# Suplementarny Materials

**Supplementary Table 1.** Headache phenotype in upper respiratory tract infections

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | **Diagnosis** | | | | **Test result** |
| **‘Common cold’**  ***n* = 64** | **Influenza**  ***n* = 26** | **COVID-19**  ***n* = 73** | **APVRS**  ***n* = 20** |
| **Unilateral** | NO | N | 61 | 24 | 68 | 16 | *χ2* = *5.179 df* = *3 p* = *0.159* |
| % | 95.3% | 92.3% | 93.2% | 80.0% |
| YES | N | 3 | 2 | 5 | 4 |
| % | 4.7% | 7.7% | 6.8% | 20.0% |
| **Intensity** | Mild | N | 14 | 4 | 6 | 1 | *χ2* = *9.714 df* = *6 p* = *0.137* |
| % | 21.9% | 15.4% | 8.7% | 5.0% |
| Moderate | N | 32 | 16 | 36 | 9 |
| % | 50.0% | 61.5% | 52.2% | 45.0% |
| Severe | N | 18 | 6 | 27 | 10 |
| % | 28.1% | 23.1% | 39.1% | 50.0% |
| **Character** | Pulsating / throbbing | N | 28 | 14 | 22 | 6 | *χ2* = *5.797 df* = *3 p* = *0.122* |
| % | 44.4% | 53.8% | 30.6% | 31.6% |
| Dull / pressure | N | 35 | 12 | 50 | 13 |
| % | 55.6% | 46.2% | 69.4% | 68.4% |
| **Nausea / vomiting** | NO | N | 92 | 30 | 77 | 27 | *χ2* = *12.323 df* = *3 p* = ***0.006*** |
| % | 89.3% | 83.3% | 72.0% | 90.0% |
| YES | N | 11 | 6 | 30 | 3 |
| % | 10.7% | 16.7% | 28.0% | 10.0% |
| **Photo- AND phonophobia** | NO | N | 102 | 34 | 102 | 30 | *χ2* = *4.355 df* = *3 p* = *0.226* |
| % | 99.0% | 94.4% | 95.3% | 100.0% |
| YES | N | 1 | 2 | 5 | 0 |
| % | 1.0% | 5.6% | 4.7% | 0.0% |
| **Osmophobia** | NO | N | 103 | 35 | 106 | 29 | *χ2* = *3.520 df* = *3 p* = *0.318* |
| % | 100.0% | 97.2% | 99.1% | 96.7% |
| YES | N | 0 | 1 | 1 | 1 |
| % | 0.0% | 2.8% | 0.9% | 3.3% |
| **Headache phenotype** | Migraine | N | 4 | 4 | 20 | 2 | *χ2* = *13.932*  *df* = *6*  *p* = ***0.030*** |
| % | 6.2% | 15.4% | 27.4% | 11.1% |
| TTH | N | 49 | 17 | 45 | 11 |
| % | 75.4% | 65.4% | 61.6% | 61.1% |
| Unclassifiable | N | 12 | 5 | 8 | 5 |
| % | 18.5% | 19.2% | 11.0% | 27.8% |
| TTH – tension-type headache; COVID-19 – coronavirus disease 2019; *χ2* – statistic test used; *df* – degrees of freedom; N – number of participants; *p* – statistical significance | | | | | | | |

**Supplementary Table 2.** Headache prevalence and phenotype in patients with prior COVID-19 immunization

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | **Prior COVID-19 immunisation** | | **Test result** |
| **NO**  ***n* = 81** | **YES**  ***n* = 26** |
| **Headache** | NO | N | 23 | 10 | *χ2* = *0.406 df* = *1 p* = *0.524* |
| % | 29.3% | 38.5% |
| YES | N | 58 | 16 |
| % | 70.7% | 61.5% |
| **Headache phenotype** | Migraine | N | 19 | 1 | *χ2* = *11.149 df* = *2 p* = ***0.004*** |
| % | 32.8% | 6.3% |
| TTH | N | 36 | 10 |
| % | 62.1% | 62.5% |
| Unclassifiable | N | 3 | 5 |
| % | 5.2% | 31.3% |
| COVID-19 – coronavirus disease 2019; TTH – tension-type headache; *χ2* – statistic test used ; *df* – degrees of freedom; N – number of participants; *p* – statistical significance | | | | | |

**Supplementary Table 3.** Association between headache phenotype and sinonasal symptoms in upper respiratory tract infections

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | **Sinonasal symptoms** | | **Test result** |
| **NO**  ***n* = 19** | **YES**  ***n* = 163** |
| **Headache phenotype** | Migraine | N | 8 | 22 | *χ2* = *10.726 df* = *2 p* = ***0.005*** |
| % | 42.1% | 13.5% |
| TTH | N | 10 | 112 |
| % | 52.6% | 68.7% |
| Unclassifiable | N | 1 | 29 |
| % | 5.3% | 17.8% |
| TTH – tension-type headache; *χ2* – statistic test used ; *df* – degrees of freedom; N – number of participants; *p* – statistical significance | | | | | |

**Supplementary Table 4.** Logistic regression analysis of headache predictors in upper respiratory tract infection

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dependent variable** | **Model** | | | | | **Regression coefficients** | | | | | |
| ***R2*** | ***χ2*** | ***df*** | ***p*** | | **Predictor** | ***B*** | ***W*** | ***p*** | | ***OR*** |
| Headache | 0.21 | 55.61 | 13 | <0.001 | \*\*\* | Constant term | -1.66 | -2.02 | 0.044 | \* | 0.19 |
| Age | 0.01 | 1.10 | 0.272 |  | 1.01 |
| Gender | 0.05 | 0.13 | 0.893 |  | 1.05 |
| Preex. migraine | 0.82 | 1.68 | 0.092 |  | 2.27 |
| Preex. TTH | 0.54 | 1.20 | 0.229 |  | 1.72 |
| Non-nasal CAS | 1.31 | 2.74 | 0.006 | \*\* | 3.71 |
| Cough | -0.79 | -1.60 | 0.110 |  | 0.45 |
| Fever | 1.07 | 2.85 | 0.004 | \*\* | 2.90 |
| Facial tenderness  on palpation | 1.68 | 2.51 | 0.012 | \* | 5.38 |
| Sinonasal symptoms | 2.37 | 3.86 | < 0.001 | \*\*\* | 10.70 |
| *R2* – coefficient of determination; *χ2* – test statistics; *df* – degrees of freedom; *B* – regression coefficient; *W* – test statistics; *p* – statistical significance; *OR* – odds raio; Preex - preexisting. TTH – tension-type headache; CAS – cranial autonomic symptoms; \* *p* < 0.05; \*\* *p* < 0.01; \*\*\* *p* < 0.001 | | | | | | | | | | | |