|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table 1. Expected mortality of COVID-19 in municipalities without COVID-19 deaths registered in symptomatic cases as for 20th of June, 2020. Characteristics of municipalities are displayed in quintiles of the distribution within 2457 municipalities of the country. | | | | | | | | | | | | |
| State | Municipality | Expected COVID-10 mortality rate | Diabetes Mortality Rate | State diabetes prevalence | State Obesity Prevalence | Hypertension Mortality Rate | State hypertension prevalence | Indigenous population | Population density | Economically active | Hospitals | Hope Municipalities |
|  |  | Rate (95% CI) | Rate | % | % | Rate | % | % | Rate | % | Yes/No | Yes/No |
| Hidalgo | Tetepango | 27.6 (20.5, 37.3) | 263.9 | 12.9 | 31.2 | 12.6 | 17.9 | 0.3 | 258.7 | 46.6 | Yes | No |
| Yucatán | Muxupip | 21.6 (15.6, 29.7) | 189.1 | 10.7 | 44.4 | 0 | 21.7 | 41 | 39.6 | 47.4 | No | No |
| Yucatán | Akil | 19.5 (14, 27.2) | 85.2 | 10.7 | 44.4 | 0 | 21.7 | 63.2 | 147.9 | 49.4 | No | No |
| Hidalgo | Jaltocán | 18.8 (13.4, 26.5) | 190.6 | 12.9 | 31.2 | 0 | 17.9 | 88.8 | 307.8 | 41.2 | No | No |
| Morelos | Temoac | 17.5 (13, 23.5) | 174 | 12 | 33.5 | 9.7 | 17.5 | 0.6 | 427.2 | 49.3 | No | No |
| Yucatán | Sinanché | 17.4 (12, 25.1) | 215.2 | 10.7 | 44.4 | 43 | 21.7 | 28.4 | 23 | 43.2 | No | No |
| Oaxaca | Santa Inés Yatzeche | 17.3 (12.4, 24.1) | 311.5 | 10.5 | 30.4 | 0 | 17.1 | 94 | 395 | 32.6 | No | No |
| Yucatán | Tzucacab | 17.2 (12.2, 24.3) | 196.1 | 10.7 | 44.4 | 32.7 | 21.7 | 57.7 | 19.3 | 43.3 | No | No |
| Yucatán | Dzoncauich | 17.1 (11.9, 24.6) | 154.4 | 10.7 | 44.4 | 154.4 | 21.7 | 57.6 | 19.6 | 33.5 | No | Yes |
| Yucatán | Tahmek | 17.1 (11.9, 24.6) | 144 | 10.7 | 44.4 | 36 | 21.7 | 59.7 | 35.5 | 48.5 | No | No |
| Yucatán | Cansahcab | 17.1 (11.9, 24.6) | 143.9 | 10.7 | 44.4 | 57.6 | 21.7 | 25.4 | 35.6 | 44.5 | No | No |
| Yucatán | Dzidzantún | 17 (11.9, 24.3) | 146.2 | 10.7 | 44.4 | 0 | 21.7 | 8.7 | 39.4 | 48.4 | No | No |
| Yucatán | Mama | 16.8 (12.1, 23.4) | 142.1 | 10.7 | 44.4 | 0 | 21.7 | 76.1 | 32 | 49.2 | No | No |
| Oaxaca | San Mateo Yoloxochitlán | 16.8 (12.3, 23) | 190.1 | 10.5 | 30.4 | 0 | 17.1 | 77 | 507.6 | 40.3 | No | No |
| Yucatán | Sacalum | 16.3 (11.9, 22.3) | 121.5 | 10.7 | 44.4 | 0 | 21.7 | 61.2 | 24.2 | 51.3 | No | No |
| Oaxaca | Santa Lucía Ocotlán | 16.3 (12.1, 21.9) | 233.2 | 10.5 | 30.4 | 0 | 17.1 | 85.6 | 330.3 | 37.8 | No | Yes |
| Oaxaca | Chahuites | 16.3 (12.1, 21.9) | 212.1 | 10.5 | 30.4 | 0 | 17.1 | 5.6 | 503.4 | 47.9 | No | No |
| Yucatán | Tizimín | 16.1 (11.9, 21.9) | 108.1 | 10.7 | 44.4 | 4 | 21.7 | 42.6 | 20 | 46 | Yes | No |
| Yucatán | Telchac Puerto | 15.8 (11.3, 22.1) | 544.3 | 10.7 | 44.4 | 0 | 21.7 | 11.4 | 27.3 | 44.6 | No | No |
| Oaxaca | Santiago Apóstol | 15.8 (11.6, 21.6) | 183.6 | 10.5 | 30.4 | 0 | 17.1 | 75.4 | 226.9 | 40.7 | No | No |
| Guanajuato | Uriangato | 15.7 (11.9, 20.8) | 120.7 | 9.9 | 29.9 | 2.3 | 18.4 | 0.2 | 539.5 | 50.2 | Yes | No |
| México | Chiconcuac | 15.0 (11.2, 20.0) | 254.2 | 9 | 32.7 | 0 | 15.5 | 1.8 | 3734.4 | 53.1 | Yes | No |
| Yucatán | Yaxkukul | 14.8 (10.7, 20.5) | 269.5 | 10.7 | 44.4 | 0 | 21.7 | 11.7 | 62.8 | 50.1 | No | No |
| Guanajuato | Pueblo Nuevo | 14.7 (10.9, 20) | 197.8 | 9.9 | 29.9 | 12.4 | 18.4 | 0.2 | 198.3 | 40.3 | Yes | No |
| Coahuila | Allende | 14.7 (10.7, 20.3) | 163.3 | 12.4 | 38.6 | 13.1 | 22.4 | 0.2 | 90 | 46.5 | Yes | No |
| Veracruz | Oluta | 14.6 (10.7, 20) | 216.5 | 11.9 | 39.3 | 0 | 23.6 | 0.9 | 214.2 | 50.4 | Yes | No |
| Oaxaca | Ciénega de Zimatlán | 14.5 (10.4, 20.3) | 91.9 | 10.5 | 30.4 | 0 | 17.1 | 0.6 | 287.5 | 37.4 | No | No |
| Oaxaca | Asunción Ocotlán | 14.4 (10, 20.8) | 110.4 | 10.5 | 30.4 | 55.2 | 17.1 | 89.8 | 564.2 | 44.9 | No | Yes |
| Yucatán | Telchac Pueblo | 14.4 (9.7, 21.3) | 174.7 | 10.7 | 44.4 | 34.9 | 21.7 | 13.9 | 63.9 | 49.4 | No | No |
| Yucatán | Tepakán | 14.3 (9.9, 20.5) | 185 | 10.7 | 44.4 | 0 | 21.7 | 67.4 | 19.6 | 40.4 | No | No |
| Yucatán | Teya | 14.2 (9.8, 20.5) | 71.2 | 10.7 | 44.4 | 0 | 21.7 | 60.8 | 24.6 | 42.8 | No | No |
| Puebla | Rafael Lara Grajales | 14.1 (10.8, 18.5) | 292.6 | 9 | 32.7 | 0 | 15.4 | 0.3 | 3445 | 45.9 | Yes | No |
| Yucatán | Tetiz | 14.1 (10.2, 19.5) | 209.6 | 10.7 | 44.4 | 0 | 21.7 | 41 | 15.2 | 52.8 | No | No |
| SLP | Axtla de Terrazas | 13.9 (10, 19.5) | 110.3 | 10.8 | 33 | 17 | 19.2 | 55.2 | 196.9 | 40.5 | Yes | No |
| Puebla | Teteles de Avila Castillo | 13.7 (10.4, 18) | 152.6 | 9 | 32.7 | 0 | 15.4 | 17.2 | 600.1 | 46.2 | No | No |
| Oaxaca | Reyes Etla | 13.6 (9.8, 18.7) | 74.3 | 10.5 | 30.4 | 37.2 | 17.1 | 1.6 | 313.9 | 57.1 | No | No |
| Veracruz | Atoyac | 13.3 (9.6, 18.5) | 191.6 | 11.9 | 39.3 | 0 | 23.6 | 0.5 | 194.5 | 44.6 | Yes | No |
| México | Almoloya del Río | 13.3 (10.1, 17.5) | 232.4 | 9 | 32.7 | 0 | 15.5 | 0.6 | 1214.6 | 52.9 | No | No |
| Yucatán | Dzán | 13.2 (9.2, 19.1) | 56.8 | 10.7 | 44.4 | 28.4 | 21.7 | 73.3 | 67 | 48.1 | No | No |
| Puebla | Juan C. Bonilla | 13.1 (9.6, 17.8) | 190.4 | 9 | 32.7 | 7.6 | 15.4 | 1.1 | 953 | 47.7 | No | No |
| Tlaxcala | San Damián Texóloc | 13.1 (9.8, 17.3) | 202.2 | 9.3 | 32.1 | 0 | 13 | 0.2 | 545.4 | 49.5 | No | No |
| Puebla | Mixtla | 13 (9.8, 17.2) | 191.1 | 9 | 32.7 | 0 | 15.4 | 6 | 245.3 | 37.6 | No | No |
| Veracruz | Tomatlán | 12.9 (9.4, 17.6) | 163.9 | 11.9 | 39.3 | 41 | 23.6 | 0.3 | 365.8 | 47.1 | No | No |
| Chiapas | Tapilula | 12.9 (9.5, 17.4) | 227 | 7.8 | 29 | 0 | 16.2 | 8.8 | 302.6 | 44.7 | Yes | Yes |
| Oaxaca | San Agustín Yatareni | 12.7 (9.4, 17.2) | 171.8 | 10.5 | 30.4 | 34.4 | 17.1 | 14.5 | 677.2 | 48.5 | No | No |
| Puebla | Tlanepantla | 12.7 (9.6, 16.8) | 431.8 | 9 | 32.7 | 0 | 15.4 | 1.9 | 332.2 | 48.2 | No | No |
| Oaxaca | San Pedro Cajonos | 12.7 (8.9, 18.1) | 0 | 10.5 | 30.4 | 0 | 17.1 | 88.9 | 387.5 | 44.2 | No | Yes |
| Oaxaca | Natividad | 12.7 (8.9, 18.1) | 0 | 10.5 | 30.4 | 0 | 17.1 | 27.1 | 214.9 | 40.6 | No | Yes |
| Veracruz | Coscomatepec | 12.7 (9.4, 17) | 223.6 | 11.9 | 39.3 | 15.5 | 23.6 | 0.2 | 369.9 | 44.5 | Yes | No |
| Puebla | San Salvador Huixcolotla | 12.4 (9.2, 16.7) | 217.9 | 9 | 32.7 | 0 | 15.4 | 0.4 | 621.5 | 48.7 | Yes | No |
| Yucatán | Kinchil | 12.3 (8.7, 17.2) | 63.5 | 10.7 | 44.4 | 0 | 21.7 | 36.2 | 20.2 | 50.5 | No | No |
| Puebla | Tepatlaxco de Hidalgo | 12.1 (9, 16.3) | 427.1 | 9 | 32.7 | 18.6 | 15.4 | 11.5 | 284.9 | 46.9 | No | No |
