Supplementary Table 1: Top 10 total MPX cases, deaths, and obesity rates of those countries.

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| Location of highest MPX cases (Top 10) | Total cases (30 April 2023) | Obesity rate (%) |
| United States (US) | 30154 | 36.20 |
| Brazil | 10915 | 22.10 |
| Spain | 7549 | 23.80 |
| France | 4144 | 21.60 |
| Colombia | 4090 | 22.30 |
| Mexico | 3965 | 28.90 |
| Peru | 3800 | 19.47 |
| United Kingdom | 3741 | 27.80 |
| Germany | 3691 | 22.30 |
| Canada | 1484 | 29.40 |

|  |  |  |
| --- | --- | --- |
| Location of highest MPX deaths (Top 10) | Total cases (30 April 2023) | Obesity rate (%) |
| United States (US) | 42 | 36.20 |
| Peru | 20 | 19.47 |
| Brazil | 16 | 22.10 |
| Mexico | 14 | 28.90 |
| Nigeria | 9 | 8.90 |
| Ghana | 4 | 10.90 |
| Cameroon | 3 | 11.40 |
| Ecuador | 3 | 19.90 |
| Spain | 3 | 23.80 |
| Argentina | 2 | 28.30 |

Supplementary Table 2: Relation between the top 10 MPX cases and deaths in countries and the world with the obesity rate

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Top 10 | | | | | | World (103 countries) | | | | | |
|  | Cases | | | Deaths | | | Cases | | | Deaths | | |
|  | Estimate | 95% CI | P-value | Estimate | 95% CI | P-value | Estimate | 95% CI | P-value | Estimate | 95% CI | P-value |
| Total cases | 0.05% | 0.03% to 0.09% | 0.069 | 0.41 | 0.10 to 0.81 | 0.075 | 0.06% | 0.01% to 0.10% | 0.010 | 0.41 | 0.04 to 0.78 | 0.044 |
|  | Correlation Coefficient, (r) = 0.596 | | R-squared = 35.47% | r = 0.585 | | R-squared = 34.26% | r = 0.278 | | R-squared = 7.74% | Correlation Coefficient, r = 0.480 | | R-squared = 23.02% |