

# Risk Assessment for International Dissemination of COVID-19 to the ASEAN Region

ASEAN Biodiaspora Virtual Center (ABVC)

as of September 21, 2020 (2:00 PM GMT+8)



## COVID-19: Highlights and Situation Overview

- Worldwide, there have been over 31.1 million cases and more than 963,000 deaths attributed to COVID-19.
- Indonesian government has increased the deployment of police and military personnel to improve compliance with health protocols as the nation struggles to control the rising number of COVID-19 cases and deaths. According to Indonesian authorities on September 21, Indonesian Military and National Police were joining forces to maintain higher compliance with the current health protocols to curb COVID-19 transmission. The Health Ministry reported 3,989 new confirmed COVID-19 cases on Sunday (September 20), bringing the total number of cases to 244,676.
- Myanmar announced a stay-home order for its biggest city Yangon after reporting a record daily increase in new cases of COVID-19 on Sunday (September 20). The order in Yangon, Myanmar's commercial capital, comes into effect today (September 21) and will require all employees to work from home. The health ministry said on Sunday it had recorded 671 new coronavirus cases, without saying where. Most of the recent new infections have been in Yangon. The country has reported a total of 5,541 COVID-19 cases and 92 deaths. Infections have increased to hundreds of new cases per day over the past weeks after COVID-19 reappeared in the western state of Rakhine, following weeks without a confirmed local case.
- The Philippines' president has eased an overseas travel ban on Filipino nurses and other medical workers to allow more to take jobs abroad as his government believes it has its COVID-19 outbreak under control. The President has approved the proposal of the labour ministry to expand exemptions from the ban to those who had overseas contracts and complete documents as of August 31. Most healthcare workers from the Philippines are on the front lines of the pandemic at hospitals in the United States, Europe and the Middle East. The country has the highest number of recorded COVID-19 cases in Southeast Asia with 286,743 cases.
- A self-administered robot that automates the taking of COVID-19 swab tests has been developed in Singapore, helping to reduce healthcare workers' risk of exposure to COVID-19. Clinicians from the National Cancer Centre Singapore (NCCS) and Singapore General Hospital (SGH) have partnered with Biobot Surgical, a firm specialising in medical robotics technology, to develop the SwabBot. The SwabBot is a "self-administered" robot, meaning patients can activate and terminate the process at will. When a patient is ready, they can use their chin to activate the robot and start the swabbing process. The robot then extends the swab through the nose to the back of the nasal cavity, which is typically about 10cm from the nostrils. Singapore reported 18 new COVID-19 infections on Sunday (September 20) bringing the total number of COVID-19 cases in the country to 57,576.

### Travel Advisories (new update/s)

- Myanmar: Domestic airlines announced that services have been suspended until the end of September.

### Cases and Deaths as of 21 September 2020

- As of September 21 (2PM, GMT+8), worldwide, there were **31,225,548** confirmed cases, including **965,654** deaths. Globally, Case Fatality Rate (CFR) is **3.09**.

- In **China**, there were **90,888** confirmed cases with **4,744** deaths, including deaths in Hong Kong (103) and Taiwan (7). Confirmed cases in China include confirmed cases in Hong Kong (5,010), Macau (92), and Taiwan (507).
- **609,772 confirmed cases** of COVID-19 have been reported in the ASEAN region with a total of **15,397 deaths**.

| REGION       | COUNTRY     | FIRST CONFIRMED CASE(S) | LATEST REPORT ON CONFIRMED CASE(S) | TOTAL CONFIRMED CASES | NEW CASES    | TOTAL DEATHS  | NEW DEATHS | CASE FATALITY RATE | REPORTED CASES/100,000 | REPORTED TESTS/100,000 | RT MEAN ** |
|--------------|-------------|-------------------------|------------------------------------|-----------------------|--------------|---------------|------------|--------------------|------------------------|------------------------|------------|
| ASEAN REGION | Brunei      | 10 Mar 20               | 03-Sep-20                          | 145                   | -            | 3             | -          | 2.07               | 33.47                  | NA                     | NA         |
|              | Cambodia    | 27 Jan 20               | 13-Sep-20                          | 275                   | -            | -             | -          | 0.00               | 1.67                   | NA                     | NA         |
|              | Indonesia   | 02 Mar 20               | 20-Sep-20                          | 244,676               | 3,989        | 10,315        | -          | 4.22               | 90.41                  | 604.1                  | 1.05       |
|              | Lao PDR     | 24 Mar 20               | 11-Sep-20                          | 23                    | -            | -             | -          | 0.00               | 0.32                   | NA                     | NA         |
|              | Malaysia    | 25 Jan 20               | 20-Sep-20                          | 10,219                | 52           | 130           | -          | 1.27               | 31.98                  | 4378.5                 | 0.76       |
|              | Myanmar     | 23 Mar 20               | 20-Sep-20                          | 5,541                 | 671          | 92            | 11         | 1.66               | 10.25                  | 357.9                  | 1.47       |
|              | Philippines | 30 Jan 20               | 20-Sep-20                          | 286,743               | 3,311        | 4,984         | 54         | 1.74               | 265.22                 | 2828.8                 | 0.98       |
|              | Singapore   | 23 Jan 20               | 20-Sep-20                          | 57,576                | 18           | 27            | -          | 0.05               | 1009.47                | 15109.3                | 0.53       |
|              | Thailand    | 13 Jan 20               | 20-Sep-20                          | 3,506                 | 6            | 59            | -          | 1.68               | 5.04                   | 624.4                  | 0.98       |
|              | Vietnam     | 23 Jan 20               | 18-Sep-20                          | 1,068                 | -            | 35            | -          | 3.28               | 1.11                   | 139.7                  | NA         |
|              |             |                         |                                    | <b>609,772</b>        | <b>8,047</b> | <b>15,645</b> | <b>65</b>  |                    |                        |                        |            |

\*The calculated CFR is based on reported deaths and reported case counts, and does not account for recovered cases over time or rate of testing in a particular region

\*\*Rt Transmission Rate: the average number of secondary cases caused by each infectious individual, based on the daily incidence of new cases over the previous seven days

