

## Supplementary Information

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| <b>Complete List of Authors</b>   | 2  |
| <b>Table S1.</b> Nontraumatic SAH admissions overall and monthly volumes before and during the COVID-19 pandemic. | 15 |

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| <b>Table S1. Nontraumatic SAH admissions overall and monthly volumes before and during the COVID-19 pandemic.</b> |                |       |       |                      |                   |                 |                    |                 |              |
|---|----------------|-------|-------|----------------------|-------------------|-----------------|--------------------|-----------------|--------------|
|   | Overall volume |       |       |                      |                   | Monthly volume* |                    |                 |              |
|   | N              | n1    | n2    | Change               | P                 | N               | Before COVID-19    | During COVID-19 | P            |
|   |                |       |       | % (95% CI)           |                   |                 | Adjusted Mean (SE) |                 |              |
| <b>Overall</b>  | 162            | 8,578 | 8,223 | -4.1 (-4.6 - -3.7)   | <b>0.006</b>      | 169             | 5.30 (0.89)        | 5.01 (0.89)     | <b>0.003</b> |
| <b>Hospital Nontraumatic SAH volume<sup>†</sup></b>   |                |       |       |                      |                   |                 |                    |                 |              |
| <b>Low</b>  | 53             | 505   | 551   | 9.1 (6.9 - 11.9)     | 0.157             | 55              | 0.71 (0.09)        | 0.76 (0.10)     | 0.345        |
| <b>Intermediate</b>   | 54             | 2,012 | 1,959 | -2.6 (-3.4 - -2.0)   | 0.40              | 57              | 2.97 (0.20)        | 2.86 (0.22)     | 0.394        |
| <b>High</b>   | 55             | 6,241 | 5,713 | -8.5 (-9.2 - -7.8)   | <b>&lt;0.0001</b> | 57              | 10.17 (1.65)       | 9.34 (1.66)     | <b>0.002</b> |
| <b>Hospital nontraumatic SAH volume stratified by Hospital COVID-19 volume<sup>‡</sup></b>                        |                |       |       |                      |                   |                 |                    |                 |              |
| <b>Low</b>  | 50             | 2,199 | 2,208 | 0.41 (0.22 - 0.78)   | 0.892             | 51              | 4.37 (1.07)        | 4.38 (1.07)     | 0.956        |
| <b>Intermediate</b>   | 47             | 1,989 | 1,884 | -5.3 (-6.4 - -4.4)   | 0.092             | 49              | 2.79 (0.83)        | 2.59 (0.81)     | 0.114        |
| <b>High</b>   | 44             | 3,430 | 3,063 | -10.7 (-11.8 - -9.7) | <b>&lt;0.0001</b> | 46              | 6.0 (1.62)         | 5.29 (1.59)     | 0.011        |

**Abbreviations:** SAH=Subarachnoid Hemorrhage; N=number of hospitals; n1=number of admissions during twelve months before COVID-19 pandemic; n2= number of admissions during twelve months of COVID-19 pandemic; CI=confidence interval; SE=standard error

\*The monthly volume analysis is adjusted for the date of peak COVID-19 volume for each country, the start date of the second wave, and the continent.

<sup>†</sup>P: Low vs Intermediate=N/A; Low vs High=N/A; Intermediate vs High=<0.0001

<sup>‡</sup>P: Low vs Intermediate=N/A; Low vs High=N/A; Intermediate vs High=<0.0001

