Supplemental data to the article: **‘Incidence and impact of COVID-19 in Multiple Sclerosis: a survey from a Barcelona MSs Unit”**

**e-Results**

1. **Distribution of confirmed and suspected COVID-19 cases in the MS cohort, Barcelona city (BCN) and the area covered by Hospital Clinic (BCN-A)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | MS | Cohort |  | BCN |  |  | BCN-A |  |  |
| Age | Sex | # | Confirm | Suspect | Population | Confirm | Suspect | Population | Confirm | Suspect |
| 18-34 | F | 24 | 0 | 4 | 172926 | 1466 | 8971 | 54383 | 408 | 2790 |
|  | M | 19 | 1 | 2 | 168294 | 887 | 4952 | 52030 | 239 | 1609 |
| 35-44 | F | 87 | 0 | 15 | 135178 | 1393 | 8102 | 40854 | 307 | 2284 |
|  | M | 30 | 0 | 4 | 136294 | 956 | 4340 | 40021 | 250 | 1356 |
| 45-54 | F | 90 | 2 | 9 | 127508 | 1581 | 8060 | 38993 | 356 | 2218 |
|  | M | 34 | 0 | 5 | 123770 | 1200 | 4637 | 36520 | 293 | 1375 |
| 55-64 | F | 47 | 0 | 4 | 114342 | 1595 | 7452 | 37388 | 417 | 2345 |
|  | M | 30 | 2 | 0 | 98956 | 1325 | 4735 | 31007 | 385 | 1532 |
| >65 | F | 25 | 0 | 0 | 217758 | 5231 | 15879 | 70208 | 1261 | 4579 |
|  | M | 21 | 0 | 3 | 146670 | 3441 | 10253 | 47331 | 872 | 3084 |

Population Confirmed cases Suspected cases

BCN: 1441696 19,075 77,381

BCN-A: 448735 4,788 23,172

There were no significant differences in confirmed cases:

BCN observed: 5, expected: 5.0; BCN-A observed: 5, expected: 3.9

There were significant differences in suspected cases:

BCN observed: 46, expected: 22.7; BCN-A observed: 46, expected 21.5 *p<* 0.001

There were significant differences in COVID-19 cases (confirmed and suspected):

BCN observed: 51, expected: 27.7; BCN-A: observed: 51, expected: 25.5 *p<* 0.001

1. **Mortality distribution in BCN and BCN-A**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | BCN |  |  |  |
| Deaths | Confirmed | Suspected | Population | Confirmed | Suspected |
| 4243 | 2093 | 2150 | 96456 | 19075 | 77381 |
|  |  | BCN-A |  |  |  |
| 1211 | 557 | 654 | 27960 | 4788 | 23172 |

**Glossary:**

RRMS = remitting-relapsing MS; SPMS = secondary progressive MS; PPMS = primary progressive MS; CIS = clinically isolated multiple sclerosis; EDSS = expanded Disability Severity Score