

Ministry of Health and Sports

Department of Public Health

Central Epidemiology Unit

Monthly Epidemio Ogy

AFP surveillance indicators by state and region, 2020*

| State/Region | <15 Population | Minimum Expected Non Polio AFP Cases (3/100,000 pop) | Total no. of reported AFP Case | Confirmed Polio cVDPV | Non-Polio AFP Case | Annualized AFP Rate | Annualized Non-Polio AFP Rates | % of Adequate Stool |
|--------------|-------------------|---|---|-----------------------------|-----------------------|------------------------|--------------------------------------|---------------------------|
| Ayeyarwady | 1,545,759 | 47 | 18 | 0 | 11 | 1.68 | 1.03 | 78 |
| Bago | 1,259,066 | 41 | 17 | 0 | 15 | 1.95 | 1.72 | 82 |
| Chin | 189,859 | 7 | 6 | 0 | 4 | 4.56 | 3.04 | 83 |
| Kachin | 462,650 | 14 | 5 | 0 | 5 | 1.56 | 1.56 | 100 |
| Kayah | 99,080 | 3 | 0 | 0 | 0 | 0.00 | 0.00 | 0 |
| Kayin | 545,984 | 15 | 8 | 0 | 7 | 2.12 | 1.85 | 100 |
| Magway | 980,108 | 28 | 13 | 0 | 13 | 1.92 | 1.92 | 100 |
| Mandalay | 1,438,254 | 44 | 6 | 0 | 6 | 0.60 | 0.60 | 100 |
| Naypyitaw | 287,686 | 9 | 1 | 0 | 1 | 0.50 | 0.50 | 100 |
| Mon | 592,217 | 17 | 2 | 0 | 1 | 0.49 | 0.24 | 100 |
| Rakhine | 800,989 | 22 | 9 | 0 | 8 | 1.62 | 1.44 | 89 |
| Sagaing | 1,398,805 | 40 | 8 | 0 | 7 | 0.83 | 0.72 | 63 |
| Shan East | 204,682 | 6 | 2 | 0 | 0 | 1.41 | 0.00 | 100 |
| Shan North | 662,674 | 21 | 3 | 0 | 2 | 0.65 | 0.44 | 100 |
| Shan South | 664,840 | 19 | 4 | 0 | 4 | 0.87 | 0.87 | 100 |
| Taninthayi | 445,742 | 12 | 10 | 0 | 7 | 3.24 | 2.27 | 100 |
| Yangon | 1,569,891 | 44 | 10 | 0 | 9 | 0.92 | 0.83 | 90 |
| Total | 13,148,286 | 389 | 122 | 0 | 100 | 1.34 | 1.10 | 89 |

Acute Flaccid Paralysis (AFP)

Total no. of expected non-polio AFP cases - 389

Annualized expected non polio AFP cases (as of week.52) - 389

Reported AFP cases - 122

cVDPV cases among AFP cases-0

cVDPV cases - 0

Discarded as non-polio AFP cases - 100

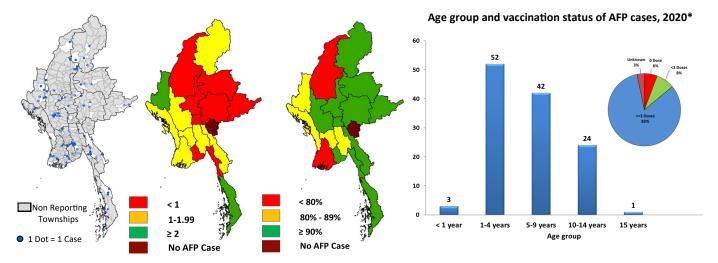
Annualized AFP rate - 1.34

Annualized non-polio AFP rate— 1.10

Percentage of adequate stool collection - 89%

Pending for classification - 22

*Data as of 31 August 2020 (week no. 36)

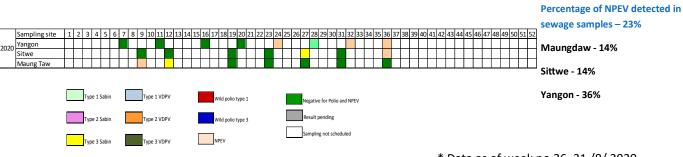


Spot Map of AFP Cases Annualized Non polio AFP rate % of Adequate stool collection

