**Table 1.** Applied variables in multiple correspondence factor analysis and related main components

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **PC1** | **PC2** | **PC3** |
| **Behavior** |  |  |  |
| Prayer | 0.007 | 0.011 | 0.001 |
| Self-medication | 0.022 | 0.290\* | 0.031 |
| Self-isolation | 0.016 | 0.026 | 0.081 |
| Lifestyle change | 0.031 | 0.138 | 0.034 |
| Changing the feed mode | 0.013 | 0.152 | 0.025 |
| **Conditions of Exposure** |  |  |  |
| Travel outside DR Congo | 0.002 | 0.088 | 0.558\* |
| Staying in a high-risk area | 0.018 | 0.087 | 0.575\* |
| Contact with a confirmed positive Covid-19 | 0.022 | 0.000 | 0.370\* |
| Contact with a symptomatic co-exposed person | 0.101 | 0.196 | 0.095 |
| Contact with medical staff at a hospital treating Covid-19 | 0.065 | 0.118 | 0.020 |
| **Comorbidities** |  |  |  |
| Blood type | 0.007 | 0.016 | 0.030 |
| Heart Disease | 0.661\* | 0.001 | 0.005 |
| Arterial hypertension or cardiovascular pathology | 0.719\* | 0.009 | 0.004 |
| Respiratory pathology | 0.857\* | 0.004 | 0.006 |
| Obesity | 0.791\* | 0.131 | 0.043 |
| Kidney pathology | 0.822\* | 0.002 | 0.004 |
| Diabetes | 0.701\* | 0.010 | 0.006 |
| Immunosuppressive therapy | 0.784\* | 0.001 | 0.020 |
| Other immunosuppression | 0.505\* | 0.009 | 0.006 |
| **Developed symptoms** |  |  |  |
| Fever | 0.010 | 0.448\* | 0.001 |
| Febrile non-febrile syndrome | 0.000 | 0.139 | 0.002 |
| Shivers | 0.012 | 0.367\* | 0.001 |
| Cough | 0.019 | 0.306\* | 0.006 |
| Sweaters | 0.005 | 0.128 | 0.010 |
| Dyspnea | 0.002 | 0.037 | 0.012 |
| Asthenia | 0.011 | 0.485\* | 0.004 |
| Myalgia or aches and pains | 0.002 | 0.126 | 0.043 |
| Diarrhoea | 0.001 | 0.017 | 0.049 |
| Headache | 0.016 | 0.306\* | 0.040 |

PC : Principal component

**Table 2.** Loadings of modalities on the three principal components from the multiple correspondence analysis (MCA).

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **PC1** | **PC2** | **PC3** |
| **Behavior** |  |  |  |
| Practice of self-medication | -0.108 | 0.298\* | 0.074 |
| Changing the feed mode | -0.142 | 0.373\* | -0.113 |
| **Conditions of Exposure** |  |  |  |
| Contact with confirmed case of Covid-19 | -0.124 | 0.004 | 0.295\* |
| Travel outside DR Congo | -0.023 | 0.125 | -0.297 |
| Stay in a high-risk area | 0.066 | 0.111 | -0.296 |
| **Comorbidities** |  |  |  |
| Heart Disease – NSP | 0.846\* | 0.019 | 0.041 |
| Hypertension or Cardiovascular Pathology – NSP | 0.977\* | 0.081 | 0.041 |
| Chronic Respiratory Pathology – NO | 1.212\* | 0.060 | 0.056 |
| Obesity – NO | 1.306\* | 0.031 | 0.019 |
| Obesity – Yes | -0.100 | 0.516\* | -0.225 |
| Chronic Kidney Disease – NO | 1.147\* | 0.044 | 0.044 |
| Diabetes – NO | 0.970\* | 0.087 | 0.053 |
| Immunosuppressive therapy – NSP | 1.397\* | 0.030 | 0.027 |
| Immunosuppressive therapy – Yes | -0.032 | -0.020 | 0.567\* |
| Other Immunosuppression NO | 0.937\* | 0.095 | -0.057 |
| **Developed symptoms** |  |  |  |
| Fever | -0.180 | 0.908\* | 0.030 |
| Febrile non-febrile syndrome | -0.055 | 1.112\* | 0.091 |
| Shivers | -0.280 | 1.182\* | 0.039 |
| Cough | -0.212 | 0.650\* | 0.068 |
| Sweaters | -0.223 | 0.902\* | 0.188 |
| Dyspnea | -0.166 | 0.575\* | 0.245 |
| Asthenia | -0.163 | 0.834\* | 0.055 |
| Myalgia or aches and pains | -0.134 | 0.893\* | 0.393\* |
| Diarrhoea | 0.108 | 0.464\* | 0.597\* |
| Headache | -0.230 | 0.769\* | 0.210 |

NSP: 'doesn't know the status.