| Puebla | General Felipe Ángeles | 12.1 (8.9, 16.4) | 209.4 | 9 | 32.7 | 40.3 | 15.4 | 0.6 | 224.1 | 40 | Yes | No |
| Yucatán | Yobaín | 12.1 (8.5, 17.2) | 61.7 | 10.7 | 44.4 | 0 | 21.7 | 21.3 | 16.9 | 44.1 | No | No |
| Veracruz | Zaragoza | 12.1 (8.7, 16.6) | 204 | 11.9 | 39.3 | 29.1 | 23.6 | 35.3 | 523.2 | 44.2 | No | No |
| Yucatán | Dzemul | 12 (8.4, 17.1) | 107.9 | 10.7 | 44.4 | 0 | 21.7 | 23.5 | 21 | 49.6 | No | No |
| Yucatán | Suma | 11.9 (8.2, 17.4) | 0 | 10.7 | 44.4 | 0 | 21.7 | 35.7 | 20 | 48 | No | No |
| Yucatán | Bokobá | 11.9 (8.3, 17) | 0 | 10.7 | 44.4 | 0 | 21.7 | 40.6 | 30.6 | 53 | No | No |
| Veracruz | Banderilla | 11.9 (8.7, 16.2) | 131.6 | 11.9 | 39.3 | 0 | 23.6 | 0.4 | 1253.6 | 53 | No | No |
| Yucatán | Panabá | 11.8 (8.3, 16.8) | 148.3 | 10.7 | 44.4 | 0 | 21.7 | 26.1 | 11.7 | 45.8 | No | No |
| Yucatán | Tekit | 11.8 (8.4, 16.6) | 43.7 | 10.7 | 44.4 | 0 | 21.7 | 52.1 | 36.4 | 53 | No | No |
| Yucatán | Chumayel | 11.8 (8.5, 16.2) | 90.7 | 10.7 | 44.4 | 0 | 21.7 | 89.9 | 39.5 | 59.9 | No | No |
| Yucatán | Chocholá | 11.6 (8.2, 16.5) | 29.4 | 10.7 | 44.4 | 0 | 21.7 | 31.6 | 16 | 48 | No | No |
| Puebla | Tlaltenango | 11.6 (8.8, 15.3) | 231.6 | 9 | 32.7 | 0 | 15.4 | 0.5 | 331.7 | 42.1 | No | No |
| Oaxaca | San Pedro Mártir | 11.6 (7.9, 17) | 173.6 | 10.5 | 30.4 | 0 | 17.1 | 54.2 | 223.5 | 31.7 | No | Yes |
| Guanajuato | Cuerámaro | 11.6 (8.7, 15.4) | 173.1 | 9.9 | 29.9 | 5.4 | 18.4 | 0.1 | 108.8 | 42.4 | Yes | No |
| Tlaxcala | Tocatlán | 11.5 (8.8, 15.1) | 130.5 | 9.3 | 32.1 | 0 | 13 | 0.3 | 410 | 46 | No | No |
| Yucatán | Xocchel | 11.5 (8.4, 15.6) | 125.8 | 10.7 | 44.4 | 0 | 21.7 | 53.1 | 31.4 | 46.1 | No | No |
| Yucatán | Buctzotz | 11.3 (8, 15.9) | 130.7 | 10.7 | 44.4 | 0 | 21.7 | 28.7 | 13.6 | 48.5 | No | No |
| Tlaxcala | Benito Juárez | 11.2 (8.3, 15.1) | 156.9 | 9.3 | 32.1 | 26.2 | 13 | 0.1 | 235.8 | 46.9 | No | No |
| Michoacán | Huandacareo | 11.2 (7.9, 15.8) | 193.7 | 9.9 | 31.6 | 12.1 | 19.2 | 0.3 | 121.8 | 42 | Yes | No |
| Yucatán | Dzilam de Bravo | 11.1 (7.6, 16) | 158.7 | 10.7 | 44.4 | 0 | 21.7 | 4.7 | 6.3 | 37.6 | No | No |
| Veracruz | Cosautlán de Carvajal | 11 (8.1, 15) | 176.3 | 11.9 | 39.3 | 0 | 23.6 | 0.1 | 213.5 | 43.9 | No | No |
| Veracruz | Jilotepec | 10.9 (8.1, 14.6) | 169.6 | 11.9 | 39.3 | 8.9 | 23.6 | 0.3 | 296.4 | 47.9 | No | No |
| Oaxaca | Guelatao de Juárez | 10.8 (8.1, 14.4) | 251.3 | 10.5 | 30.4 | 0 | 17.1 | 15.4 | 117.7 | 52.5 | No | No |
| Yucatán | Santa Elena | 10.7 (7.3, 15.6) | 153.2 | 10.7 | 44.4 | 38.3 | 21.7 | 83.4 | 7.9 | 43.7 | No | No |
| Zacatecas | Juchipila | 10.6 (7.3, 15.4) | 238 | 10.9 | 33.5 | 11.3 | 18.9 | 0.2 | 37.3 | 39.5 | Yes | No |
| Veracruz | Naranjal | 10.6 (7.7, 14.6) | 240.5 | 11.9 | 39.3 | 0 | 23.6 | 6.5 | 245.2 | 43.4 | No | No |
| Yucatán | Mayapán | 10.5 (7.7, 14.4) | 98.8 | 10.7 | 44.4 | 0 | 21.7 | 98.3 | 39.5 | 45 | No | No |
| Oaxaca | Santa María la Asunción | 10.4 (7.4, 14.8) | 148.1 | 10.5 | 30.4 | 49.4 | 17.1 | 97.4 | 426.5 | 36.6 | No | No |
| Veracruz | Huiloapan de Cuauhtémoc | 10.4 (7.6, 14.2) | 99.8 | 11.9 | 39.3 | 20 | 23.6 | 3 | 385.7 | 40.5 | No | No |
| Zacatecas | Juan Aldama | 10.4 (7.2, 14.9) | 165 | 10.9 | 33.5 | 7.2 | 18.9 | 0.3 | 35 | 42.2 | Yes | No |
| Veracruz | Las Vigas de Ramírez | 10.4 (7.7, 13.9) | 75 | 11.9 | 39.3 | 0 | 23.6 | 0.1 | 197.7 | 42.1 | No | No |
| Michoacán | Pajacuarán | 10.3 (7.7, 13.9) | 211.8 | 9.9 | 31.6 | 24.4 | 19.2 | 0.2 | 114.1 | 44.6 | Yes | No |
| Yucatán | Dzitás | 10.3 (7, 15.2) | 358.7 | 10.7 | 44.4 | 39.9 | 21.7 | 53.4 | 12.2 | 43.9 | Yes | No |
| Michoacán | Salvador Escalante | 10.3 (7.5, 14.1) | 150.4 | 9.9 | 31.6 | 33.4 | 19.2 | 0.2 | 101.6 | 40.9 | Yes | No |
| Yucatán | Ucú | 10.2 (7.4, 14.1) | 117.1 | 10.7 | 44.4 | 0 | 21.7 | 25.7 | 28.1 | 53.7 | No | No |
| Puebla | Caxhuacan | 10.2 (7.4, 14.1) | 121.5 | 9 | 32.7 | 40.5 | 15.4 | 87 | 260 | 38.1 | No | No |
| Jalisco | Ahualulco de Mercado | 10.1 (7.3, 14) | 185.5 | 7.6 | 35.2 | 19.2 | 14 | 0.1 | 85.3 | 53 | No | No |
| Yucatán | Uayma | 10.1 (7.3, 14.1) | 78.4 | 10.7 | 44.4 | 39.2 | 21.7 | 91.5 | 21.6 | 43.3 | No | No |
| Yucatán | Sudzal | 10.1 (7.1, 14.2) | 87.5 | 10.7 | 44.4 | 0 | 21.7 | 59.3 | 7.7 | 43.1 | No | No |
| Puebla | Pahuatlán | 10.1 (7.2, 14.2) | 130 | 9 | 32.7 | 30.6 | 15.4 | 51.8 | 223.5 | 45.1 | Yes | No |
| Yucatán | Kantunil | 10 (7.3, 13.9) | 111.1 | 10.7 | 44.4 | 0 | 21.7 | 42.8 | 27.3 | 36.9 | No | No |
| Sonora | Huásabas | 10 (6.7, 15) | 148.4 | 11.3 | 44 | 0 | 24.6 | 0 | 1.1 | 44.2 | No | Yes |
| Oaxaca | San Andrés Zabache | 10 (7, 14.2) | 418.4 | 10.5 | 30.4 | 209.2 | 17.1 | 13.2 | 104.7 | 23.2 | No | Yes |
| Oaxaca | San Pedro Huilotepec | 10 (7.4, 13.5) | 142.7 | 10.5 | 30.4 | 0 | 17.1 | 54.1 | 118.7 | 46.1 | No | No |
| Puebla | Ixtepec | 9.9 (7.2, 13.8) | 92.5 | 9 | 32.7 | 0 | 15.4 | 95.9 | 355 | 38.3 | Yes | No |
| Michoacán | Purépero | 9.9 (7.5, 13.2) | 204.1 | 9.9 | 31.6 | 9.3 | 19.2 | 0.4 | 79.2 | 46.9 | Yes | No |
| Puebla | Ayotoxco de Guerrero | 9.9 (7.5, 13.2) | 200 | 9 | 32.7 | 0 | 15.4 | 27.2 | 80.2 | 43.5 | Yes | No |
| Yucatán | Cuzamá | 9.9 (7.1, 13.8) | 56.4 | 10.7 | 44.4 | 0 | 21.7 | 59.9 | 55.4 | 50.3 | No | No |
| Oaxaca | San Blas Atempa | 9.9 (7.2, 13.6) | 508.4 | 10.5 | 30.4 | 8.3 | 17.1 | 87.7 | 88.4 | 50.1 | No | No |
| Oaxaca | Reforma de Pineda | 9.9 (6.9, 14.1) | 146.6 | 10.5 | 30.4 | 97.8 | 17.1 | 3.4 | 81.6 | 42.4 | No | Yes |
| Oaxaca | San Pedro Comitancillo | 9.9 (6.9, 14.1) | 162.2 | 10.5 | 30.4 | 97.3 | 17.1 | 49.4 | 90.5 | 44.1 | No | No |
| Tlaxcala | Tetlatlahuca | 9.7 (7.2, 13.2) | 134.9 | 9.3 | 32.1 | 10.4 | 13 | 0.2 | 513.2 | 48.1 | Yes | No |
| Oaxaca | San Pedro Ixcatlán | 9.7 (7.1, 13.1) | 147.7 | 10.5 | 30.4 | 0 | 17.1 | 89.6 | 114.4 | 35.6 | No | No |
| Yucatán | Mocochá | 9.6 (7, 13.2) | 83.4 | 10.7 | 44.4 | 0 | 21.7 | 13.6 | 68.1 | 52.8 | No | No |
| Yucatán | Sucilá | 9.6 (6.7, 13.8) | 252.3 | 10.7 | 44.4 | 0 | 21.7 | 47.7 | 12.8 | 49.4 | No | No |
| Sonora | Trincheras | 9.6 (6.4, 14.3) | 169.1 | 11.3 | 44 | 169.1 | 24.6 | 0.1 | 0.5 | 48.1 | No | No |
| Guanajuato | Tarandacuao | 9.6 (7.1, 13) | 191.5 | 9.9 | 29.9 | 23.9 | 18.4 | 0.1 | 101.5 | 43.3 | Yes | No |
| Yucatán | Cenotillo | 9.5 (6.4, 14) | 141.6 | 10.7 | 44.4 | 70.8 | 21.7 | 37.3 | 7.2 | 42.4 | No | No |
| Sonora | Oquitoa | 9.4 (6.3, 14.2) | 1278 | 11.3 | 44 | 319.5 | 24.6 | 0.7 | 0.4 | 42.2 | No | No |