- **30,524,888 confirmed cases** of COVID-19 have been reported in **205 countries/states** (other than China, Hong Kong, Taiwan, Macau, and ASEAN countries):

| REGION           | COUNTRY     | FIRST CONFIRMED CASE(S) | LATEST REPORT ON CONFIRMED CASE(S) | TOTAL CONFIRMED CASES | NEW CASES | TOTAL DEATHS | NEW DEATHS | CASE FATALITY RATIO |
|------------------|-------------|-------------------------|------------------------------------|-----------------------|-----------|--------------|------------|---------------------|
| ASIA PACIFIC     | Japan       | 16 Jan 2020             | 19-Sep-20                          | 78,073                | -         | 1,495        | -          | 1.91                |
|                  | South Korea | 20 Jan 2020             | 20-Sep-20                          | 22,975                | 82        | 383          | 5          | 1.67                |
|                  | Nepal       | 24 Jan 2020             | 20-Sep-20                          | 64,122                | 1,325     | 411          | 10         | 0.64                |
|                  | Australia   | 25 Jan 2020             | 20-Sep-20                          | 26,898                | 13        | 849          | 5          | 3.16                |
|                  | Sri Lanka   | 27 Jan 2020             | 20-Sep-20                          | 3,284                 | 1         | 13           | -          | 0.40                |
|                  | India       | 30 Jan 2020             | 20-Sep-20                          | 5,485,612             | 92,967    | 87,909       | 1,205      | 1.60                |
|                  | Afghanistan | 24 Feb 2020             | 20-Sep-20                          | 39,044                | 125       | 1,441        | 4          | 3.69                |
|                  | Pakistan    | 26 Feb 2020             | 20-Sep-20                          | 305,671               | 640       | 6,416        | 1          | 2.10                |
|                  | New Zealand | 28 Feb 2020             | 20-Sep-20                          | 1,815                 | 4         | 25           | -          | 1.38                |
|                  | Bhutan      | 05 Mar 2020             | 20-Sep-20                          | 259                   | 1         | -            | -          | -                   |
|                  | Maldives    | 07 Mar 2020             | 20-Sep-20                          | 9,724                 | 75        | 33           | -          | 0.34                |
|                  | Bangladesh  | 08 Mar 2020             | 20-Sep-20                          | 348,918               | 1,546     | 4,939        | 26         | 1.42                |
|                  | Mongolia    | 10 Mar 2020             | 20-Sep-20                          | 312                   | 1         | -            | -          | -                   |
|                  | Turkey      | 10 Mar 2020             | 20-Sep-20                          | 302,867               | 1,519     | 7,506        | 61         | 2.48                |
| French Polynesia | 12 Mar 2020 | 20-Sep-20               | 1,271                              | 62                    | 2         | -            | 0.16       |                     |

|                 |                                      |             |           |           |        |         |     |       |
|-----------------|--------------------------------------|-------------|-----------|-----------|--------|---------|-----|-------|
|                 | <b>Guam</b>                          | 15 Mar 2020 | 18-Sep-20 | 2,074     | -      | 31      | -   | 1.49  |
|                 | <b>New Caledonia</b>                 | 17 Mar 2020 | 04-Sep-20 | 26        | -      | -       | -   |       |
|                 | <b>Fiji</b>                          | 18 Mar 2020 | 09-Sep-20 | 32        | -      | 2       | -   | 6.25  |
|                 | <b>Papua New Guinea</b>              | 21 Mar 2020 | 20-Sep-20 | 517       | 1      | 7       | 1   | 1.35  |
|                 | <b>Timor Leste</b>                   | 21 Mar 2020 | 27-Aug-20 | 27        | -      | -       | -   |       |
|                 | <b>Northern Mariana Islands</b>      | 28 Mar 2020 | 17-Sep-20 | 62        | -      | 2       | -   | 3.23  |
|                 | <b>North Korea</b>                   | 24 Jul 2020 | 24-Jul-20 | 1         | -      | -       | -   |       |
| <b>AMERICAS</b> | <b>USA</b>                           | 21 Jan 2020 | 20-Sep-20 | 6,993,927 | 28,442 | 204,018 | 286 | 2.92  |
|                 | <b>Canada</b>                        | 25 Jan 2020 | 20-Sep-20 | 143,649   | 875    | 9,256   | 6   | 6.44  |
|                 | <b>Brazil</b>                        | 26 Feb 2020 | 20-Sep-20 | 4,528,347 | 107    | 136,565 | 708 | 3.02  |
|                 | <b>Mexico</b>                        | 28 Feb 2020 | 20-Sep-20 | 694,121   | 5,167  | 73,258  | 455 | 10.55 |
|                 | <b>Saint Martin</b>                  | 01 Mar 2020 | 15-Sep-20 | 330       | -      | 6       | -   | 1.82  |
|                 | <b>Ecuador</b>                       | 01 Mar 2020 | 20-Sep-20 | 126,419   | 799    | 11,090  | 46  | 8.77  |
|                 | <b>Dominican Republic</b>            | 01 Mar 2020 | 20-Sep-20 | 108,289   | 589    | 2,047   | 3   | 1.89  |
|                 | <b>Chile</b>                         | 03 Mar 2020 | 20-Sep-20 | 446,274   | 1,600  | 12,286  | 32  | 2.75  |
|                 | <b>Argentina</b>                     | 03 Mar 2020 | 19-Sep-20 | 613,658   | -      | 12,705  | -   | 2.07  |
|                 | <b>Peru</b>                          | 05 Mar 2020 | 19-Sep-20 | 762,865   | -      | 31,283  | -   | 4.10  |
|                 | <b>Costa Rica</b>                    | 06 Mar 2020 | 19-Sep-20 | 63,712    | -      | 706     | -   | 1.11  |
|                 | <b>Colombia</b>                      | 06 Mar 2020 | 19-Sep-20 | 780,279   | -      | 24,039  | -   | 3.08  |
|                 | <b>French Guiana</b>                 | 06 Mar 2020 | 19-Sep-20 | 9,692     | -      | 65      | -   | 0.67  |
|                 | <b>Martinique</b>                    | 06 Mar 2020 | 16-Sep-20 | 1,122     | -      | 18      | -   | 1.60  |
|                 | <b>Paraguay</b>                      | 07 Mar 2020 | 20-Sep-20 | 33,015    | 888    | 636     | 25  | 1.93  |
|                 | <b>Panama</b>                        | 10 Mar 2020 | 19-Sep-20 | 105,601   | -      | 2,229   | -   | 2.11  |
|                 | <b>Bolivia</b>                       | 10 Mar 2020 | 20-Sep-20 | 130,470   | 419    | 7,586   | 36  | 5.81  |
|                 | <b>Honduras</b>                      | 11 Mar 2020 | 20-Sep-20 | 71,143    | 532    | 2,166   | 20  | 3.04  |
|                 | <b>Cuba</b>                          | 11 Mar 2020 | 20-Sep-20 | 5,091     | 36     | 115     | 2   | 2.26  |
|                 | <b>Guyana</b>                        | 11 Mar 2020 | 19-Sep-20 | 2,168     | -      | 64      | -   | 2.95  |
|                 | <b>Jamaica</b>                       | 12 Mar 2020 | 20-Sep-20 | 4,988     | 230    | 67      | 12  | 1.34  |
|                 | <b>St Vincent and the Grenadines</b> | 12 Mar 2020 | 12-Sep-20 | 64        | -      | -       | -   |       |
|                 | <b>Saint Lucia</b>                   | 13 Mar 2020 | 09-Sep-20 | 27        | -      | -       | -   |       |
|                 | <b>Trinidad and Tobago</b>           | 13 Mar 2020 | 20-Sep-20 | 3,853     | 114    | 61      | 1   | 1.58  |
|                 | <b>Venezuela</b>                     | 13 Mar 2020 | 20-Sep-20 | 65,949    | 775    | 539     | 9   | 0.82  |
|                 | <b>Guatemala</b>                     | 13 Mar 2020 | 19-Sep-20 | 85,152    | -      | 3,105   | -   | 3.65  |
|                 | <b>Uruguay</b>                       | 13 Mar 2020 | 20-Sep-20 | 1,904     | 14     | 46      | -   | 2.42  |
|                 | <b>Curacao</b>                       | 13 Mar 2020 | 20-Sep-20 | 247       | 19     | 1       | -   | 0.40  |
|                 | <b>Puerto Rico</b>                   | 13 Mar 2020 | 20-Sep-20 | 41,838    | 845    | 608     | 3   | 1.45  |
|                 | <b>Suriname</b>                      | 13 Mar 2020 | 20-Sep-20 | 4,709     | 18     | 97      | 1   | 2.06  |
|                 | <b>Antigua and Barbuda</b>           | 13 Mar 2020 | 20-Sep-20 | 96        | 1      | 3       | -   | 3.13  |
|                 | <b>Guadeloupe</b>                    | 13 Mar 2020 | 16-Sep-20 | 3,426     | -      | 26      | -   | 0.76  |