**Table 3.** Socioeconomic profile of people considering the three types

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variables** | **Type1** | **Type2** | **Type3** | **Total** | **p-value** |
| **Sex** |  |  |  |  | 0.878 |
| *Female* | 31.481 | 30.843 | 33.708 | 31.293 |  |
| *Male* | 68.519 | 69.157 | 66.292 | 68.707 |  |
| **Age** |  |  |  |  | 0.049 |
| *Under 30 years old* | 23.148 | 35.824 | 38.202 | 34.214 |  |
| *30 to 49 years old* | 63.889 | 51.724 | 47.191 | 52.991 |  |
| *50 years old and over* | 12.963 | 12.452 | 14.607 | 12.775 |  |
| **Religion** |  |  |  |  | 0.927 |
| *Catholic* | 49.074 | 51.533 | 56.18 | 51.739 |  |
| *Protestant* | 43.519 | 40.996 | 40.449 | 41.307 |  |
| *Muslim* | 2.778 | 2.874 | 1.124 | 2.643 |  |
| *Other* | 4.630 | 4.598 | 2.247 | 4.305 |  |
| **Level of education** |  |  |  |  | 0.000 |
| *None* | 0.000 | 3.640 | 0.000 | 2.643 |  |
| *Primary* | 0.926 | 4.023 | 7.865 | 4.033 |  |
| *Secondary* | 27.778 | 40.996 | 55.056 | 40.751 |  |
| *Academic* | 51.852 | 40.996 | 37.079 | 42.142 |  |
| *Academic Post* | 19.444 | 10.345 | 0.000 | 10.431 |  |
| **Marital status** |  |  |  |  | 0.007 |
| *Single* | 21.296 | 37.739 | 31.461 | 34.492 |  |
| *Married* | 72.222 | 58.621 | 65.169 | 61.474 |  |
| *Divorced* | 0.926 | 1.533 | 2.247 | 1.53 |  |
| *Widow(er)* | 5.556 | 2.107 | 1.124 | 2.503 |  |
| **Monthly income** |  |  |  |  | 0.000 |
| *Less than 100*  | 5.556 | 16.667 | 29.213 | 16.551 |  |
| *100 à 299*  | 21.296 | 28.928 | 23.595 | 27.121 |  |
| *300 à 499*  | 20.370 | 29.311 | 31.461 | 28.234 |  |
| *500 à 699*  | 16.666 | 11.303 | 3.371 | 11.126 |  |
| *700 à 999*  | 19.444 | 7.663 | 7.866 | 9.457 |  |
| *1000 and more* | 16.666 | 6.130 | 4.494 | 7.511 |  |
| **Household size** |  |  |  |  | 0.063 |
| *Less than 3* | 6.481 | 7.663 | 3.371 | 6.954 |  |
| *3 à 7* | 66.667 | 56.513 | 47.191 | 56.885 |  |
| *8 à 12* | 24.074 | 32.759 | 46.067 | 33.102 |  |
| *More than 12* | 2.778 | 3.065 | 3.371 | 3.06 |  |
| **Commune** |  |  |  |  | 0.011 |
| *Bagira* | 2.778 | 10.92 | 17.978 | 10.57 |  |
| *Ibanda* | 81.481 | 73.18 | 69.663 | 73.992 |  |
| *Kadutu* | 14.815 | 15.326 | 12.36 | 14.882 |  |
| *Outside Bukavu* | 0.926 | 0.574 | 0.000 | 0.556 |  |