| Yucatán | Ixil | 9.4 (6.7, 13.2) | 0 | 10.7 | 44.4 | 0 | 21.7 | 15.4 | 29.8 | 56.2 | No | No |
| Yucatán | San Felipe | 9.4 (6.6, 13.4) | 71.9 | 10.7 | 44.4 | 0 | 21.7 | 8.4 | 4.3 | 49.7 | No | No |
| Veracruz | Rafael Lucio | 9.4 (7, 12.7) | 118.3 | 11.9 | 39.3 | 19.7 | 23.6 | 0.2 | 700.3 | 52.2 | No | No |
| Yucatán | Temax | 9.4 (6.7, 13.2) | 178.6 | 10.7 | 44.4 | 39.7 | 21.7 | 29 | 21.4 | 43.9 | No | No |
| Michoacán | Nahuatzen | 9.4 (7, 12.6) | 113.3 | 9.9 | 31.6 | 5.7 | 19.2 | 40.9 | 92.3 | 37.6 | Yes | No |
| Veracruz | Rafael Delgado | 9.4 (7, 12.5) | 143.3 | 11.9 | 39.3 | 7.2 | 23.6 | 49.8 | 874.1 | 47.8 | No | No |
| Puebla | Tepeyahualco de Cuauhtémoc | 9.3 (6.9, 12.6) | 84 | 9 | 32.7 | 0 | 15.4 | 0.7 | 226 | 48.1 | No | No |
| Oaxaca | Santa María Xadani | 9.3 (6.8, 12.6) | 159.4 | 10.5 | 30.4 | 19.9 | 17.1 | 96.9 | 102.2 | 52.3 | No | No |
| Oaxaca | San Lorenzo Cuaunecuiltitla | 9.3 (6.7, 12.7) | 211.9 | 10.5 | 30.4 | 211.9 | 17.1 | 93.5 | 88 | 32.4 | No | No |
| Yucatán | Dzilam González | 9.2 (6.4, 13.3) | 180.1 | 10.7 | 44.4 | 22.5 | 21.7 | 17.8 | 12.1 | 44.6 | No | No |
| Guerrero | Cuajinicuilapa | 9.2 (6.7, 12.8) | 112.4 | 11.1 | 34.1 | 0 | 17.9 | 5.7 | 43.2 | 45.4 | Yes | Yes |
| Sonora | Benjamín Hill | 9.2 (6.3, 13.6) | 136.4 | 11.3 | 44 | 27.3 | 24.6 | 0.3 | 3.7 | 40.9 | No | No |
| Veracruz | Tlilapan | 9.2 (6.7, 12.7) | 278.9 | 11.9 | 39.3 | 0 | 23.6 | 38 | 469 | 46.4 | No | No |
| Tlaxcala | Cuaxomulco | 9.2 (6.7, 12.6) | 112.6 | 9.3 | 32.1 | 28.2 | 13 | 1.1 | 316.3 | 46.4 | No | No |
| Yucatán | Sotuta | 9.2 (6.5, 13) | 53 | 10.7 | 44.4 | 0 | 21.7 | 56.3 | 16.3 | 46.4 | No | No |
| SLP | Tanquián de Escobedo | 9.2 (6.6, 12.6) | 89.4 | 10.8 | 33 | 0 | 19.2 | 17.3 | 105.4 | 43.3 | No | No |
| Guanajuato | Apaseo el Alto | 9.2 (6.9, 12.2) | 121.5 | 9.9 | 29.9 | 9.2 | 18.4 | 0.2 | 183.1 | 45.7 | Yes | No |
| Sonora | Cumpas | 9.1 (6.1, 13.7) | 86.9 | 11.3 | 44 | 43.4 | 24.6 | 0 | 3 | 41.7 | No | No |
| Oaxaca | San Nicolás Hidalgo | 9 (6.4, 12.8) | 163.4 | 10.5 | 30.4 | 0 | 17.1 | 0.1 | 85.9 | 24.2 | No | Yes |
| Veracruz | Coetzala | 9 (6.6, 12.3) | 139.2 | 11.9 | 39.3 | 0 | 23.6 | 35.4 | 236.9 | 40.4 | No | No |
| Oaxaca | Santa Cruz Papalutla | 8.9 (6.6, 12.1) | 201.6 | 10.5 | 30.4 | 0 | 17.1 | 35.6 | 144 | 50.2 | No | Yes |
| Oaxaca | San Jerónimo Tecóatl | 8.9 (6.6, 12.1) | 195.3 | 10.5 | 30.4 | 0 | 17.1 | 78.8 | 89.2 | 41.3 | No | No |
| México | Chiautla | 8.9 (6.6, 11.9) | 263.1 | 9 | 32.7 | 0 | 15.5 | 0.8 | 1453.6 | 50.1 | No | No |
| Michoacán | Cherán | 8.9 (6.7, 11.7) | 144.2 | 9.9 | 31.6 | 8.5 | 19.2 | 26.8 | 85.8 | 47.9 | Yes | No |
| Michoacán | Quiroga | 8.8 (6.7, 11.7) | 120.4 | 9.9 | 31.6 | 5.5 | 19.2 | 31.9 | 130.6 | 53.1 | Yes | No |
| Veracruz | Espinal | 8.8 (6.6, 11.7) | 175.9 | 11.9 | 39.3 | 5.7 | 23.6 | 39 | 113.3 | 38.9 | Yes | No |
| Oaxaca | San Miguel Ejutla | 8.8 (6.5, 12) | 155 | 10.5 | 30.4 | 0 | 17.1 | 5.2 | 94.3 | 41.7 | No | Yes |
| Veracruz | Cuichapa | 8.8 (6.5, 11.9) | 85.7 | 11.9 | 39.3 | 12.2 | 23.6 | 1.7 | 352.6 | 42.1 | No | No |
| Jalisco | Arandas | 8.8 (6.5, 11.9) | 91.2 | 7.6 | 35.2 | 8.1 | 14 | 0.4 | 81.2 | 52.4 | Yes | No |
| Sonora | Ures | 8.7 (5.8, 13.2) | 146.4 | 11.3 | 44 | 29.3 | 24.6 | 0.1 | 2.8 | 47.7 | Yes | No |
| Puebla | Atlequizayan | 8.7 (6, 12.6) | 115.1 | 9 | 32.7 | 57.6 | 15.4 | 98.2 | 206.1 | 32 | No | No |
| Guanajuato | Santiago Maravatío | 8.7 (6.2, 12.2) | 240.5 | 9.9 | 29.9 | 0 | 18.4 | 0.1 | 81.6 | 28.6 | No | No |
| Oaxaca | Santa Cruz Acatepec | 8.7 (6.2, 12.3) | 0 | 10.5 | 30.4 | 0 | 17.1 | 91.9 | 218 | 40.7 | No | No |
| Yucatán | Río Lagartos | 8.7 (6, 12.5) | 39.5 | 10.7 | 44.4 | 0 | 21.7 | 12.7 | 10.4 | 44 | No | No |
| Michoacán | Los Reyes | 8.6 (6.5, 11.4) | 138 | 9.9 | 31.6 | 9 | 19.2 | 19.4 | 145 | 53.3 | Yes | No |
| Yucatán | Opichén | 8.6 (6.2, 12) | 43.9 | 10.7 | 44.4 | 0 | 21.7 | 76.6 | 26.2 | 48.7 | No | No |
| Sonora | Alamos | 8.6 (5.8, 12.7) | 104.9 | 11.3 | 44 | 16.6 | 24.6 | 5.4 | 4 | 39.8 | Yes | No |
| Oaxaca | San Jerónimo Tlacochahuaya | 8.6 (6.3, 11.8) | 202.7 | 10.5 | 30.4 | 25.3 | 17.1 | 46.9 | 149.8 | 53.5 | No | No |
| Jalisco | Tizapán el Alto | 8.6 (6.3, 11.7) | 143.7 | 7.6 | 35.2 | 14.4 | 14 | 0.2 | 108.1 | 46.4 | Yes | No |
| Puebla | Yaonáhuac | 8.6 (6.4, 11.4) | 253.9 | 9 | 32.7 | 0 | 15.4 | 46.7 | 268.4 | 46.3 | No | No |
| Puebla | Tepango de Rodríguez | 8.6 (6.4, 11.5) | 193.1 | 9 | 32.7 | 0 | 15.4 | 85 | 137.4 | 36.1 | No | Yes |
| Michoacán | Tangancícuaro | 8.5 (6.3, 11.7) | 218.5 | 9.9 | 31.6 | 22.3 | 19.2 | 5.5 | 87.3 | 49 | Yes | No |
| Michoacán | Lagunillas | 8.5 (6.4, 11.4) | 111.4 | 9.9 | 31.6 | 0 | 19.2 | 0.1 | 76.7 | 41.5 | Yes | No |
| Sonora | Banámichi | 8.5 (5.7, 12.8) | 83.5 | 11.3 | 44 | 0 | 24.6 | 0.1 | 2 | 44 | No | Yes |
| Veracruz | Acatlán | 8.5 (6.2, 11.7) | 245.3 | 11.9 | 39.3 | 0 | 23.6 | 0.2 | 172.3 | 41.4 | No | No |
| Tlaxcala | Tzompantepec | 8.5 (6.1, 11.7) | 63.1 | 9.3 | 32.1 | 36.1 | 13 | 0.8 | 426 | 50 | Yes | No |
| Oaxaca | Tlalixtac de Cabrera | 8.4 (6.3, 11.3) | 99.1 | 10.5 | 30.4 | 14.2 | 17.1 | 12.6 | 125.2 | 54 | No | No |
| Veracruz | Chocamán | 8.4 (6.1, 11.4) | 106.1 | 11.9 | 39.3 | 0 | 23.6 | 0.5 | 476.1 | 48.5 | No | No |
| Oaxaca | Taniche | 8.2 (5.7, 11.9) | 0 | 10.5 | 30.4 | 0 | 17.1 | 0.3 | 76.7 | 38.2 | No | Yes |
| Sonora | Nacozari de García | 8.2 (5.5, 12.3) | 34.1 | 11.3 | 44 | 0 | 24.6 | 1.1 | 8 | 47.5 | Yes | No |
| Puebla | Tianguismanalco | 8.2 (6, 11.2) | 190.5 | 9 | 32.7 | 12.7 | 15.4 | 9.2 | 95.9 | 50.5 | Yes | No |
| Morelos | Tetecala | 8.2 (5.7, 11.9) | 111.2 | 12 | 33.5 | 37.1 | 17.5 | 0.3 | 114.8 | 49 | Yes | No |
| Sonora | Bacadéhuachi | 8.2 (5.4, 12.4) | 0 | 11.3 | 44 | 0 | 24.6 | 0 | 1 | 28.6 | No | Yes |
| México | Tonatico | 8.2 (5.9, 11.2) | 191.7 | 9 | 32.7 | 11.3 | 15.5 | 0.2 | 136.7 | 48.2 | No | No |
| Oaxaca | San Pedro Apóstol | 8.2 (5.7, 11.6) | 89.8 | 10.5 | 30.4 | 0 | 17.1 | 2.5 | 169.5 | 39.8 | No | Yes |
| Veracruz | Coahuitlán | 8.2 (6, 11.1) | 121.3 | 11.9 | 39.3 | 0 | 23.6 | 53.5 | 205.1 | 30.5 | No | No |
| Zacatecas | Tabasco | 8.1 (5.9, 11.2) | 149.5 | 10.9 | 33.5 | 10 | 18.9 | 0.3 | 37.7 | 40.4 | Yes | No |
| Yucatán | Teabo | 8.1 (5.9, 11.2) | 96 | 10.7 | 44.4 | 48 | 21.7 | 81.4 | 29.2 | 61.7 | No | No |
| Guerrero | Petatlán | 8.1 (5.8, 11.3) | 103.9 | 11.1 | 34.1 | 17.9 | 17.9 | 0.5 | 22.4 | 46.5 | Yes | No |