|  |             |           |           |       |        |    |       |
|--|-------------|-----------|-----------|-------|--------|----|-------|
| <b>Cayman Islands</b>                  | 13 Mar 2020 | 10-Sep-20 | 208       | -     | 1      | -  | 0.48  |
| <b>Aruba</b>                           | 14 Mar 2020 | 20-Sep-20 | 3,551     | 91    | 23     | -  | 0.65  |
| <b>Bahamas</b>                         | 15 Mar 2020 | 20-Sep-20 | 3,214     | 37    | 73     | 4  | 2.27  |
| <b>US Virgin Islands</b>               | 16 Mar 2020 | 18-Sep-20 | 1,242     | -     | 19     | -  | 1.53  |
| <b>Sint Maarten</b>                    | 17 Mar 2020 | 20-Sep-20 | 584       | 10    | 20     | -  | 3.42  |
| <b>Montserrat</b>                      | 17 Mar 2020 | 03-Aug-20 | 13        | -     | 1      | -  | 7.69  |
| <b>Barbados</b>                        | 17 Mar 2020 | 17-Sep-20 | 185       | -     | 7      | -  | 3.78  |
| <b>El Salvador</b>                     | 18 Mar 2020 | 20-Sep-20 | 27,553    | 125   | 811    | 3  | 2.94  |
| <b>Nicaragua</b>                       | 18 Mar 2020 | 19-Sep-20 | 4,961     | -     | 147    | -  | 2.96  |
| <b>Bermuda</b>                         | 18 Mar 2020 | 20-Sep-20 | 180       | 2     | 9      | -  | 5.00  |
| <b>Haiti</b>                           | 19 Mar 2020 | 18-Sep-20 | 8,600     | -     | 221    | -  | 2.57  |
| <b>Dominica</b>                        | 22 Mar 2020 | 10-Sep-20 | 24        | -     | -      | -  |       |
| <b>Grenada</b>                         | 22 Mar 2020 | 30-Jul-20 | 24        | -     | -      | -  |       |
| <b>Belize</b>                          | 23 Mar 2020 | 20-Sep-20 | 1,606     | 16    | 20     | -  | 1.25  |
| <b>Turks and Caicos Islands</b>        | 23 Mar 2020 | 20-Sep-20 | 668       | 1     | 5      | -  | 0.75  |
| <b>Saint Kitts and Nevis</b>           | 24 Mar 2020 | 12-Jul-20 | 17        | -     | -      | -  |       |
| <b>British Virgin Islands</b>          | 25 Mar 2020 | 18-Sep-20 | 69        | -     | 1      | -  | 1.45  |
| <b>Anguilla</b>                        | 26 Mar 2020 | 03-Apr-20 | 3         | -     | -      | -  |       |
| <b>Caribbean Netherlands</b>           | 01 Apr 2020 | 18-Sep-20 | 36        | -     | 1      | -  | 2.78  |
| <b>Falkland Islands</b>                | 03 Apr 2020 | 25-Apr-20 | 13        | -     | -      | -  |       |
| <b>Saint Pierre and Miquelon</b>       | 05 Apr 2020 | 20-Sep-20 | 11        | 2     | -      | -  |       |
| <b>Saint Barthelemy</b>                | 25 Jul 2020 | 20-Sep-20 | 23        | 2     | -      | -  |       |
| <b>EUROPE</b>                          |             |           |           |       |        |    |       |
| <b>France</b>                          | 24 Jan 2020 | 19-Sep-20 | 442,194   | -     | 31,274 | -  | 7.07  |
| <b>Germany</b>                         | 27 Jan 2020 | 20/092020 | 273,057   | 1,177 | 9,466  | -  | 3.47  |
| <b>Finland</b>                         | 29 Jan 2020 | 20-Sep-20 | 8,980     | 58    | 339    | -  | 3.78  |
| <b>Italy</b>                           | 30 Jan 2020 | 20-Sep-20 | 298,156   | 1,587 | 35,707 | 15 | 11.98 |
| <b>Russian Federation</b>              | 31 Jan 2020 | 20-Sep-20 | 1,103,399 | 6,148 | 19,418 | 79 | 1.76  |
| <b>Spain</b>                           | 31 Jan 2020 | 18-Sep-20 | 640,040   | -     | 30,495 | -  | 4.76  |
| <b>Sweden</b>                          | 31 Jan 2020 | 18-Sep-20 | 88,237    | -     | 5,865  | -  | 6.65  |
| <b>United Kingdom of Great Britain</b> | 31 Jan 2020 | 20-Sep-20 | 394,257   | 3,899 | 41,777 | 18 | 10.60 |
| <b>Belgium</b>                         | 05 Feb 2020 | 20-Sep-20 | 100,748   | 1,099 | 9,944  | 7  | 9.87  |
| <b>Switzerland</b>                     | 25 Feb 2020 | 18-Sep-20 | 49,283    | -     | 2,045  | -  | 4.15  |
| <b>Austria</b>                         | 25 Feb 2020 | 20-Sep-20 | 38,095    | 621   | 766    | 1  | 2.01  |
| <b>Croatia</b>                         | 25 Feb 2020 | 20-Sep-20 | 14,922    | 197   | 248    | 4  | 1.66  |
| <b>Norway</b>                          | 26 Feb 2020 | 20-Sep-20 | 12,883    | 25    | 267    | -  | 2.07  |
| <b>Romania</b>                         | 26 Feb 2020 | 20-Sep-20 | 112,781   | 1,231 | 4,435  | 33 | 3.93  |
| <b>Estonia</b>                         | 26 Feb 2020 | 20-Sep-20 | 2,924     | 49    | 64     | -  | 2.19  |