**Table 4.** Characteristics of the three people types considering the studied parameters

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Type1** | **Type2** | **Type3** | **Total** | **p-value** |
| *Blood Type* |  |  |  |  |  |
| *A-*  | 0.000 | 0.958 | 1.124 | 0.834 |  |
| *A+* | 12.037 | 11.303 | 8.989 | 11.127 |  |
| *AB-*  | 0.000 | 0.958 | 0.000 | 0.695 |  |
| *AB+* | 6.481 | 5.939 | 12.36 | 6.815 |  |
| *B-* | 0.926 | 0.766 | 0.000 | 0.695 |  |
| *B+* | 24.074 | 12.644 | 8.989 | 13.908 |  |
| *O-* | 4.630 | 1.724 | 0.000 | 1.947 |  |
| *O+* | 21.296 | 27.969 | 25.843 | 26.704 |  |
| *NSP* | 30.556 | 37.739 | 42.697 | 37.274 |  |
| Presence of comorbidity | 40.741 | 12.261 | 5.618 | 15.716 |  |
| **Comorbidities** |  |  |  |  |  |
| Heart Disease | 8.333 | 1.149 | 0.000 | 2.086 |  |
| HPA or Cardiovascular Pathology | 17.593 | 5.172 | 2.247 | 6.676 |  |
| Chronic Respiratory Pathology | 9.259 | 1.533 | 1.124 | 2.643 |  |
| Obesity | 21.296 | 3.065 | 2.247 | 5.702 |  |
| Chronic Kidney Disease | 0.000 | 0.192 | 0.000 | 0.139 |  |
| Diabetes | 9.259 | 4.789 | 2.247 | 5.146 |  |
| Immunosuppressive treatment | 0.926 | 0.383 | 0.000 | 0.417 |  |
| Other immunosuppression | 0.926 | 0.383 | 0.000 | 0.417 |  |
| Development of clinical signs | 88.889 | 2.49 | 10.112 | 16.412 |  |
| **Clinical signs developed** |  |  |  |  |  |
| Fever | 39.815 | 0.192 | 2.247 | 6.398 |  |
| Febrile non-febrile syndrome | 7.407 | 0.000 | 2.247 | 1.391 |  |
| Shivers | 21.296 | 0.000 | 0.000 | 3.199 |  |
| Cough | 50.000 | 0.766 | 2.247 | 8.345 |  |
| Sweaters | 12.037 | 0.000 | 1.124 | 1.947 |  |
| Dyspnea | 7.407 | 0.192 | 1.124 | 1.391 |  |
| Asthenia | 45.370 | 0.958 | 4.494 | 8.067 |  |
| Myalgia/curvatures | 11.111 | 0.000 | 2.247 | 1.947 |  |
| Diarrhoea | 4.630 | 0.000 | 2.247 | 0.974 |  |
| Headache | 37.037 | 0.575 | 1.124 | 6.120 |  |
| Alcohol consumption | 50.000 | 46.552 | 44.944 | 46.871 |  |
| Cigarette consumption | 6.481 | 4.789 | 1.124 | 4.590 |  |
| **Conditions of exposure to Covid-19** |  |  |  |  |  |
| Travel outside the DRC | 60.185 | 39.655 | 30.337 | 41.586 |  |
| Staying in a high-risk area | 63.889 | 42.337 | 53.933 | 47.010 |  |
| Positive Person Contact at Covid-19 | 29.630 | 23.755 | 13.483 | 23.366 |  |
| Symptomatic person contact | 25.000 | 9.770 | 41.573 | 15.994 |  |
| Personal contact of a hospital treating Covid-19 | 12.037 | 8.812 | 3.371 | 8.623 |  |
| **Types of places most frequented** |  |  |  |  |  |
| Church | 55.556 | 46.935 | 33.708 | 46.592 |  |
| Hospital | 13.889 | 6.322 | 1.124 | 6.815 |  |
| Bar | 24.074 | 20.307 | 10.112 | 19.611 |  |
| Place of work | 79.630 | 62.069 | 69.663 | 65.647 |  |
| Crossroads / Walk | 12.037 | 9.962 | 7.865 | 10.014 |  |
| Stadium / Playground | 7.407 | 4.215 | 3.371 | 4.59 |  |
| School / University | 5.556 | 4.215 | 5.618 | 4.59 |  |
| **Behaviour in the face of Covid-19** |  |  |  |  |  |
| None | 8.333 | 35.057 | 61.798 | 34.353 |  |
| Prayer | 37.963 | 31.992 | 24.719 | 31.989 |  |
| Self-medication | 77.778 | 21.456 | 15.73 | 29.207 |  |
| Self-isolation | 44.444 | 27.203 | 15.73 | 28.373 |  |
| Lifestyle change | 53.704 | 19.923 | 8.989 | 23.644 |  |
| Changing the feed mode | 33.333 | 9.195 | 3.371 | 12.1 |  |
| Barrier gestures |  |  |  |  |  |
| Wearing a mask | 97.222 | 95.594 | 92.135 | 95.41 |  |
| Regular hand washing | 95.370 | 94.253 | 92.045 | 94.15 |  |