| Michoacán | Tangamandapio | 8 (6, 10.7) | 117.9 | 9.9 | 31.6 | 28.1 | 19.2 | 34.5 | 92.6 | 44.3 | Yes | No |
| Sonora | Granados | 8 (5.2, 12.3) | 0 | 11.3 | 44 | 248.1 | 24.6 | 0 | 2.9 | 45.8 | No | Yes |
| Guerrero | Benito Juárez | 8 (5.6, 11.4) | 173.1 | 11.1 | 34.1 | 9.1 | 17.9 | 0.6 | 66.6 | 46.7 | No | No |
| Yucatán | Chacsinkín | 8 (5.7, 11.1) | 55.3 | 10.7 | 44.4 | 0 | 21.7 | 96.3 | 26.3 | 45.3 | No | No |
| Oaxaca | Rojas de Cuauhtémoc | 8 (5.6, 11.3) | 117.8 | 10.5 | 30.4 | 0 | 17.1 | 1.1 | 87.9 | 48.3 | No | No |
| Oaxaca | San Juan Guelavía | 8 (5.6, 11.3) | 124.6 | 10.5 | 30.4 | 0 | 17.1 | 69.9 | 101.1 | 39 | No | No |
| Sonora | Mazatán | 7.9 (5.3, 11.9) | 206.8 | 11.3 | 44 | 103.4 | 24.6 | 0.1 | 1.8 | 52.3 | No | No |
| Oaxaca | Santo Domingo Tomaltepec | 7.9 (5.8, 10.8) | 93.4 | 10.5 | 30.4 | 46.7 | 17.1 | 21.9 | 97.8 | 50 | No | No |
| Sonora | Huachinera | 7.8 (5.3, 11.5) | 328.2 | 11.3 | 44 | 0 | 24.6 | 0.1 | 1 | 43 | No | Yes |
| Sonora | Arivechi | 7.8 (5.3, 11.5) | 221.2 | 11.3 | 44 | 0 | 24.6 | 0.4 | 1.6 | 32.5 | No | Yes |
| Yucatán | Tunkás | 7.8 (5.3, 11.5) | 122.9 | 10.7 | 44.4 | 0 | 21.7 | 52.1 | 8.5 | 41.6 | No | No |
| Yucatán | Abalá | 7.8 (5.4, 11.2) | 224.1 | 10.7 | 44.4 | 0 | 21.7 | 65.2 | 22.2 | 49.5 | No | No |
| Oaxaca | Magdalena Teitipac | 7.8 (5.8, 10.4) | 110.1 | 10.5 | 30.4 | 0 | 17.1 | 93.2 | 116 | 44.7 | No | No |
| Sonora | Cucurpe | 7.8 (5.1, 11.9) | 0 | 11.3 | 44 | 0 | 24.6 | 0.2 | 0.6 | 52.3 | No | No |
| Sonora | Santa Cruz | 7.8 (5.4, 11.2) | 243.3 | 11.3 | 44 | 0 | 24.6 | 0.6 | 1.8 | 44.3 | No | No |
| SLP | El Naranjo | 7.8 (5.5, 10.9) | 186.9 | 10.8 | 33 | 13.8 | 19.2 | 0.7 | 26.7 | 42.7 | Yes | No |
| Puebla | Aljojuca | 7.7 (5.7, 10.5) | 133.4 | 9 | 32.7 | 0 | 15.4 | 0.2 | 124.7 | 37.3 | No | No |
| Sonora | Divisaderos | 7.7 (5.3, 11.4) | 178.3 | 11.3 | 44 | 0 | 24.6 | 0.1 | 1.9 | 36.3 | No | Yes |
| Sonora | Bacoachi | 7.7 (5.3, 11.4) | 166 | 11.3 | 44 | 0 | 24.6 | 0 | 1.3 | 42 | No | No |
| Sonora | Villa Hidalgo | 7.7 (5.3, 11.4) | 167.8 | 11.3 | 44 | 0 | 24.6 | 0.1 | 1 | 36.7 | No | No |
| Sonora | Altar | 7.7 (5.3, 11.2) | 81.8 | 11.3 | 44 | 0 | 24.6 | 0.6 | 2.1 | 46.8 | No | No |
| Jalisco | Tuxpan | 7.7 (5.6, 10.6) | 123.2 | 7.6 | 35.2 | 0 | 14 | 0.6 | 47.6 | 48.7 | Yes | No |
| Oaxaca | San Dionisio Ocotlán | 7.6 (5.6, 10.5) | 122.2 | 10.5 | 30.4 | 0 | 17.1 | 3 | 106.8 | 39.9 | No | Yes |
| Oaxaca | San Martín de los Cansecos | 7.6 (5.5, 10.6) | 0 | 10.5 | 30.4 | 0 | 17.1 | 0.4 | 102.4 | 37.7 | No | Yes |
| Puebla | Coxcatlán | 7.6 (5.6, 10.3) | 150.6 | 9 | 32.7 | 15.1 | 15.4 | 35.9 | 82.1 | 40.9 | Yes | No |
| Yucatán | Cuncunul | 7.6 (5.4, 10.7) | 0 | 10.7 | 44.4 | 0 | 21.7 | 79.8 | 11.6 | 43.4 | No | No |
| Sonora | Suaqui Grande | 7.6 (5.1, 11.4) | 120.5 | 11.3 | 44 | 120.5 | 24.6 | 0 | 1.2 | 45.6 | No | No |
| Oaxaca | San Sebastián Abasolo | 7.6 (5.3, 10.8) | 71.4 | 10.5 | 30.4 | 0 | 17.1 | 32.4 | 125.8 | 45.3 | No | No |
| Tlaxcala | Lázaro Cárdenas | 7.6 (5.7, 10) | 208.4 | 9.3 | 32.1 | 0 | 13 | 0.2 | 122 | 46.1 | No | No |
| Guerrero | Florencio Villarreal | 7.5 (5.5, 10.3) | 155.6 | 11.1 | 34.1 | 16.4 | 17.9 | 0.9 | 73.3 | 43.5 | No | No |
| Oaxaca | San Ildefonso Villa Alta | 7.5 (5.3, 10.6) | 210.6 | 10.5 | 30.4 | 84.2 | 17.1 | 68.4 | 35.3 | 44 | Yes | Yes |
| Sonora | Rayón | 7.5 (5, 11.1) | 83.2 | 11.3 | 44 | 0 | 24.6 | 0 | 1.6 | 47.9 | No | No |
| Veracruz | Otatitlán | 7.5 (5.5, 10.2) | 200 | 11.9 | 39.3 | 0 | 23.6 | 1.7 | 114.4 | 43.9 | No | No |
| Veracruz | Miahuatlán | 7.5 (5.5, 10.1) | 561.6 | 11.9 | 39.3 | 0 | 23.6 | 0.2 | 159 | 42.2 | No | No |
| Jalisco | Jamay | 7.5 (5.5, 10.2) | 124.2 | 7.6 | 35.2 | 0 | 14 | 0.3 | 152.1 | 48.2 | No | No |
| Tamaulipas | Miguel Alemán | 7.5 (5, 11.1) | 68.7 | 12.8 | 41 | 5.3 | 18.4 | 0.4 | 43 | 48.9 | Yes | No |
| Michoacán | Indaparapeo | 7.5 (5.4, 10.3) | 57 | 9.9 | 31.6 | 19 | 19.2 | 0.2 | 96.3 | 43.7 | Yes | No |
| Sonora | Atil | 7.5 (4.9, 11.4) | 0 | 11.3 | 44 | 0 | 24.6 | 0.7 | 1.9 | 37.7 | No | Yes |
| Guerrero | Teloloapan | 7.4 (5.4, 10.2) | 164.9 | 11.1 | 34.1 | 8.4 | 17.9 | 1.8 | 56.8 | 36.3 | Yes | No |
| Oaxaca | Matías Romero Avendaño | 7.4 (5.2, 10.4) | 188.3 | 10.5 | 30.4 | 38.4 | 17.1 | 13.5 | 29.4 | 0 | Yes | No |
| Michoacán | Numarán | 7.4 (5.5, 9.9) | 120.4 | 9.9 | 31.6 | 0 | 19.2 | 0.1 | 127.3 | 40.2 | No | No |
| Coahuila | Sabinas | 7.4 (5.3, 10.3) | 134.4 | 12.4 | 38.6 | 9.1 | 22.4 | 0.2 | 32.1 | 50 | Yes | No |
| SLP | Huehuetlán | 7.4 (5.2, 10.3) | 168.8 | 10.8 | 33 | 39.7 | 19.2 | 67.7 | 221.5 | 34.5 | No | No |
| Michoacán | Tingambato | 7.4 (5.6, 9.7) | 176.9 | 9.9 | 31.6 | 0 | 19.2 | 6.9 | 79.1 | 45.4 | No | No |
| Oaxaca | San Pedro Ocopetatillo | 7.3 (5, 10.7) | 0 | 10.5 | 30.4 | 191.2 | 17.1 | 94.4 | 119.7 | 40.7 | No | No |
| Oaxaca | Santa Cruz Tacache de Mina | 7.3 (5.3, 10.1) | 59 | 10.5 | 30.4 | 0 | 17.1 | 0.2 | 97.1 | 28.5 | No | Yes |
| Yucatán | Tixmehuac | 7.3 (5.1, 10.5) | 298.3 | 10.7 | 44.4 | 0 | 21.7 | 91.5 | 20.9 | 43.1 | No | No |
| Sonora | Bacerac | 7.3 (5, 10.6) | 99.7 | 11.3 | 44 | 0 | 24.6 | 0.2 | 1 | 34.2 | No | No |
| Yucatán | Tahdziú | 7.3 (5.4, 9.9) | 78.9 | 10.7 | 44.4 | 0 | 21.7 | 99.1 | 21.2 | 54 | No | No |
| Morelos | Amacuzac | 7.2 (5.2, 10.1) | 168.9 | 12 | 33.5 | 16.9 | 17.5 | 0.3 | 151.6 | 43.6 | No | No |
| Oaxaca | Teotitlán de Flores Magón | 7.2 (5.4, 9.6) | 173.2 | 10.5 | 30.4 | 15.7 | 17.1 | 19.8 | 68.6 | 47.4 | Yes | No |
| Michoacán | Chilchota | 7.2 (5.4, 9.6) | 130.9 | 9.9 | 31.6 | 4.1 | 19.2 | 58.4 | 128.1 | 48.8 | No | No |
| Jalisco | Casimiro Castillo | 7.2 (5.3, 9.8) | 183.3 | 7.6 | 35.2 | 13.6 | 14 | 0.2 | 41.3 | 45.8 | Yes | No |
| Oaxaca | Magdalena Ocotlán | 7.2 (5.2, 9.9) | 0 | 10.5 | 30.4 | 0 | 17.1 | 15.4 | 110.9 | 43.6 | No | Yes |
| Oaxaca | San Miguel el Grande | 7.2 (5.3, 9.8) | 142.1 | 10.5 | 30.4 | 0 | 17.1 | 59.9 | 39.8 | 35.1 | No | No |
| Oaxaca | Villa Talea de Castro | 7.2 (5.1, 10.1) | 318.3 | 10.5 | 30.4 | 0 | 17.1 | 52.7 | 37.3 | 54 | No | Yes |
| Oaxaca | San Cristóbal Lachirioag | 7.2 (5.1, 10.1) | 515.5 | 10.5 | 30.4 | 0 | 17.1 | 93.8 | 71.6 | 43.5 | No | Yes |
| Puebla | Zapotitlán de Méndez | 7.2 (5, 10.3) | 0 | 9 | 32.7 | 0 | 15.4 | 75.4 | 268.7 | 39.3 | Yes | Yes |
| Oaxaca | Santo Tomás Mazaltepec | 7.2 (5.3, 9.6) | 232.8 | 10.5 | 30.4 | 0 | 17.1 | 53.7 | 59.8 | 57.5 | No | No |
| Oaxaca | San Mateo Etlatongo | 7.1 (5.2, 9.8) | 260.4 | 10.5 | 30.4 | 130.2 | 17.1 | 1.4 | 47.1 | 34.5 | No | Yes |