|                               |             |           |         |       |       |    |      |
|-------------------------------|-------------|-----------|---------|-------|-------|----|------|
| <b>Georgia</b>                | 26 Feb 2020 | 20-Sep-20 | 3,502   | 196   | 19    | -  | 0.54 |
| <b>North Macedonia</b>        | 26 Feb 2020 | 20-Sep-20 | 16,735  | 178   | 693   | 4  | 4.14 |
| <b>Greece</b>                 | 26 Feb 2020 | 20-Sep-20 | 15,142  | 164   | 338   | 7  | 2.23 |
| <b>Denmark</b>                | 27 Feb 2020 | 20-Sep-20 | 22,905  | 469   | 638   | 3  | 2.79 |
| <b>San Marino</b>             | 27 Feb 2020 | 15-Sep-20 | 723     | -     | 42    | -  | 5.81 |
| <b>Lithuania</b>              | 27 Feb 2020 | 20-Sep-20 | 3,744   | 80    | 87    | -  | 2.32 |
| <b>Netherlands</b>            | 27 Feb 2020 | 20-Sep-20 | 93,778  | 1,844 | 6,279 | 4  | 6.70 |
| <b>Azerbaijan</b>             | 27 Feb 2020 | 20-Sep-20 | 39,188  | 146   | 575   | 1  | 1.47 |
| <b>Belarus</b>                | 28 Feb 2020 | 20-Sep-20 | 75,674  | 213   | 780   | 4  | 1.03 |
| <b>Iceland</b>                | 28 Feb 2020 | 19-Sep-20 | 2,307   | -     | 10    | -  | 0.43 |
| <b>Ireland</b>                | 28 Feb 2020 | 20-Sep-20 | 32,933  | 395   | 1,792 | -  | 5.44 |
| <b>Monaco</b>                 | 29 Feb 2020 | 20-Sep-20 | 192     | 1     | 1     | -  | 0.52 |
| <b>Czech Republic</b>         | 01 Mar 2020 | 20-Sep-20 | 48,881  | 1,596 | 502   | 7  | 1.03 |
| <b>Luxembourg</b>             | 01 Mar 2020 | 20-Sep-20 | 7,804   | 86    | 124   | -  | 1.59 |
| <b>Armenia</b>                | 01 Mar 2020 | 20-Sep-20 | 47,431  | 277   | 930   | 2  | 1.96 |
| <b>Latvia</b>                 | 02 Mar 2020 | 20-Sep-20 | 1,525   | 10    | 36    | -  | 2.36 |
| <b>Portugal</b>               | 02 Mar 2020 | 20-Sep-20 | 68,577  | 552   | 1,912 | 13 | 2.79 |
| <b>Andorra</b>                | 02 Mar 2020 | 18-Sep-20 | 1,564   | -     | 53    | -  | 3.39 |
| <b>Liechtenstein</b>          | 03 Mar 2020 | 19-Sep-20 | 113     | -     | 1     | -  | 0.88 |
| <b>Ukraine</b>                | 03 Mar 2020 | 20-Sep-20 | 175,678 | 2,966 | 3,557 | 41 | 2.02 |
| <b>Slovenia</b>               | 04 Mar 2020 | 20-Sep-20 | 4,420   | 111   | 142   | 1  | 3.21 |
| <b>Hungary</b>                | 04 Mar 2020 | 19-Sep-20 | 16,920  | -     | 675   | -  | 3.99 |
| <b>Poland</b>                 | 04 Mar 2020 | 20-Sep-20 | 79,240  | 910   | 2,293 | 11 | 2.89 |
| <b>Faroe Islands</b>          | 04 Mar 2020 | 19-Sep-20 | 431     | -     | -     | -  |      |
| <b>Bosnia and Herzegovina</b> | 05 Mar 2020 | 20-Sep-20 | 25,428  | 211   | 763   | 5  | 3.00 |
| <b>Gibraltar</b>              | 05 Mar 2020 | 19-Sep-20 | 350     | -     | -     | -  |      |
| <b>Slovakia</b>               | 06 Mar 2020 | 20-Sep-20 | 6,677   | 131   | 39    | -  | 0.58 |
| <b>Serbia</b>                 | 06 Mar 2020 | 20-Sep-20 | 32,908  | 68    | 741   | 1  | 2.25 |
| <b>Vatican City</b>           | 06 Mar 2020 | 08-May-20 | 12      | -     | -     | -  |      |
| <b>Malta</b>                  | 07 Mar 2020 | 20-Sep-20 | 2,731   | 32    | 20    | 1  | 0.73 |
| <b>Moldova</b>                | 07 Mar 2020 | 20-Sep-20 | 46,596  | 260   | 1,203 | 2  | 2.58 |
| <b>Bulgaria</b>               | 08 Mar 2020 | 19-Sep-20 | 18,819  | -     | 755   | -  | 4.01 |
| <b>Albania</b>                | 09 Mar 2020 | 20-Sep-20 | 12,385  | 159   | 362   | 4  | 2.92 |
| <b>Cyprus</b>                 | 09 Mar 2020 | 19-Sep-20 | 1,580   | -     | 22    | -  | 1.39 |
| <b>Channel Islands</b>        | 09 Mar 2020 | 18-Sep-20 | 255     | -     | 16    | -  | 6.27 |
| <b>Jersey</b>                 | 10 Mar 2020 | 17-Sep-20 | 391     | -     | 32    | -  | 8.18 |
| <b>Kazakhstan</b>             | 13 Mar 2020 | 20-Sep-20 | 107,262 | 63    | 1,671 | -  | 1.56 |
| <b>Kosovo</b>                 | 13 Mar 2020 | 20-Sep-20 | 15,063  | 181   | 613   | 6  | 4.07 |
| <b>Uzbekistan</b>             | 15 Mar 2020 | 20-Sep-20 | 51,235  | 243   | 429   | 6  | 0.84 |
| <b>Greenland</b>              | 16 Mar 2020 | 27-Jul-20 | 14      | -     | -     | -  |      |
| <b>Montenegro</b>             | 17 Mar 2020 | 20-Sep-20 | 7,898   | 187   | 134   | 1  | 1.70 |
| <b>Kyrgyzstan</b>             | 18 Mar 2020 | 19-Sep-20 | 45,335  | -     | 1,063 | -  | 2.34 |
| <b>Isle of Man</b>            | 19 Mar 2020 | 14-Sep-20 | 339     | -     | 24    | -  | 7.08 |

