**Appendix: COVID-19 risk worksheet**

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| **Variable (component, factor, parameter)** |
| **Component: Exposure rate** |
| **Factor: Work environment condition**  | **ei** | **EWi** |
| Separate room | 1.67 | 0.05 |
| Sharing the room with one or more people  | 3.47 |
| Working in a silo/large working room | 2.88 |
| Working outdoor in a crowd  | 3.01 |
| **Factor: Contact at work (distance)** | **ei** | **EWi** |
| Without any contact with others  | 1.66 | 0.22 |
| Contact with clients/partners (distance more than 1.5 m) | 2.08 |
| Contact with clients/partners (distance less than 1.5 m) | 3.65 |
| **Factor: Contact at work (time)** | **ei** | **EWi** |
| Little contact with clients/partners (less than 25% of working time in total) | 3.20 | 0.18 |
| Moderate contact with clients/partners (25-50% of working time in total) | 3.60 |
| High contact with clients/partners (50-75% of working time in total) | 4.08 |
| Constant contact with clients/partners (100% of working time) | 4.20 |
| **Factor: Contact with COVID-19 patients in the past 14 days** | **ei** | **EWi** |
| Directly caring a family member suspiciously infected with COVID-19 | 3.79 | 0.30 |
| Directly caring a family member infected with COVID-19 | 4.16 |
| Hospital contact with patient: providing direct clinical services to a non-COVID-19 patient  | 3.47 |
| Hospital contact with patient: providing direct clinical services to a patient suspiciously infected with COVID-19 | 3.97 |
| Hospital contact with patient: providing direct clinical services to a COVID-19 patient | 3.78 |
| Close contact (less than 1.5 m) with another member of treatment team who has already been infected with COVID-19 | 4.17 |
| Close contact (less than 1.5 m) with a COVID-19 patient outdoors | 4.05 |
| Close contact (less than 1.5 m) with a COVID-19 patient indoors | 4.11 |
| Traveling in the same vehicle with a COVID-19 patient for less than 1 h | 4.06 |
| Traveling in the same vehicle with a COVID-19 patient for more than 1 h | 3.84 |
| **Factor: Using transportation systems for daily errands**  | **ei** | **EWi** |
| Using subway  | 4.25 | 0.12 |
| Using bus | 3.90 |
| Using taxi  | 3.75 |
| Using personal vehicle  | 2.37 |
| Walking on foot or using other types of personal transportations such as bicycle or motorcycle  | 2.52 |
| **Factor: Presence in crowds in the past 14 days** | **ei** | **EWi** |
| Presence in a crowd with fewer than 20 people | 3.22 | 0.13 |
| Presence in a crowd with 20-50 people | 3.48 |
| Presence in a crowd with more than 50 people | 3.44 |
| **Component: Probability** |
| **Factor: Ventilation condition of workplace**  | **pi** | **PWi** |
| Internal heating/cooling systems without ventilation from outside (heaters, air conditioners, fan coil units) | 4.12 | 0.09 |
| Appropriate heating/cooling systems with partial ventilation from outside | 2.91 |
| Appropriate heating/cooling systems with complete ventilation from outside (water air conditioners) | 3.28 |
| **Factor: Family conditions** | **pi** | **PWi** |
| Single or living alone | 1.74 | 0.33 |
| Single but living with parents  | 2.94 |
| Married living with spouse without children | 3.29 |
| Married living with spouse with young children (pre-school) | 3.45 |
| Married living with spouse with at least one school-going child | 3.60 |
| Marred living with spouse together with one’s or spouse’s family without children or with young children (pre-school) | 3.50 |
| Marred living with spouse together with one’s or spouse’s family with at least one school-going child | 3.26 |
| Living in dorms, rest homes etc. with four or more people  | 4.38 |
| **Factor: Working conditions of other family members (those the person lives in the same house with)** | **pi** | **PWi** |
| No other family member works | 2.58 | 0.25 |
| One family member works | 3.47 |
| Two or more family members work | 3.98 |
| **Factor: Hand hygiene**  | **pi** | **PWi** |