| Tamaulipas | Camargo | 7.1 (5, 10) | 122.3 | 12.8 | 41 | 0 | 18.4 | 0.3 | 16.9 | 45.8 | Yes | No |
| Yucatán | Timucuy | 7.1 (5.1, 9.9) | 80.2 | 10.7 | 44.4 | 0 | 21.7 | 88.1 | 54.7 | 54.3 | No | No |
| Zacatecas | Tlaltenango de Sánchez Román | 7 (5, 9.8) | 86.5 | 10.9 | 33.5 | 5.8 | 18.9 | 1.6 | 35.7 | 45.2 | Yes | No |
| Chiapas | Las Rosas | 7 (5.2, 9.5) | 121.4 | 7.8 | 29 | 0 | 16.2 | 5.9 | 120.4 | 47.5 | Yes | No |
| Hidalgo | Atlapexco | 7 (4.8, 10) | 45.1 | 12.9 | 31.2 | 7.5 | 17.9 | 78.2 | 139.5 | 34.4 | Yes | No |
| Oaxaca | San Pedro Tapanatepec | 7 (5.1, 9.6) | 191.4 | 10.5 | 30.4 | 10.1 | 17.1 | 3.3 | 15.2 | 44 | Yes | No |
| Oaxaca | Santa Ana | 6.9 (5.1, 9.3) | 76.2 | 10.5 | 30.4 | 0 | 17.1 | 0.3 | 39.3 | 32.9 | No | No |
| Yucatán | Tixcacalcupul | 6.9 (5.1, 9.4) | 94.7 | 10.7 | 44.4 | 0 | 21.7 | 94.1 | 14.2 | 38.3 | No | No |
| Yucatán | Tekal de Venegas | 6.9 (4.7, 10) | 0 | 10.7 | 44.4 | 54.6 | 21.7 | 56.5 | 13.1 | 39 | No | No |
| Sonora | Huépac | 6.8 (4.6, 10) | 126.3 | 11.3 | 44 | 0 | 24.6 | 0.1 | 2.2 | 39.3 | No | Yes |
| Guerrero | Alpoyeca | 6.8 (4.9, 9.5) | 277.1 | 11.1 | 34.1 | 25.2 | 17.9 | 17.8 | 70.9 | 37.4 | No | No |
| Puebla | Chapulco | 6.8 (4.9, 9.4) | 178.8 | 9 | 32.7 | 22.4 | 15.4 | 1.6 | 89 | 49.4 | No | Yes |
| Oaxaca | Santa Cruz Xitla | 6.8 (4.9, 9.3) | 176.8 | 10.5 | 30.4 | 70.7 | 17.1 | 67.8 | 83.6 | 36.4 | No | No |
| Durango | Nuevo Ideal | 6.8 (4.8, 9.5) | 100.3 | 10.9 | 37.1 | 5.9 | 20.2 | 0.2 | 14.7 | 41.6 | Yes | No |
| Guerrero | Apaxtla | 6.8 (4.8, 9.5) | 185.6 | 11.1 | 34.1 | 14.3 | 17.9 | 0.8 | 17.8 | 35.6 | No | No |
| Jalisco | Atotonilco el Alto | 6.8 (4.9, 9.3) | 110.6 | 7.6 | 35.2 | 10.1 | 14 | 0.2 | 118.4 | 47.1 | Yes | No |
| Jalisco | San Ignacio Cerro Gordo | 6.8 (4.7, 9.8) | 50.5 | 7.6 | 35.2 | 25.3 | 14 | 0.3 | 83.2 | 48.3 | Yes | No |
| Michoacán | Santa Ana Maya | 6.7 (5, 9) | 117.7 | 9.9 | 31.6 | 0 | 19.2 | 0.1 | 119.8 | 35 | No | No |
| Veracruz | Chinameca | 6.7 (5.1, 8.9) | 166.2 | 11.9 | 39.3 | 8.7 | 23.6 | 2 | 93.1 | 45.2 | No | No |
| Oaxaca | San Miguel Suchixtepec | 6.7 (5, 9) | 461.9 | 10.5 | 30.4 | 0 | 17.1 | 67.6 | 38.3 | 39.3 | No | Yes |
| Jalisco | San Martín Hidalgo | 6.7 (4.6, 9.7) | 118.7 | 7.6 | 35.2 | 15.5 | 14 | 0.2 | 81 | 40.2 | No | No |
| Veracruz | Coxquihui | 6.7 (5, 9.1) | 183.4 | 11.9 | 39.3 | 19.3 | 23.6 | 66.7 | 208.7 | 35 | No | No |
| Oaxaca | San Felipe Tejalápam | 6.7 (4.9, 9.1) | 139.2 | 10.5 | 30.4 | 19.9 | 17.1 | 1.7 | 79.1 | 46.8 | No | No |
| Veracruz | Filomeno Mata | 6.7 (4.8, 9.3) | 44.5 | 11.9 | 39.3 | 11.1 | 23.6 | 97.6 | 424.3 | 31.9 | No | No |
| Michoacán | Tanhuato | 6.7 (4.9, 9.1) | 289.1 | 9.9 | 31.6 | 28.9 | 19.2 | 1.1 | 67.3 | 41.6 | Yes | No |
| Puebla | Atzala | 6.7 (5, 9) | 118.2 | 9 | 32.7 | 0 | 15.4 | 0.3 | 116.9 | 41.6 | No | No |
| Oaxaca | San Lorenzo Victoria | 6.7 (4.6, 9.6) | 295.4 | 10.5 | 30.4 | 147.7 | 17.1 | 1.5 | 18.1 | 32.4 | No | Yes |
| Guerrero | San Luis Acatlán | 6.7 (4.9, 9.1) | 146.6 | 11.1 | 34.1 | 17.3 | 17.9 | 54.6 | 39.8 | 32.2 | Yes | No |
| Oaxaca | San Juan del Estado | 6.7 (4.8, 9.2) | 217.9 | 10.5 | 30.4 | 0 | 17.1 | 1.2 | 19.6 | 43.8 | No | No |
| Oaxaca | San Miguel Aloápam | 6.7 (4.8, 9.2) | 498.6 | 10.5 | 30.4 | 0 | 17.1 | 98.1 | 15.3 | 39.1 | No | No |
| Michoacán | Huiramba | 6.6 (4.9, 9) | 244.5 | 9.9 | 31.6 | 0 | 19.2 | 0.3 | 111.7 | 41.5 | Yes | No |
| Sonora | Tepache | 6.6 (4.5, 9.6) | 92.4 | 11.3 | 44 | 0 | 24.6 | 0 | 1.6 | 36.6 | No | Yes |
| Sonora | San Pedro de la Cueva | 6.6 (4.5, 9.6) | 82.6 | 11.3 | 44 | 0 | 24.6 | 0.1 | 0.7 | 43.3 | No | No |
| Sonora | Arizpe | 6.6 (4.5, 9.6) | 96.9 | 11.3 | 44 | 0 | 24.6 | 0 | 0.9 | 36.4 | No | No |
| Oaxaca | San Mateo del Mar | 6.6 (4.9, 8.8) | 80.1 | 10.5 | 30.4 | 0 | 17.1 | 98.3 | 165.3 | 42.2 | No | No |
| Oaxaca | Heroica Ciudad de Ejutla de Crespo | 6.6 (4.8, 9) | 206.1 | 10.5 | 30.4 | 22.1 | 17.1 | 2.5 | 65.9 | 40.4 | No | No |
| Oaxaca | Santo Domingo Petapa | 6.6 (4.8, 9) | 176.1 | 10.5 | 30.4 | 52.8 | 17.1 | 36.7 | 27 | 44.3 | No | No |
| Sonora | Bacanora | 6.5 (4.3, 9.9) | 0 | 11.3 | 44 | 0 | 24.6 | 0.3 | 0.7 | 35.8 | No | Yes |
| Sonora | Onavas | 6.5 (4.3, 9.9) | 0 | 11.3 | 44 | 0 | 24.6 | 0.3 | 0.9 | 48.9 | No | No |
| Oaxaca | Santiago Lalopa | 6.5 (4.8, 9) | 313.5 | 10.5 | 30.4 | 0 | 17.1 | 92.5 | 19.4 | 47.3 | No | Yes |
| Oaxaca | Nuevo Zoquiápam | 6.5 (4.8, 9) | 208.3 | 10.5 | 30.4 | 0 | 17.1 | 44.5 | 16.4 | 39.4 | No | No |
| Sonora | Naco | 6.5 (4.6, 9.3) | 99.9 | 11.3 | 44 | 0 | 24.6 | 1 | 5 | 48.9 | No | No |
| Puebla | Ixcaquixtla | 6.5 (4.7, 9.1) | 70.3 | 9 | 32.7 | 0 | 15.4 | 1 | 82 | 45.7 | Yes | No |
| Oaxaca | Santiago Tillo | 6.5 (4.5, 9.3) | 250 | 10.5 | 30.4 | 0 | 17.1 | 5.4 | 30.6 | 47 | No | Yes |
| Oaxaca | Santo Domingo Ixcatlán | 6.5 (4.5, 9.3) | 201.2 | 10.5 | 30.4 | 0 | 17.1 | 24.7 | 36.4 | 33.2 | No | No |
| Oaxaca | San Juan Bautista Valle Nacional | 6.5 (4.6, 9.2) | 249.8 | 10.5 | 30.4 | 6.9 | 17.1 | 57.7 | 33.2 | 31.1 | Yes | No |
| Zacatecas | Momax | 6.4 (4.5, 9.2) | 170.6 | 10.9 | 33.5 | 0 | 18.9 | 0 | 14.9 | 39.9 | No | No |
| Oaxaca | San Bartolomé Quialana | 6.4 (4.7, 8.9) | 60.5 | 10.5 | 30.4 | 0 | 17.1 | 96.8 | 103.7 | 36.5 | No | No |
| Yucatán | Celestún | 6.4 (4.4, 9.4) | 98.8 | 10.7 | 44.4 | 39.5 | 21.7 | 7.3 | 13 | 51.9 | No | No |
| Yucatán | Calotmul | 6.4 (4.4, 9.2) | 281.3 | 10.7 | 44.4 | 0 | 21.7 | 60.3 | 13.7 | 42.4 | No | No |
| Sonora | San Felipe de Jesús | 6.4 (4.2, 9.8) | 0 | 11.3 | 44 | 327.9 | 24.6 | 0.8 | 2.7 | 40.1 | No | Yes |
| Oaxaca | Santa Ana del Valle | 6.4 (4.6, 9) | 401.9 | 10.5 | 30.4 | 0 | 17.1 | 82.6 | 74.1 | 37.1 | No | No |
| Sonora | Pitiquito | 6.4 (4.3, 9.5) | 45.3 | 11.3 | 44 | 15.1 | 24.6 | 3.1 | 1 | 45.9 | No | No |
| Oaxaca | Santa María Guelacé | 6.4 (4.5, 9) | 0 | 10.5 | 30.4 | 348.4 | 17.1 | 21 | 110.2 | 54.5 | No | Yes |

Characteristics are displayed in quintiles of the distribution within 2457 municipalities of the country: Red cell: Quintile 5, no hospital, or hope municipality, Orange cell: Quintile 4, Yellow cell: Quintile 3, Olive cell: Quintile 2, Green cell: Quintile 1, Hospital in the municipality, or not a Hope Municipality.

2020 Data: Hospitals.

2018 Data: State diabetes prevalence, Diabetes Crude Mortality Rate, State hypertension prevalence, Hypertension Crude Mortality Rate, State Obesity Prevalence.