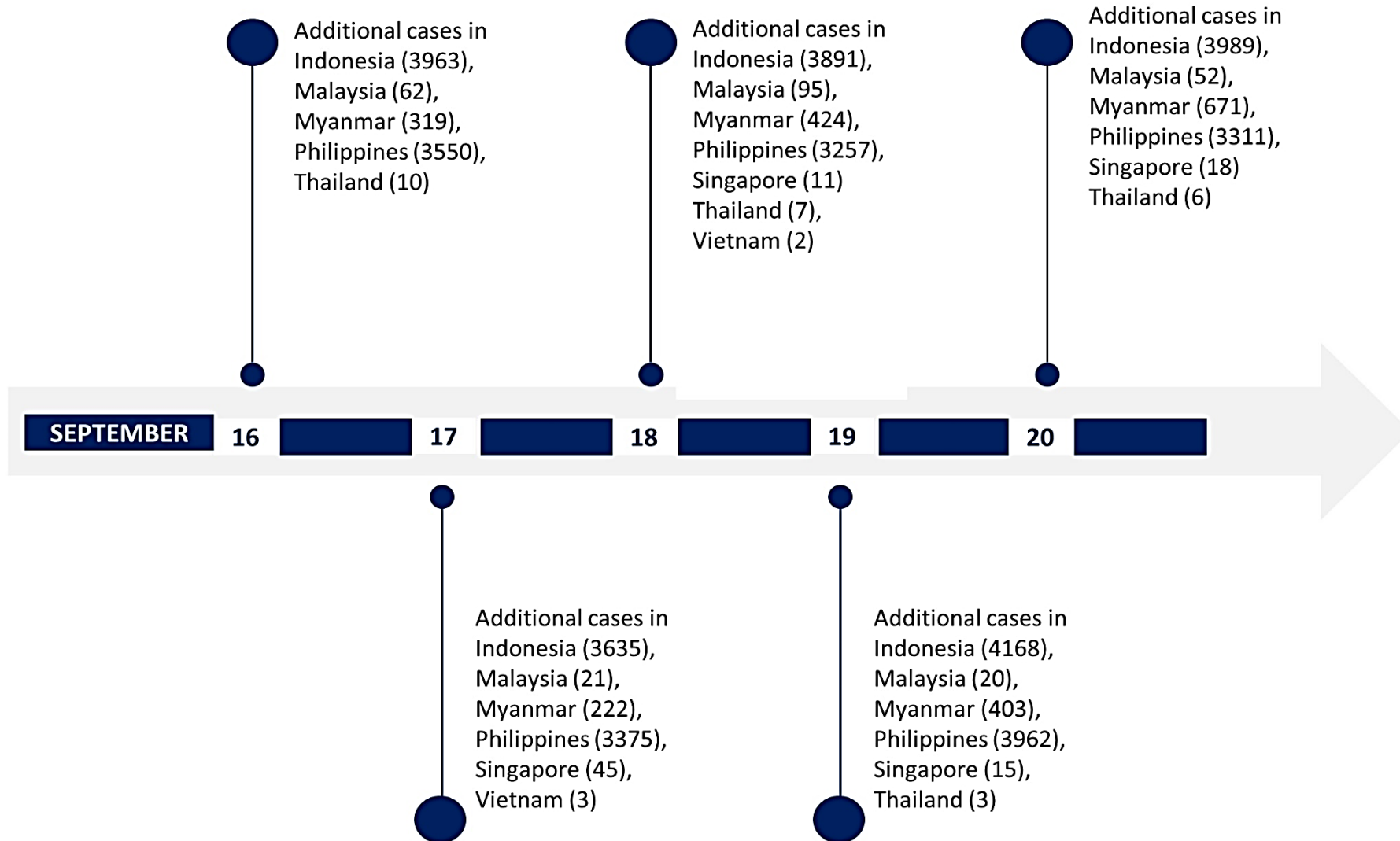
|                    |                                     |             |           |         |       |        |      |       |
|--------------------|-------------------------------------|-------------|-----------|---------|-------|--------|------|-------|
|                    | <b>Tajikistan</b>                   | 30 Apr 2020 | 20-Sep-20 | 9,346   | 43    | 73     | -    | 0.78  |
| <b>MIDDLE EAST</b> | <b>UAE</b>                          | 29 Jan 2020 | 20-Sep-20 | 84,916  | 674   | 404    | -    | 0.48  |
|                    | <b>Iran</b>                         | 19 Feb 2020 | 20-Sep-20 | 422,140 | 3,097 | 24,301 | 183  | 5.76  |
|                    | <b>Israel</b>                       | 21 Feb 2020 | 20-Sep-20 | 187,396 | 3,794 | 1,236  | 10   | 0.66  |
|                    | <b>Lebanon</b>                      | 21 Feb 2020 | 20-Sep-20 | 29,303  | 1,006 | 297    | 11   | 1.01  |
|                    | <b>Kuwait</b>                       | 24 Feb 2020 | 20-Sep-20 | 99,434  | 385   | 584    | 3    | 0.59  |
|                    | <b>Oman</b>                         | 24 Feb 2020 | 20-Sep-20 | 93,475  | 1,722 | 846    | 28   | 0.91  |
|                    | <b>Bahrain</b>                      | 24 Feb 2020 | 19-Sep-20 | 64,499  | -     | 221    | -    | 0.34  |
|                    | <b>Iraq</b>                         | 24 Feb 2020 | 20-Sep-20 | 319,035 | 3,438 | 8,555  | 64   | 2.68  |
|                    | <b>Qatar</b>                        | 29 Feb 2020 | 20-Sep-20 | 123,376 | 230   | 210    | 1    | 0.17  |
|                    | <b>Saudi Arabia</b>                 | 02 Mar 2020 | 20-Sep-20 | 329,754 | 483   | 4,485  | 27   | 1.36  |
|                    | <b>Jordan</b>                       | 02 Mar 2020 | 20-Sep-20 | 4,779   | 239   | 30     | -    | 0.63  |
|                    | <b>Palestine</b>                    | 05 Mar 2020 | 20-Sep-20 | 45,446  | 683   | 300    | 9    | 0.66  |
|                    | <b>Syria</b>                        | 22 Mar 2020 | 19-Sep-20 | 3,765   | -     | 170    | -    | 4.52  |
|                    | <b>Yemen</b>                        | 10 Apr 2020 | 19-Sep-20 | 2,026   | -     | 586    | 1    | 28.92 |
| <b>AFRICA</b>      | <b>Egypt</b>                        | 14 Feb 2020 | 19-Sep-20 | 101,900 | -     | 5,750  | -    | 5.64  |
|                    | <b>Algeria</b>                      | 25 Feb 2020 | 20-Sep-20 | 49,826  | 203   | 1,672  | 7    | 3.36  |
|                    | <b>Nigeria</b>                      | 28 Feb 2020 | 19-Sep-20 | 57,145  | -     | 1,095  | -    | 1.92  |
|                    | <b>Tunisia</b>                      | 02 Mar 2020 | 20-Sep-20 | 9,736   | 626   | 155    | 17   | 1.59  |
|                    | <b>Morocco</b>                      | 02 Mar 2020 | 20-Sep-20 | 101,743 | 1,927 | 1,830  | 35   | 1.80  |
|                    | <b>Senegal</b>                      | 02 Mar 2020 | 20-Sep-20 | 14,714  | 26    | 302    | -    | 2.05  |
|                    | <b>South Africa</b>                 | 05 Mar 2020 | 20-Sep-20 | 661,211 | 1,555 | 15,953 | 13   | 2.41  |
|                    | <b>Cameroon</b>                     | 06 Mar 2020 | 19-Sep-20 | 20,431  | -     | 416    | -    | 2.04  |
|                    | <b>Togo</b>                         | 06 Mar 2020 | 19-Sep-20 | 1,659   | -     | 41     | -    | 2.47  |
|                    | <b>Burkina Faso</b>                 | 09 Mar 2020 | 19-Sep-20 | 1,816   | -     | 56     | -    | 3.08  |
|                    | <b>Democratic Republic of Congo</b> | 10 Mar 2020 | 20-Sep-20 | 10,515  | 27    | 271    | 3    | 2.58  |
|                    | <b>Ivory Coast</b>                  | 11 Mar 2020 | 19-Sep-20 | 19,269  | -     | 120    | -    | 0.62  |
|                    | <b>Reunion</b>                      | 11 Mar 2020 | 18-Sep-20 | 3,194   | -     | 15     | -    | 0.47  |
|                    | <b>Ghana</b>                        | 13 Mar 2020 | 20-Sep-20 | 46,004  | 127   | 297    | 2    | 0.65  |
|                    | <b>Guinea</b>                       | 13 Mar 2020 | 20-Sep-20 | 10,286  | 55    | 63     | -    | 0.61  |
|                    | <b>Gabon</b>                        | 13 Mar 2020 | 19-Sep-20 | 8,696   | -     | 53     | -    | 0.61  |
|                    | <b>Sudan</b>                        | 13 Mar 2020 | 14-Sep-20 | 13,535  | -     | 836    | -    | 6.18  |
|                    | <b>Kenya</b>                        | 13 Mar 2020 | 20-Sep-20 | 36,981  | 152   | 648    | 2    | 1.75  |
|                    | <b>Ethiopia</b>                     | 13 Mar 2020 | 20-Sep-20 | 68,820  | 689   | 1,096  | 7    | 1.59  |
|                    | <b>Central African Republic</b>     | 14 Mar 2020 | 18-Sep-20 | 4,786   | -     | 62     | -    | 1.30  |
|                    | <b>Seychelles</b>                   | 14 Mar 2020 | 17-Sep-20 | 141     | -     | -      | -    | -     |
|                    | <b>Rwanda</b>                       | 14 Mar 2020 | 19-Sep-20 | 4,689   | -     | 26     | -    | 0.55  |
|                    | <b>Namibia</b>                      | 14 Mar 2020 | 20-Sep-20 | 10,377  | 85    | 112    | 1    | 1.08  |
|                    | <b>Swaziland</b>                    | 14 Mar 2020 | 19-Sep-20 | 5,245   | -     | 104    | -    | 1.98  |
|                    | <b>Mauritania</b>                   | 14 Mar 2020 | 19-Sep-20 | 7,365   | -     | 161    | -    | 2.19  |
|                    | <b>Mayotte</b>                      | 14 Mar 2020 | 18-Sep-20 | 3,541   | -     | 40     | -    | 1.13  |
|                    | <b>Equatorial Guinea</b>            | 15 Mar 2020 | 17-Sep-20 | 5,002   | -     | 83     | -    | 1.66  |
|                    | <b>Republic of Congo</b>            | 15 Mar 2020 | 19-Sep-20 | 4,986   | -     | 89     | -    | 1.78  |
|                    | <b>Benin</b>                        | 16 Mar 2020 | 17-Sep-20 | 2,280   | -     | 40     | -    | 1.75  |
|                    | <b>Liberia</b>                      | 16 Mar 2020 | 18-Sep-20 | 1,335   | -     | 82     | -    | 6.14  |
|                    | <b>Tanzania</b>                     | 16 Mar 2020 | 15-May-20 | 509     | -     | 21     | -    | 4.13  |
|                    | <b>Somalia</b>                      | 16 Mar 2020 | 20-Sep-20 | 3,442   | 41    | 98     | -    | 2.85  |
| <b>Gambia</b>      | 17 Mar 2020                         | 19-Sep-20   | 3,504     | -       | 108   | -      | 3.08 |       |
| <b>Zambia</b>      | 17 Mar 2020                         | 20-Sep-20   | 14,131    | 109     | 330   | 1      | 2.34 |       |
| <b>Mauritius</b>   | 18 Mar 2020                         | 17-Sep-20   | 366       | -       | 10    | -      | 2.73 |       |
| <b>Djibouti</b>    | 18 Mar 2020                         | 18-Sep-20   | 5,403     | -       | 61    | -      | 1.13 |       |

