pneumonia and other lung diseases

□(05) Skin disease

□(06) Renal disease

□(07) Diabetes

□(08) Sleep disorder

□(09) None of the above

1. In the past three years, have you done any medical examination at your own expense?

□(01) No

□(02) Yes, general medical examination

□ (03)Yes, but only for cancer screening

1. Are you covered by government subsidized or private healthcare insurance?

□(01) None □(02) Both

□(03) Government subsidized healthcare insurance only

□(04) Private healthcare insurance only

□(05) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

1. On a scale of 1 to 10 with 1 being the bottom and 10 being the top, which level would you rank your social status?

|  |  |  |  |
| --- | --- | --- | --- |
| class | **TOP** | □(10) | **TOP** |
|  | □(09) |  |
|  | □(08) |  |
|  | □(07) |  |
|  | □(06) |  |
|  | □(05) |  |
|  | □(04) |  |
|  | □(03) |  |
|  | □(02) |  |
| **BOTTOM** | □(01) | **BOTTOM** |

1. you currently have a job?

□(01) Full-time job

□(02) Part-time job

□(03) Student/studying but with job

□(04) Work for family business with pay

□(05) Work for family business without pay

□(06) Apprentice/trainee

□(07) Compulsory military service

□(08) Alternative civilian service

If select (09) to (14), go to C16

□(09) Retired and with no job

□(10) Student/studying and with no job

□(11) Homemaker and with no job

□(12) Aged/physically or mentally handicapped/ sick and with no job

□(13) Have no job

□(14) Never have a job

□(15) Other (Please specify) **\_\_\_\_\_\_\_\_\_\_**

1. What do you mainly do in your current job?

**a. industrial classification**

□(01) Agriculture, Forestry, Fishing and Animal Husbandry

□(02)Mining and Quarrying

□(03)Manufacturing

□(04)Electricity and Gas Supply

□(05)Water Supply and Remediation Activities

□(06)Construction

□(07)Wholesale and Retail Trade

□(08)Transportation and Storage

□(09)Accommodation and Food Service Activities

□(10)Information and Communication

□(11)Financial and Insurance Activities

□(12)Real Estate Activities

□(13)Professional, Scientific and Technical Activities

□(14)Support Service Activities

□(15)Public Administration and Defense; Compulsory Social Security

□(16)Education

□(17)Human Health and Social Work Activities

□(18)Arts, Entertainment and Recreation

□(19)Other Service Activities

**b. position**

□An employee

□Self-employed **without** employees

□Self-employed **with** employees

1. In the past month, how many hours on average do you work per day?

**\_\_\_\_\_\_** hr **\_\_\_\_\_\_** min

1. Do you work indoors or outdoors? (vehicle with mostly closed windows means indoor environment)

□(01) Always indoors

□(02) Mostly outdoors, sometimes indoors

□(03) Half indoors and half outdoors

□(04) Mostly indoors, sometimes outdoors

□(05) Always outdoors

1. What is your **personal gross income** per month on average (including your full-time and part-time salary, bonus and allowances, overtime compensation, commission, income from personal business or investments, rent, pension, financial support from parents/children and the like)?

{divide 10 groups based on your country personal gross income distribution and fill in its currency. eg (01) under 100USD, (10)between 5,000 to 5,999USD}

□(01) None to under 9.9%

□(02) between 10-19.9%

□(03) between 20-29.9%

□(04) between 30-39.9%

□(05) between 40-49.9%

□(06) between 50-59.9%

□(07) between 60-69.9%

□(08) between 70-79.9%

□(09) between 80-89.9%

□(10) above 90%

1. How many people (including yourself) live in your house? **\_\_\_\_\_\_\_** people
2. What is your **family gross income** per month on average (including your full-time and part-time salary, bonus and allowances, commission, interests/dividends, government subsidies, rent, pension and other incomes)?

{divide 10 groups based on your country family gross income distribution and fill in its currency. eg (01) under 500USD, (10)between 10,000 to 15,999USD}

□(01) None to under 9.9%

□(02) between 10-19.9%

□(03) between 20-29.9%

□(04) between 30-39.9%

□(05) between 40-49.9%

□(06) between 50-59.9%

□(07) between 60-69.9%

□(08) between 70-79.9%

□(09) between 80-89.9%

□(10) above 90%

**Interview END time and date at \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_**

**(00:00-24:00) (DAY) (MONTH) (YEAR)**