2015 Data: Economically active population, Population density.

2010 Data: Indigenous population.

Supplementary Table 2. Individual factor risk of dying COVID-19 in confirmed symptomatic cases in Mexico

|  |  |  |  |
| --- | --- | --- | --- |
|  | Category | IRR (95% CI) | p value |
| Individual Characteristics | <40 y old | 1 |  |
| 40-59 y old | 4.37 (4.12, 4.63) | <0.001 |
| ≥60 y old | 10.5 (9.96, 11.2) | <0.001 |
| Males | 1.52 (1.48, 1.57) | <0.001 |
| Obesity | 1.24 (1.20, 1.29) | <0.001 |
| Smoker | 0.96 (0.91, 1.01) | 0.133 |
| Indigenism | 1.39 (1.25, 1.54) | <0.001 |
| Comorbidities | Chronic kidney disease | 1.45 (1.38, 1.54) | <0.001 |
| Diabetes | 1.42 (1.37, 1.46) | <0.001 |
| COPD | 1.21 (1.14, 1.30) | <0.001 |
| Hypertension | 1.22 (1.18, 1.26) | <0.001 |
| Other comorbidities\*¥ | 1.16 (1.09, 1.24) | <0.001 |
| Immunosuppression | 1.23 (1.12, 1.35) | <0.001 |
| Cardiovascular diseases | 1.02 (0.96, 1.08) | 0.450 |
| Asthma | 0.82 (0.74, 0.90) | <0.001 |
| Institution | Private | 1 |  |
| SSA (Public)1 | 1.65 (1.45, 1.86) | <0.001 |
| IMSS (Public)2 | 3.18 (2.81, 3.60) | <0.001 |
| ISSSTE (Public)3 | 2.49 (2.18, 2.85) | <0.001 |
| Other | 1.82 (1.59, 2.09) | <0.001 |
| Days that passed between the onset of symptoms and medical attention | 0-5 days | 1 |  |
| 6-14 days | 1.05 (1.02, 1.08) | 0.001 |
| ≥15 days | 0.76 (0.63, 0.92) | 0.001 |

£Open data from the Ministry of Health. The sample includes 19 845 deaths from the 167 851 accumulated confirmed cases with complete information of June 20, 2020. ¥ Other comorbidities\*.

1SSA: Ministry of Health Hospitals.2IMSS: Mexican Social Security Institute. 3ISSSTE: The Mexican Civil Service Social Security and Services Institute.

References categories were: <40 years old, females, and not having the condition.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table 3. Municipal factors associated with Cummulative Incidence and Case Fatality Rates of COVID-19 in symptomatic cases in four moments of the pandemic in Mexico. | | | | | | | | | |
|  |  | Cummulative Incidence Rate | | | | Case Fathality Rate | | | |
| (Symptomatic Cases of COVID-19/Estimated Population)\*100 000 | | | | (Confirmed COVID-19 death/Symptomatic Cases of COVID-19)\*100 | | | |
|  |  | Jan-April | May | June | As of June 20, 2020 | Jan-April | May 1st to 30 | June 1st to 20, 2020 | As of June 20, 2020 |
|  | Quintile | IRR (95%CI) | IRR (95%CI) | IRR (95%CI) | IRR (95%CI) | IRR (95%CI) | IRR (95%CI) | IRR (95%CI) | IRR (95%CI) |
|  | n | 28304 | 81116 | 65683 | 175148 | 3301 | 10408 | 7064 | 20773 |
| Proportion of population aged 60 year or older.a | 1 | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
|  | 2 | 1.12 (0.92, 1.35). | 1.06 (0.91, 1.22) | **1.16 (1.01, 1.34)** | 1.11 (0.98, 1.26) | 1.27 (0.97, 1.64) | 1.06 (0.89, 1.27) | 1.02 (0.84, 1.22) | 1.07 (0.92, 1.24) |
|  | 3 | 1.21 (0.97, 1.5) | 1.16 (0.98, 1.36) | 1.14 (0.97, 1.34) | **1.18 (1.03, 1.36)** | 1.25 (0.9, 1.73) | 1.13 (0.92, 1.4) | 1 (0.81, 1.25) | 1.15 (0.96, 1.37) |
|  | 4 | **1.33 (1.04, 1.71)** | 0.93 (0.77, 1.12) | 1.08 (0.91, 1.3) | 1.06 (0.91, 1.23) | **1.59 (1.08, 2.33)** | 1.09 (0.85, 1.4) | 0.95 (0.73, 1.23) | 1.11 (0.91, 1.36) |
|  | 5 | **1.69 (1.21, 2.35)** | 0.89 (0.7, 1.13) | 1.08 (0.85, 1.37) | 1.07 (0.88, 1.3) | **2.43 (1.37, 4.29)** | 1.28 (0.88, 1.85) | 1.09 (0.74, 1.61) | 1.25 (0.93, 1.68) |
| Proportion of males.a | 1 | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
|  | 2 | 0.9 (0.72, 1.13) | 1.04 (0.87, 1.24) | 1.06 (0.9, 1.26) | 1 (0.87, 1.16) | 1.04 (0.73, 1.49) | 1.06 (0.85, 1.32) | 1.1 (0.87, 1.41) | 1.01 (0.84, 1.22) |
|  | 3 | 0.8 (0.63, 1.01) | 0.89 (0.74, 1.07) | 1.05 (0.88, 1.26) | 0.91 (0.78, 1.07) | 1.14 (0.78, 1.66) | 1 (0.79, 1.26) | 1.03 (0.79, 1.33) | 0.96 (0.79, 1.17) |
|  | 4 | **0.68 (0.52, 0.87)** | 0.98 (0.81, 1.19) | 1.09 (0.91, 1.32) | 0.94 (0.8, 1.1) | 0.96 (0.64, 1.44) | 1.05 (0.81, 1.35) | 1.1 (0.84, 1.45) | 1 (0.81, 1.23) |
|  | 5 | **0.74 (0.54, 1)** | 1.14 (0.9, 1.43) | 0.91 (0.73, 1.14) | 0.92 (0.76, 1.11) | 1.22 (0.76, 1.97) | 1.2 (0.88, 1.64) | 1.12 (0.8, 1.56) | 1.13 (0.88, 1.46) |
| Diabetes prevalence in adults aged 20 years or older.b | 1 | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
|  | 2 | 1.26 (1, 1.6) | 0.97 (0.8, 1.16) | 1.07 (0.89, 1.29) | 1.05 (0.9, 1.22) | **2.04 (1.44, 2.9)** | 1.21 (0.96, 1.53) | 1.11 (0.88, 1.42) | **1.3 (1.08, 1.58)** |
|  | 3 | 1.2 (0.91, 1.58) | **1.28 (1.04, 1.59)** | **1.29 (1.05, 1.59)** | **1.27 (1.06, 1.52)** | **2.49 (1.62, 3.83)** | **2.13 (1.6, 2.84)** | **1.98 (1.48, 2.66)** | **2.01 (1.6, 2.54)** |
|  | 4 | 1.25 (0.9, 1.74) | **1.46 (1.12, 1.88)** | 1.15 (0.89, 1.48) | 1.22 (0.98, 1.52) | **2.99 (1.81, 4.95)** | **3.09 (2.21, 4.32)** | **2.1 (1.49, 2.98)** | **2.6 (1.97, 3.43)** |
|  | 5 | **1.84 (1.36, 2.5)** | **1.68 (1.33, 2.14)** | 1.19 (0.94, 1.5) | **1.39 (1.13, 1.7)** | **2.93 (1.85, 4.64)** | **2.37 (1.75, 3.2)** | **1.59 (1.16, 2.19)** | **2.14 (1.66, 2.75)** |
| Obesity prevalence in adults aged 20 years or older.b | 1 | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
|  | 2 | 1.08 (0.85, 1.38) | **0.72 (0.6, 0.88)** | **0.71 (0.59, 0.86)** | **0.77 (0.66, 0.91)** | 1.08 (0.74, 1.58) | **0.7 (0.54, 0.9)** | **0.55 (0.43, 0.72)** | **0.71 (0.58, 0.88)** |
|  | 3 | 1.19 (0.89, 1.58) | **0.72 (0.58, 0.9)** | 0.85 (0.69, 1.04) | 0.85 (0.71, 1.02) | 1.45 (0.95, 2.24) | **0.74 (0.56, 0.98)** | 0.94 (0.7, 1.24) | 0.9 (0.71, 1.13) |
|  | 4 | 0.91 (0.66, 1.27) | **0.62 (0.48, 0.81)** | 0.81 (0.63, 1.03) | **0.72 (0.58, 0.9)** | 0.66 (0.4, 1.07) | **0.5 (0.36, 0.7)** | **0.66 (0.47, 0.94)** | **0.61 (0.46, 0.8)** |
|  | 5 | 4 (2.67, 6.01) | **1.94 (1.4, 2.71)** | **2.33 (1.71, 3.18)** | **2.37 (1.8, 3.12)** | **3.56 (1.96, 6.45)** | **1.52 (1.01, 2.27)** | **1.82 (1.19, 2.78)** | **1.93 (1.37, 2.71)** |
| Hypertension prevalence in adults aged 20 years or older.b | 1 | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
|  | 2 | 0.94 (0.69, 1.29) | 0.86 (0.67, 1.11) | 0.94 (0.74, 1.2) | 0.9 (0.73, 1.11) | **0.49 (0.31, 0.79)** | **0.52 (0.38, 0.73)** | **0.6 (0.43, 0.84)** | **0.59 (0.45, 0.78)** |
|  | 3 | **0.59 (0.45, 0.78)** | **0.75 (0.61, 0.93)** | 0.93 (0.75, 1.14) | 0.84 (0.7, 1.01) | **0.34 (0.22, 0.53)** | **0.58 (0.44, 0.78)** | **0.62 (0.46, 0.82)** | **0.58 (0.46, 0.74)** |
|  | 4 | 0.79 (0.58, 1.08) | 1.06 (0.83, 1.36) | 1.17 (0.92, 1.48) | 1.14 (0.92, 1.39) | **0.32 (0.2, 0.52)** | **0.65 (0.47, 0.9)** | **0.51 (0.37, 0.71)** | **0.55 (0.42, 0.71)** |
|  | 5 | **0.53 (0.38, 0.73)** | **0.61 (0.47, 0.78)** | **0.63 (0.49, 0.82)** | **0.62 (0.5, 0.76)** | **0.28 (0.17, 0.45)** | **0.42 (0.3, 0.59)** | **0.42 (0.29, 0.59)** | **0.4 (0.31, 0.53)** |
| Crude mortality rate of diabetes in adults 20 years or older.c | 1 | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
|  | 2 | 0.81 (0.64, 1.04) | 1 (0.83, 1.2) | **1.2 (1.01, 1.44)** | 1.05 (0.91, 1.22) | 1.01 (0.67, 1.51) | 1.08 (0.82, 1.4) | **1.34 (1.01, 1.79)** | 1.17 (0.94, 1.45) |