|                              |             |           |                   |                |                |              |      |
|------------------------------|-------------|-----------|-------------------|----------------|----------------|--------------|------|
| <b>Niger</b>                 | 19 Mar 2020 | 18-Sep-20 | 1,183             | -              | 69             | -            | 5.83 |
| <b>Chad</b>                  | 19 Mar 2020 | 19-Sep-20 | 1,149             | -              | 81             | -            | 7.05 |
| <b>Zimbabwe</b>              | 20 Mar 2020 | 19-Sep-20 | 7,672             | -              | 225            | -            | 2.93 |
| <b>Cape Verde</b>            | 20 Mar 2020 | 19-Sep-20 | 5,186             | -              | 50             | -            | 0.96 |
| <b>Madagascar</b>            | 20 Mar 2020 | 20-Sep-20 | 16,053            | 33             | 223            | 4            | 1.39 |
| <b>Uganda</b>                | 21 Mar 2020 | 20-Sep-20 | 6,287             | 270            | 63             | -            | 1.00 |
| <b>Eritrea</b>               | 21 Mar 2020 | 15-Sep-20 | 364               | -              | -              | -            |      |
| <b>Angola</b>                | 21 Mar 2020 | 19-Sep-20 | 3,901             | -              | 147            | -            | 3.77 |
| <b>Mozambique</b>            | 22 Mar 2020 | 20-Sep-20 | 6,771             | 234            | 43             | 2            | 0.64 |
| <b>Libya</b>                 | 24 Mar 2020 | 20-Sep-20 | 27,949            | 715            | 444            | 8            | 1.59 |
| <b>Guinea-Bissau</b>         | 25 Mar 2020 | 19-Sep-20 | 2,303             | -              | 39             | -            | 1.69 |
| <b>Mali</b>                  | 25 Mar 2020 | 20-Sep-20 | 3,013             | 7              | 128            | -            | 4.25 |
| <b>Botswana</b>              | 30 Mar 2020 | 17-Sep-20 | 2,567             | -              | 13             | -            | 0.51 |
| <b>Sierra Leone</b>          | 31 Mar 2020 | 20-Sep-20 | 2,168             | 9              | 72             | -            | 3.32 |
| <b>Burundi</b>               | 31 Mar 2020 | 18-Sep-20 | 473               | -              | 1              | -            | 0.21 |
| <b>Malawi</b>                | 02 Apr 2020 | 20-Sep-20 | 5,731             | 13             | 179            | -            | 3.12 |
| <b>South Sudan</b>           | 05 Apr 2020 | 19-Sep-20 | 2,642             | -              | 49             | -            | 1.85 |
| <b>Sao Tome and Principe</b> | 06 Apr 2020 | 18-Sep-20 | 908               | -              | 15             | -            | 1.65 |
| <b>Comoros</b>               | 30 Apr 2020 | 18-Sep-20 | 470               | -              | 7              | -            | 1.49 |
| <b>Lesotho</b>               | 13May 2020  | 19-Sep-20 | 1,390             | -              | 33             | -            | 2.37 |
|                              |             |           | <b>30,524,888</b> | <b>190,635</b> | <b>945,265</b> | <b>3,690</b> |      |