| Lack of constant washing of hands or washing only with water | 4.04 | 0.13 |
| Washing hands with alcoholic detergents or water and soap only when feeling suspicious | 2.86 |
| Washing hands with alcoholic detergents or water and soap only constantly | 2.40 |
| Not touching eyes, nose and mouth at all  | 2.41 |
| **Factor: Caring about respiratory hygiene**  | **pi** | **PWi** |
| Covering mouth and nose with ordinary tissue | 2.95 | 0.20 |
| Appropriate use of mask | 1.80 |
| Complete social distancing with others (at least 1.5 m) | 1.86 |
| Seeking medical consultation or treatment when having any kind of suspicious symptoms  | 2.08 |
| **Factor: Severity**Note: Group A included patient with congenital immunodeficiency disorders, patients undergoing chemotherapy, and patients being treated with corticosteroids. Group B included patients with underlying diseases such as high blood pressure, uncontrolled diabetes, cardiovascular diseases, BMI > 40, chronic respiratory diseases, and chronic kidney diseases |
| **Factor: Age conditions**  | **si** | **SWi** |
| Under 30 years of age | 2.68 | 0.06 |
| 30-50 years old | 3.40 |
| 51-60 years old | 3.92 |
| Above 60 years of age | 3.98 |  |
| **Factor: Clinical symptoms and effects**  | **si** | **SWi** |
| Dry cough  | 3.52 | 0.34 |
| Shortness of breath  | 3.92 |
| Sour throat  | 3.17 |
| Headache  | 3.31 |
| Fever  | 3.71 |
| Shivering  | 3.63 |
| Fatigue  | 3.25 |
| Digestive disorders such as diarrhea | 3.46 |
| Loss of smell  | 3.40 |
| Respiratory disorder  | 3.39 |
| Chest pain or pressure  | 3.55 |
| Septic shock  | 3.03 |
| Organs disorders  | 3.19 |
| **Factor: Susceptibility**  | **si** | **SWi** |
| The individual does not belong to highly susceptible people in Group A and B; They are athletes  | 2.50 | 0.47 |
| The individual has a history of at least one of the diseases in Group B non-chronically | 3.55 |
| The individual belongs to the susceptible people in Group B | 4.11 |
| The individual belongs to the susceptible people in Group A | 3.72 |
| The individual belongs to the susceptible people in both Group A and B | 4.32 |
| **Factor: Access to diagnostic tests**  | **si** | **SWi** |
| Access to no test whatsoever  | 3.43 | 0.14 |
| Access to fast tests such as fever-measuring tests and oximetry  | 3.12 |
| Access to serology testing (antibody)  | 2.78 |
| Access to PCR molecular testing | 2.88 |
| Access to CT lung screening  | 3.18 |
| **Component: Health belief level** |
| **Factor: Belief in the infectious nature of the disease and its effects** | **bi** | **BWi** |
| The individual does not believe in the infectious nature of the disease at all | 3.44 | 0.29 |
| The individual believes in the infectious nature of the disease but thinks that they don’t have the physical and mental capacities to prevent the disease | 3.52 |
| The individual believes in the infectious nature of the disease but thinks the disease can’t affect them | 3.52 |
| The individual believes in the infectious nature of the disease and completely observes appropriate hygienic behaviors | 2.45 |
| **Factor: Reaction to other people’s hygienic behaviors**  | **bi** | **BWi** |
| The individual makes fun of other people’s hygienic behaviors  | 3.54 | 0.48 |
| The individual does not care about other people’s hygienic behaviors  | 3.59 |
| The individual admires other people’s hygienic behaviors  | 2.53 |
| The individual encourages others to observe hygienic behaviors  | 2.40 |
| **Factor: Health awareness and knowledge**  | **bi** | **BWi** |
| The individual is fully aware of how to prevent COVID-19 | 2.45 | 0.23 |
| The individual is fully aware of COVID-19 symptoms  | 1.96 |
| The individual is fully aware of what they should do when having COVID-19 | 2.51 |
| The individual is fully aware of what they should do when their close relatives and family members have COVID-19 | 2.60 |

**Hint:** In this worksheet, if more than one option holds true for the individual, the worst case should be considered.