|  | 3 | 0.98 (0.77, 1.26) | 0.98 (0.81, 1.18) | **1.22 (1.01, 1.46)** | 1.05 (0.91, 1.23) | 1.22 (0.81, 1.85) | **1.35 (1.03, 1.76)** | **1.58 (1.19, 2.11)** | **1.34 (1.07, 1.66)** |
|  | 4 | 0.91 (0.7, 1.18) | 1.06 (0.87, 1.28) | **1.4 (1.16, 1.69)** | 1.16 (1, 1.36) | 1.54 (0.99, 2.38) | **1.56 (1.18, 2.06)** | **1.78 (1.32, 2.4)** | **1.54 (1.23, 1.94)** |
|  | 5 | 1.12 (0.85, 1.48) | 1.14 (0.93, 1.4) | **1.4 (1.14, 1.7)** | **1.23 (1.04, 1.45)** | **1.75 (1.09, 2.8)** | **1.56 (1.16, 2.11)** | **1.69 (1.22, 2.34)** | **1.58 (1.24, 2.01)** |
| Crude mortality rate of hypertension in adults 20 years or older.c | 1 |  |  |  |  |  |  |  |  |
|  | 3 | 0.97 (0.8, 1.19) | 0.92 (0.78, 1.07) | 1.04 (0.9, 1.21) | 1 (0.87, 1.14) | 0.96 (0.7, 1.33) | 0.99 (0.81, 1.21) | 0.85 (0.69, 1.05) | 0.94 (0.8, 1.11) |
|  | 4 | 0.96 (0.79, 1.16) | 1.05 (0.91, 1.21) | 1.01 (0.88, 1.17) | 1.02 (0.91, 1.15) | 0.87 (0.62, 1.21) | 1.08 (0.89, 1.32) | 0.92 (0.75, 1.14) | 1.02 (0.87, 1.2) |
|  | 5 | 0.96 (0.77, 1.19) | 0.99 (0.85, 1.16) | **0.86 (0.74, 1)** | 0.93 (0.83, 1.06) | 1 (0.66, 1.52) | 0.91 (0.7, 1.16) | 1.05 (0.81, 1.36) | 1.03 (0.85, 1.25) |
| Crude mortality rate of cerebrovascular disease in adults 20 years or older.c | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 0.84 (0.64, 1.1) | 0.87 (0.71, 1.07) | 0.98 (0.8, 1.2) | 0.91 (0.76, 1.08) | 1.02 (0.63, 1.64) | 0.89 (0.67, 1.18) | 0.96 (0.7, 1.3) | 0.95 (0.75, 1.19) |
|  | 3 | **0.76 (0.6, 0.97)** | 0.97 (0.82, 1.16) | 1.07 (0.9, 1.27) | 0.98 (0.85, 1.13) | 1.06 (0.68, 1.65) | 0.94 (0.72, 1.21) | 1.1 (0.83, 1.46) | 1.01 (0.82, 1.24) |
|  | 4 | **0.77 (0.61, 0.97)** | 0.91 (0.77, 1.07) | 1.09 (0.93, 1.28) | 0.96 (0.83, 1.09) | 0.92 (0.59, 1.43) | 0.91 (0.7, 1.18) | 1.32 (1, 1.74) | 1.04 (0.85, 1.27) |
|  | 5 | **0.73 (0.56, 0.93)** | 0.94 (0.79, 1.11) | 0.97 (0.81, 1.15) | 0.91 (0.79, 1.05) | 0.8 (0.47, 1.34) | 0.94 (0.7, 1.25) | 0.95 (0.68, 1.32) | 0.93 (0.74, 1.17) |
| Proportion of the population in extreme poverty | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.13 (0.9, 1.42) | **1.24 (1.04, 1.48)** | 0.93 (0.78, 1.11) | 1.07 (0.92, 1.25) | 1.38 (0.98, 1.95) | 1.08 (0.85, 1.36) | 0.88 (0.7, 1.12) | 1.04 (0.86, 1.27) |
|  | 3 | 1.3 (0.95, 1.77) | **1.28 (1, 1.62)** | 0.94 (0.74, 1.19) | 1.11 (0.9, 1.35) | **1.67 (1.01, 2.78)** | 0.96 (0.69, 1.33) | 1.07 (0.77, 1.5) | 1.1 (0.84, 1.44) |
|  | 4 | 0.87 (0.58, 1.29) | 1.17 (0.86, 1.58) | 1.03 (0.77, 1.37) | 1.08 (0.85, 1.39) | 1.75 (0.86, 3.57) | 0.92 (0.6, 1.41) | 1.41 (0.9, 2.19) | 1.21 (0.86, 1.7) |
|  | 5 | **0.56 (0.32, 0.97)** | 0.92 (0.63, 1.36) | 0.71 (0.48, 1.03) | 0.81 (0.59, 1.11) | 1.19 (0.41, 3.49) | 0.87 (0.48, 1.58) | 0.91 (0.47, 1.75) | 1 (0.63, 1.6) |
| Proportion of illiterate population aged 5 year or older.e | 1 |  |  |  |  |  |  |  |  |
|  | 2 | **0.65 (0.53, 0.81)** | **0.73 (0.61, 0.87)** | **0.71 (0.6, 0.84)** | **0.72 (0.62, 0.83)** | 0.76 (0.55, 1.04) | **0.78 (0.62, 0.96)** | **0.78 (0.62, 0.97)** | **0.75 (0.63, 0.9)** |
|  | 3 | **0.54 (0.41, 0.73)** | **0.64 (0.51, 0.8)** | **0.64 (0.51, 0.8)** | **0.63 (0.53, 0.77)** | **0.62 (0.39, 0.98)** | **0.73 (0.54, 0.98)** | **0.68 (0.5, 0.93)** | **0.68 (0.53, 0.87)** |
|  | 4 | **0.49 (0.34, 0.69)** | **0.61 (0.47, 0.79)** | **0.46 (0.36, 0.6)** | **0.55 (0.44, 0.68)** | 0.61 (0.34, 1.11) | **0.64 (0.44, 0.92)** | **0.56 (0.38, 0.83)** | **0.62 (0.46, 0.84)** |
|  | 5 | 0.8 (0.5, 1.28) | **0.5 (0.36, 0.7)** | **0.38 (0.28, 0.53)** | **0.5 (0.38, 0.65)** | 0.93 (0.39, 2.24) | 0.68 (0.41, 1.13) | **0.47 (0.27, 0.81)** | **0.62 (0.42, 0.92)** |
| Proportion of indigenous population aged 5 year or older.e | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.09 (0.89, 1.34) | 0.94 (0.81, 1.11) | **0.84 (0.72, 0.98)** | 0.91 (0.8, 1.04) | 1.35 (0.96, 1.91) | **1.75 (1.39, 2.21)** | **1.31 (1.04, 1.65)** | **1.43 (1.2, 1.71)** |
|  | 3 | **1.31 (1.05, 1.63)** | 1.01 (0.85, 1.21) | **0.84 (0.72, 1)** | 0.94 (0.81, 1.08) | **1.95 (1.36, 2.8)** | **2.27 (1.77, 2.91)** | **1.45 (1.14, 1.86)** | **1.68 (1.38, 2.03)** |
|  | 4 | 0.85 (0.66, 1.1) | 0.83 (0.69, 1) | **0.75 (0.63, 0.9)** | **0.77 (0.66, 0.9)** | 1.25 (0.81, 1.92) | **1.91 (1.45, 2.51)** | 1.22 (0.93, 1.62) | **1.39 (1.13, 1.73)** |
|  | 5 | 0.97 (0.68, 1.4) | 0.79 (0.61, 1.03) | **0.65 (0.51, 0.84)** | **0.7 (0.57, 0.86)** | 0.99 (0.5, 1.97) | **1.75 (1.18, 2.6)** | 1.01 (0.66, 1.55) | 1.18 (0.87, 1.61) |
| Proportion of population economically active aged 12 year or older.d | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.28 (0.93, 1.78) | **1.26 (1.02, 1.55)** | 1.09 (0.88, 1.34) | **1.18 (1, 1.4)** | 1.57 (0.76, 3.24) | 1.38 (0.93, 2.04) | 0.99 (0.66, 1.49) | 1.22 (0.92, 1.63) |
|  | 3 | 1.34 (0.95, 1.9) | **1.49 (1.19, 1.88)** | 1.15 (0.92, 1.45) | **1.38 (1.15, 1.66)** | 1.9 (0.9, 4.02) | **1.51 (1, 2.27)** | 0.9 (0.59, 1.39) | 1.29 (0.95, 1.74) |
|  | 4 | 1.29 (0.88, 1.88) | **1.48 (1.15, 1.91)** | 1.21 (0.94, 1.55) | **1.42 (1.16, 1.74)** | 1.88 (0.86, 4.12) | 1.46 (0.95, 2.25) | 1 (0.63, 1.57) | 1.35 (0.97, 1.86) |
|  | 5 | 1.45 (0.95, 2.2) | **1.77 (1.33, 2.36)** | 1.27 (0.96, 1.69) | **1.61 (1.28, 2.04)** | 2.27 (0.99, 5.23) | 1.51 (0.95, 2.42) | 1.12 (0.68, 1.83) | **1.5 (1.06, 2.14)** |
| Rate of economic units that operate essential activities during COVID-19 outbreakd | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.2 (0.94, 1.54) | **1.49 (1.25, 1.77)** | **1.34 (1.12, 1.59)** | **1.41 (1.22, 1.62)** | 1.19 (0.76, 1.88) | 1.51 (1.16, 1.97) | 1.23 (0.92, 1.65) | **1.33 (1.08, 1.64)** |
|  | 3 | 1.09 (0.84, 1.41) | **1.42 (1.17, 1.71)** | **1.26 (1.05, 1.51)** | **1.34 (1.15, 1.56)** | 0.94 (0.59, 1.5) | 1.23 (0.93, 1.62) | 1.18 (0.87, 1.59) | 1.21 (0.97, 1.5) |
|  | 4 | 1.2 (0.92, 1.57) | **1.62 (1.34, 1.97)** | **1.64 (1.35, 1.99)** | **1.6 (1.36, 1.88)** | 1.07 (0.67, 1.73) | **1.62 (1.22, 2.14)** | **1.71 (1.26, 2.32)** | **1.54 (1.23, 1.93)** |
|  | 5 | 1.12 (0.83, 1.51) | **1.41 (1.14, 1.75)** | **1.53 (1.24, 1.89)** | **1.48 (1.24, 1.77)** | 0.75 (0.44, 1.28) | **1.29 (0.94, 1.76)** | **1.42 (1.02, 1.98)** | **1.29 (1.01, 1.66)** |
| Population densityc | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.26 (0.93, 1.71) | 1.23 (0.99, 1.53) | 1.18 (0.96, 1.45) | **1.2 (1.01, 1.43)** | 1.13 (0.65, 1.95) | **1.53 (1.07, 2.18)** | **1.84 (1.28, 2.64)** | **1.58 (1.21, 2.07)** |
|  | 3 | 1.16 (0.85, 1.58) | **1.39 (1.1, 1.74)** | 1.14 (0.92, 1.41) | **1.23 (1.02, 1.47)** | 1.42 (0.83, 2.43) | **1.84 (1.29, 2.62)** | **1.66 (1.15, 2.4)** | **1.67 (1.27, 2.19)** |
|  | 4 | **1.56 (1.12, 2.17)** | **1.97 (1.54, 2.51)** | **1.57 (1.25, 1.96)** | **1.7 (1.4, 2.07)** | **1.76 (1.01, 3.05)** | **2.39 (1.65, 3.46)** | **2.38 (1.63, 3.47)** | **2.28 (1.71, 3.04)** |
|  | 5 | **1.8 (1.24, 2.6)** | **2.39 (1.81, 3.15)** | **1.95 (1.51, 2.51)** | **2.08 (1.67, 2.6)** | **1.87 (1.04, 3.38)** | **3.1 (2.09, 4.6)** | **2.64 (1.75, 3.97)** | **2.72 (1.99, 3.73)** |