*\*The calculated CFR is based on reported deaths and reported case counts, and does not account for recovered cases over time or rate of testing in a particular region*



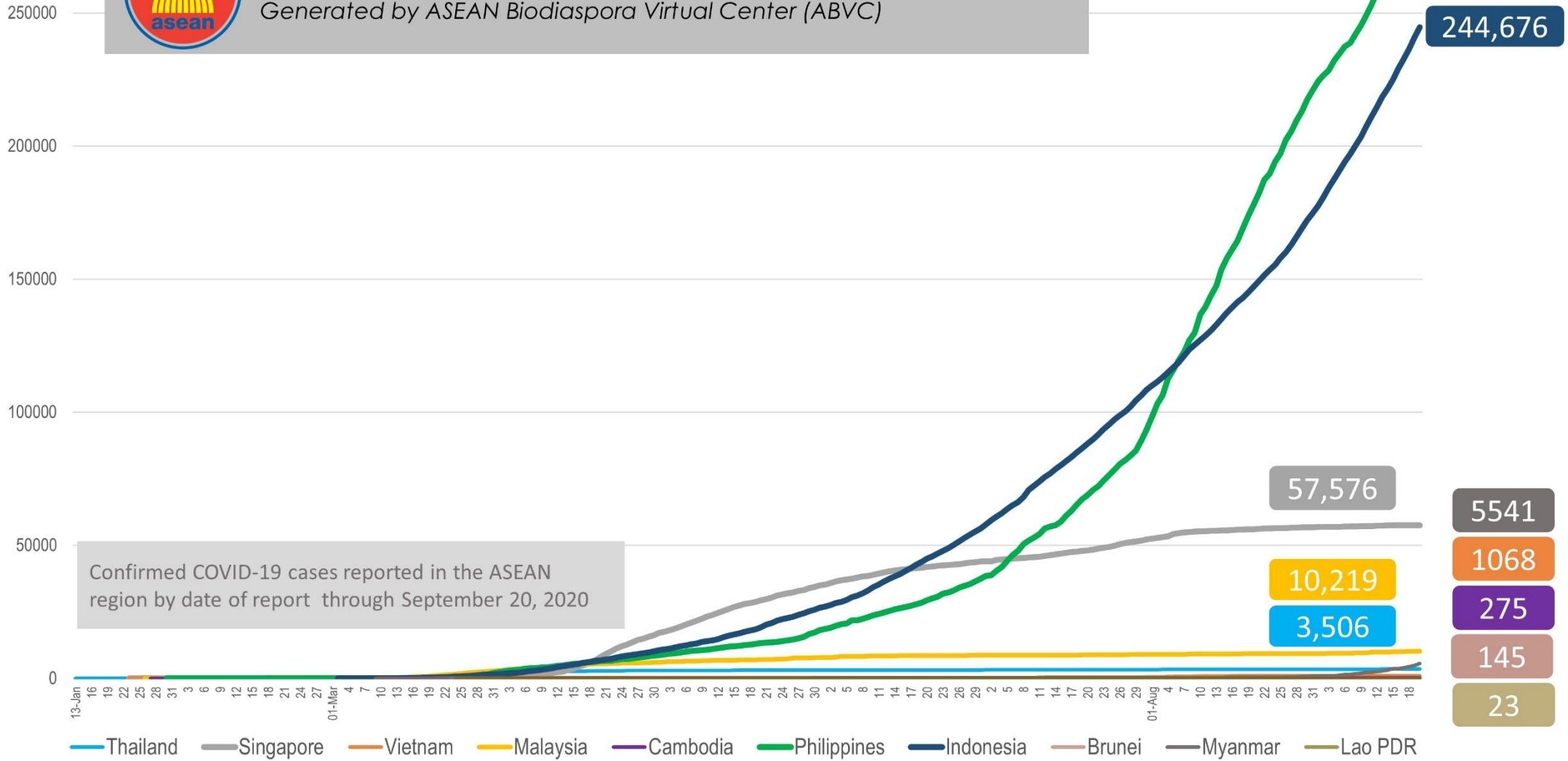
## Timeline of COVID-19: ASEAN *(continuation)*





# COVID-19 epi curve in ASEAN Member States

Generated by ASEAN Biodiaspora Virtual Center (ABVC)



# AIR TRAVEL DATA FROM INTERNATIONAL COUNTRIES TO ASEAN MEMBER STATES (AMS)

**Table 1.** Top ranking international countries with estimated number of travelers to **Brunei** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats* |
|------|-------------|---------------------|---------|--------|
| 1    | Malaysia    | Brunei              | 70      | 11,710 |
| 2    | Singapore   | Brunei              | 26      | 4,168  |
| 3    | Australia   | Brunei              | 17      | 3,902  |
| 4    | China       | Brunei              | 19      | 3,162  |
| 5    | Indonesia   | Brunei              | 18      | 2,700  |

\*Data is updated daily by the data provider Innovata

**Table 2.** Top ranking international countries with estimated number of travelers to **Cambodia** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats* |
|------|-------------|---------------------|---------|--------|
| 1    | China       | Cambodia            | 435     | 76,243 |
| 2    | Viet Nam    | Cambodia            | 350     | 33,052 |
| 3    | Malaysia    | Cambodia            | 177     | 31,760 |
| 4    | Thailand    | Cambodia            | 156     | 27,002 |
| 5    | South Korea | Cambodia            | 91      | 20,107 |

\*Data is updated daily by the data provider Innovata

**Table 3.** Top ranking international countries with estimated number of travelers to **Indonesia** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats*  |
|------|-------------|---------------------|---------|---------|
| 1    | Malaysia    | Indonesia           | 2,211   | 391,934 |
| 2    | Singapore   | Indonesia           | 1,236   | 237,508 |
| 3    | Australia   | Indonesia           | 316     | 67,992  |
| 4    | Japan       | Indonesia           | 183     | 51,358  |
| 5    | Hong Kong   | Indonesia           | 173     | 45,411  |

\*Data is updated daily by the data provider Innovata

**Table 4.** Top ranking international countries with estimated number of travelers to **Laos** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats* |
|------|-------------|---------------------|---------|--------|
| 1    | China       | Laos                | 155     | 25,022 |
| 2    | South Korea | Laos                | 85      | 15,921 |
| 3    | Thailand    | Laos                | 84      | 11,906 |
| 4    | Viet Nam    | Laos                | 47      | 6,402  |
| 5    | Cambodia    | Laos                | 31      | 3,562  |

\*Data is updated daily by the data provider Innovata

**Table 5.** Top ranking international countries with estimated number of travelers to **Malaysia** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats*  |
|------|-------------|---------------------|---------|---------|
| 1    | Indonesia   | Malaysia            | 2,178   | 386,164 |
| 2    | Singapore   | Malaysia            | 1,762   | 307,958 |
| 3    | China       | Malaysia            | 783     | 187,071 |
| 4    | Thailand    | Malaysia            | 726     | 130,641 |
| 5    | India       | Malaysia            | 606     | 116,418 |

\*Data is updated daily by the data provider Innovata

**Table 6.** Top ranking international countries with estimated number of travelers to **Myanmar** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats* |
|------|-------------|---------------------|---------|--------|
| 1    | Thailand    | Myanmar             | 256     | 41,844 |
| 2    | China       | Myanmar             | 225     | 38,759 |
| 3    | Singapore   | Myanmar             | 148     | 25,179 |
| 4    | India       | Myanmar             | 63      | 10,255 |
| 5    | South Korea | Myanmar             | 58      | 8,711  |

\*Data is updated daily by the data provider Innovata

**Table 7.** Top ranking international countries with estimated number of travelers to **Philippines** in month of **October 2020**.

| Rank | Origin City          | Destination Country | Flights | Seats*  |
|------|----------------------|---------------------|---------|---------|
| 1    | South Korea          | Philippines         | 1,043   | 226,244 |
| 2    | Japan                | Philippines         | 507     | 108,656 |
| 3    | United Arab Emirates | Philippines         | 194     | 70,853  |
| 4    | Singapore            | Philippines         | 360     | 70,568  |
| 5    | Hong Kong (SAR)      | Philippines         | 261     | 70,187  |

\*Data is updated daily by the data provider Innovata

**Table 8.** Top ranking international countries with estimated number of travelers to **Singapore** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats*  |
|------|-------------|---------------------|---------|---------|
| 1    | Malaysia    | Singapore           | 1,759   | 307,418 |
| 2    | Indonesia   | Singapore           | 1,274   | 244,225 |
| 3    | Thailand    | Singapore           | 687     | 146,530 |
| 4    | India       | Singapore           | 635     | 123,753 |
| 5    | Japan       | Singapore           | 436     | 119,313 |

\*Data is updated daily by the data provider Innovata

**Table 9.** Top ranking international countries with estimated number of travelers to **Thailand** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats*  |
|------|-------------|---------------------|---------|---------|
| 1    | China       | Thailand            | 1,359   | 243,921 |
| 2    | Japan       | Thailand            | 517     | 155,324 |
| 3    | South Korea | Thailand            | 584     | 147,828 |
| 4    | Singapore   | Thailand            | 682     | 144,734 |
| 5    | Malaysia    | Thailand            | 727     | 130,897 |

\*Data is updated daily by the data provider Innovata

**Table 10.** Top ranking international countries with estimated number of travelers to **Vietnam** in month of **October 2020**.

| Rank | Origin City | Destination Country | Flights | Seats*  |
|------|-------------|---------------------|---------|---------|
| 1    | South Korea | Vietnam             | 1,513   | 334,576 |
| 2    | Malaysia    | Vietnam             | 556     | 100,784 |
| 3    | Thailand    | Vietnam             | 435     | 80,514  |
| 4    | Singapore   | Vietnam             | 371     | 71,458  |
| 5    | Taiwan      | Vietnam             | 294     | 68,597  |

\*Data is updated daily by the data provider Innovata



Report generated by  
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