| Proportion of houses with availability of clear water inside the domicile.d | 1 |  |  |  |  |  |  |  |  |
|  | 2 | **0.78 (0.64, 0.94)** | **0.76 (0.65, 0.89)** | 0.88 (0.76, 1.03) | **0.81 (0.71, 0.93)** | 0.87 (0.66, 1.16) | 0.86 (0.71, 1.05) | 0.82 (0.67, 1.01) | 0.85 (0.72, 1) |
|  | 3 | 0.87 (0.7, 1.08) | 0.85 (0.72, 1.01) | 1.07 (0.91, 1.27) | 0.93 (0.81, 1.07) | 1.1 (0.81, 1.5) | 1.04 (0.83, 1.3) | 1.05 (0.84, 1.32) | 1.01 (0.84, 1.21) |
|  | 4 | 0.99 (0.78, 1.25) | 1.07 (0.89, 1.29) | 1.16 (0.97, 1.39) | 1.1 (0.94, 1.29) | 0.98 (0.7, 1.39) | 1.08 (0.85, 1.37) | 1.12 (0.87, 1.43) | 1.04 (0.86, 1.27) |
|  | 5 | 1.03 (0.79, 1.36) | 1.12 (0.91, 1.37) | **1.46 (1.19, 1.79)** | **1.27 (1.07, 1.51)** | 1.15 (0.74, 1.78) | **1.39 (1.05, 1.82)** | 1.18 (0.88, 1.58) | 1.24 (0.99, 1.55) |
| Proportion of houses without sewage drainage.d | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.16 (0.95, 1.42) | 0.97 (0.82, 1.14) | 0.99 (0.85, 1.15) | 1.01 (0.88, 1.15) | 0.86 (0.64, 1.15) | 0.92 (0.75, 1.12) | 0.89 (0.73, 1.1) | 0.93 (0.78, 1.09) |
|  | 3 | 0.93 (0.73, 1.19) | 0.98 (0.81, 1.18) | 1.01 (0.84, 1.21) | 1.03 (0.88, 1.2) | 0.74 (0.5, 1.08) | 0.84 (0.66, 1.08) | 1.02 (0.79, 1.33) | 0.94 (0.77, 1.16) |
|  | 4 | 1.04 (0.78, 1.38) | 0.96 (0.78, 1.19) | 0.89 (0.72, 1.1) | 0.95 (0.8, 1.14) | 0.69 (0.43, 1.12) | 0.91 (0.68, 1.21) | 1.01 (0.75, 1.37) | 0.96 (0.76, 1.22) |
|  | 5 | 0.86 (0.59, 1.26) | 0.84 (0.64, 1.09) | **0.74 (0.57, 0.96)** | **0.8 (0.65, 1)** | 0.71 (0.35, 1.42) | 0.75 (0.51, 1.1) | 0.68 (0.44, 1.05) | 0.75 (0.55, 1.02) |
| Proportion of houses with dirt floor.d | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 1.09 (0.89, 1.34) | 1.13 (0.96, 1.33) | 1.11 (0.95, 1.3) | 1.12 (0.98, 1.29) | 0.98 (0.72, 1.33) | **1.25 (1.01, 1.54)** | 1.13 (0.92, 1.4) | **1.21 (1.01, 1.44)** |
|  | 3 | 1.05 (0.81, 1.37) | 1.24 (1.02, 1.52) | **1.3 (1.07, 1.59)** | 1.25 (1.05, 1.48) | 1.09 (0.73, 1.62) | 1.23 (0.93, 1.61) | 1.08 (0.82, 1.43) | 1.21 (0.97, 1.52) |
|  | 4 | 0.76 (0.55, 1.06) | 0.98 (0.77, 1.24) | 1.17 (0.92, 1.49) | 1.03 (0.84, 1.26) | 0.66 (0.39, 1.11) | 1 (0.72, 1.4) | 0.96 (0.67, 1.35) | 0.97 (0.74, 1.27) |
|  | 5 | 0.66 (0.43, 1.01) | 1 (0.74, 1.35) | **1.45 (1.09, 1.95)** | 1.09 (0.85, 1.39) | 0.49 (0.22, 1.11) | 0.88 (0.57, 1.37) | 0.8 (0.5, 1.28) | 0.8 (0.56, 1.13) |
| Rate of Hospitals/population | 1 |  |  |  |  |  |  |  |  |
|  | 4 | **1.24 (1.03, 1.5)** | **1.19 (1.03, 1.38)** | **1.23 (1.07, 1.41)** | **1.25 (1.1, 1.41)** | 1.26 (0.93, 1.71) | 1.17 (0.97, 1.41) | **1.3 (1.07, 1.58)** | **1.25 (1.07, 1.45)** |
|  | 5 | **1.25 (1.03, 1.5)** | 1.14 (0.99, 1.31) | 1.13 (0.99, 1.3) | **1.16 (1.03, 1.3)** | 1.25 (0.91, 1.72) | 0.99 (0.81, 1.2) | 1.09 (0.89, 1.34) | 1.06 (0.9, 1.24) |
| Rate of units of Primary Health Care Services/population | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 0.93 (0.77, 1.11) | 0.95 (0.82, 1.11) | 0.98 (0.84, 1.13) | 0.97 (0.85, 1.1) | 1.17 (0.89, 1.53) | 1.06 (0.89, 1.27) | 0.97 (0.81, 1.17) | 1.04 (0.9, 1.21) |
|  | 3 | **0.74 (0.59, 0.94)** | 0.91 (0.77, 1.09) | 0.93 (0.78, 1.11) | 0.9 (0.77, 1.04) | 0.99 (0.68, 1.44) | 0.93 (0.74, 1.17) | 1.02 (0.8, 1.31) | 0.96 (0.79, 1.16) |
|  | 4 | 0.83 (0.62, 1.11) | 1.06 (0.86, 1.31) | **1.26 (1.02, 1.54)** | 1.15 (0.97, 1.37) | 1.03 (0.62, 1.73) | 1.05 (0.77, 1.43) | 1.08 (0.77, 1.5) | 1.07 (0.84, 1.37) |
|  | 5 | 0.79 (0.53, 1.19) | 1.05 (0.8, 1.39) | 1.12 (0.85, 1.47) | 1.12 (0.89, 1.4) | 0.71 (0.31, 1.67) | 0.91 (0.56, 1.48) | 1.17 (0.71, 1.95) | 1.03 (0.72, 1.49) |
| Rate of Social Assistance medical units/population | 1 |  |  |  |  |  |  |  |  |
|  | 4 | **1.3 (1.04, 1.62)** | 1.11 (0.92, 1.34) | 1.06 (0.89, 1.27) | 1.08 (0.91, 1.27) | 1.14 (0.85, 1.54) | 1.19 (0.97, 1.45) | 0.95 (0.77, 1.17) | 1.06 (0.89, 1.26) |
|  | 5 | **1.25 (1.05, 1.48)** | **1.47 (1.28, 1.68)** | **1.36 (1.2, 1.55)** | **1.35 (1.2, 1.51)** | 1.17 (0.9, 1.53) | **1.29 (1.08, 1.53)** | 1.07 (0.9, 1.28) | 1.14 (0.99, 1.31) |
| Proportion of without health care insuranced | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 0.87 (0.69, 1.09) | **0.7 (0.58, 0.84)** | **0.7 (0.59, 0.84)** | **0.71 (0.61, 0.83)** | 0.81 (0.57, 1.17) | **0.78 (0.62, 0.97)** | **0.64 (0.5, 0.81)** | **0.71 (0.59, 0.86)** |
|  | 3 | 0.77 (0.57, 1.04) | **0.57 (0.46, 0.73)** | **0.65 (0.52, 0.82)** | **0.62 (0.51, 0.75)** | 0.99 (0.61, 1.6) | **0.58 (0.43, 0.78)** | **0.55 (0.4, 0.76)** | **0.6 (0.47, 0.77)** |
|  | 4 | 1.02 (0.72, 1.45) | **0.57 (0.44, 0.74)** | **0.67 (0.51, 0.86)** | **0.63 (0.51, 0.79)** | 1.21 (0.66, 2.24) | 0.77 (0.54, 1.11) | **0.55 (0.37, 0.82)** | **0.7 (0.52, 0.94)** |
|  | 5 | 1.13 (0.74, 1.71) | **0.64 (0.47, 0.86)** | **0.7 (0.52, 0.94)** | **0.7 (0.55, 0.9)** | **2.54 (1.2, 5.38)** | **0.59 (0.37, 0.94)** | **0.47 (0.29, 0.78)** | **0.64 (0.45, 0.92)** |
| Proportion of population affiliated to the Mexican Social Security Instituted | 1 |  |  |  |  |  |  |  |  |
|  | 2 | 0.91 (0.66, 1.25) | 0.94 (0.76, 1.16) | 0.99 (0.8, 1.22) | 0.95 (0.8, 1.13) | 0.67 (0.35, 1.28) | 0.94 (0.66, 1.34) | 0.84 (0.56, 1.25) | 0.86 (0.66, 1.13) |
|  | 3 | 1.22 (0.87, 1.73) | 0.85 (0.67, 1.07) | 0.99 (0.78, 1.25) | 0.95 (0.79, 1.15) | 1.29 (0.65, 2.57) | 1.08 (0.73, 1.58) | 0.89 (0.58, 1.37) | 1.02 (0.76, 1.38) |
|  | 4 | 1.08 (0.74, 1.57) | 0.81 (0.62, 1.06) | 0.88 (0.68, 1.15) | 0.87 (0.7, 1.07) | 1.32 (0.64, 2.75) | 0.95 (0.62, 1.44) | 0.88 (0.55, 1.4) | 0.97 (0.7, 1.35) |
|  | 5 | 1.18 (0.77, 1.83) | **0.72 (0.53, 0.99)** | 0.79 (0.58, 1.08) | 0.8 (0.62, 1.04) | 1.34 (0.59, 3.01) | 0.81 (0.5, 1.3) | 0.74 (0.44, 1.23) | 0.83 (0.57, 1.21) |
| Proportion of population with Private Health Insuranced | 1 |  |  |  |  |  |  |  |  |
|  | 2 | **1.57 (1.12, 2.19)** | 1.2 (0.96, 1.49) | 1.11 (0.9, 1.37) | **1.2 (1.01, 1.42)** | 0.97 (0.47, 1.96) | 1.05 (0.74, 1.5) | 1.08 (0.73, 1.62) | 1.05 (0.8, 1.38) |
|  | 3 | **1.43 (1.01, 2.02)** | **1.46 (1.16, 1.83)** | **1.3 (1.05, 1.61)** | **1.37 (1.15, 1.63)** | 1.35 (0.67, 2.74) | 1.05 (0.73, 1.52) | 1.31 (0.87, 1.96) | 1.16 (0.88, 1.53) |
|  | 4 | 1.21 (0.85, 1.73) | 1.15 (0.91, 1.46) | 1.23 (0.98, 1.54) | 1.17 (0.97, 1.41) | 1.27 (0.61, 2.62) | 0.86 (0.59, 1.25) | 1.09 (0.72, 1.65) | 0.98 (0.73, 1.31) |
|  | 5 | 1.34 (0.92, 1.95) | **1.34 (1.04, 1.72)** | 1.24 (0.97, 1.57) | **1.28 (1.05, 1.56)** | 1.47 (0.7, 3.08) | 0.91 (0.61, 1.34) | 1.06 (0.69, 1.63) | 1.01 (0.75, 1.37) |

Bold numbers indicates statistically significant in comparison with quintile 1 (p<0.05). Cummulative Incidence rate was defined as the confirmed symptomatic cases in the municipality’s estimated population. Case-fathality rate was defined as the confirmed deaths in confirmed symptomatic cases. aMunicipality data of 2020, bState data of 2018, cMunicipality data of 2018, dMunicipality data of 2015, eMunicipality data of 2010, fMunicipality data of 2019. £Open data from the Ministry of Health. The sample includes 175 148 confirmed cases and 20773 deaths as of June 20th, 2020. Database was downloaded the 21th of June, 2020.