environmental surveillance in Myanmar

Poliovirus and NPEV detected in sewage samples in Myanmar by week, 2020*

Type 1 Sabin + 3 Sabin



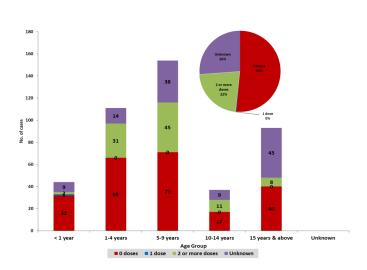
^{*} Data as of week no.36, 31 /8/ 2020

Fever with Rash Surveillance, 2020*

| | | Expected | | Con | firmed Mea | sles | | | | | Annualized |
|------------------|---------------------|--|--------------------------------|-------------------|-------------------|-------------------------|-----------|---|---------|---------------------------------------|---|
| State/ Region | Total Population | Non- measles suspected measles Cases | Suspected cases reported | Lab- confirmed | Epi- confirmed | Clinically confirmed | Rubella F | Non Measles Non Rubella Cases | Pending | Annualized incidence of measles | incidence of non-measles/ non-rubella suspected measles cases |
| Ayeyarwady | 6450505 | 129 | 55 | 19 | 4 | 1 | 1 | 30 | 0 | 3.72 | 0.47 |
| Bago | 5292074 | 106 | 53 | 17 | 10 | 1 | | 25 | 0 | 5.29 | 0.47 |
| Chin | 553704 | 11 | 3 | 0 | 0 | 2 | 0 | 1 | 0 | 3.61 | 0.18 |
| Kachin | 1742095 | 35 | 6 | 4 | 0 | 0 | 0 | 1 | 1 | 2.30 | 0.06 |
| Kayah | 326027 | 7 | 6 | 3 | 0 | 0 | 0 | 3 | 0 | 9.20 | 0.92 |
| Kayin | 1770549 | 35 | 21 | 4 | 14 | 0 | 0 | 3 | 0 | 10.17 | 0.17 |
| Magway | 4417875 | 88 | 10 | 5 | 0 | 0 | 0 | 4 | 1 | 1.13 | 0.09 |
| Mandalay | 6399793 | 128 | 61 | 30 | 20 | 8 | 0 | 3 | 0 | 9.06 | 0.05 |
| Mon | 2377706 | 48 | 28 | 7 | 8 | 2 | 0 | 11 | 0 | 7.15 | 0.46 |
| Nay Pyi Taw | 1150500 | 23 | 9 | 4 | 1 | 0 | 0 | 4 | 0 | 4.35 | 0.35 |
| Rakhine | 3033837 | 61 | 194 | 57 | 115 | 5 | 0 | 17 | 0 | 58.34 | 0.56 |
| Sagaing | 5839197 | 117 | 13 | 7 | 4 | 1 | 0 | 1 | 0 | 2.06 | 0.02 |
| Shan East | 741673 | 15 | 4 | 2 | 0 | 0 | 0 | 0 | 2 | 2.70 | 0.00 |
| Shan North | 2505404 | 50 | 7 | 5 | 0 | 0 | 1 | 1 | 0 | 2.00 | 0.04 |
| Shan South | 2487728 | 50 | 8 | 3 | 0 | 0 | 0 | 5 | 0 | 1.21 | 0.20 |
| Tanintharyi | 1603617 | 32 | 72 | 28 | 40 | 1 | 0 | 3 | 0 | 43.03 | 0.19 |
| Yangon | 7350974 | 147 | 87 | 7 | 0 | 0 | 0 | 80 | 0 | 0.95 | 1.09 |
| National | 54043258 | 1081 | 637 | 202 | 216 | 21 | 2 | 192 | 4 | 8.12 | 0.36 |

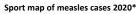
Total suspected outbreaks – 15 Confirmed measles outbreaks – 15 Non Measles/Rubella outbreaks – 0 Pending – 0

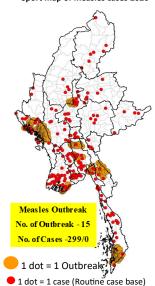
Age and vaccination Status of confirmed measles cases, 2020*(n=439)

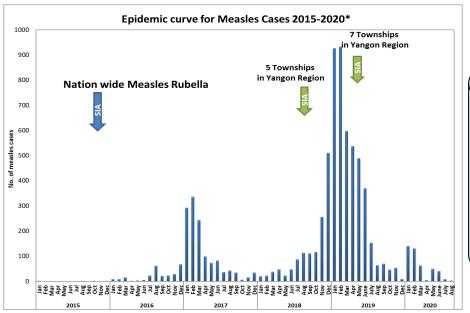


| Occurrence | of me | asles o | utbreak |
|------------|-------|---------|---------|
|------------|-------|---------|---------|

| Region | Township | | |
|--------------|--------------|--|--|
| Ayeyarwady | Pyapon | | |
| Bago (East) | Kyauktaga | | |
| Dago (Last) | Taungoo | | |
| Mon | Bilin | | |
| Kayin | Hlaingbwe | | |
| Mandalay | Pyigyi tagon | | |
| iviaituatay | Mahaaungmyay | | |
| | Ann | | |
| Rakhine | Myauk Oo | | |
| nakiiiie | Pauktaw | | |
| | Sittwe | | |
| Sagaing | Sagaing | | |
| Thanintharyi | Bokepyin | | |







CRS Surveillance, 2020*

Total no. of serum sample

received - None

Total no. of serum sample

tested - None

Data source: routine case based surveillance and outbreaks

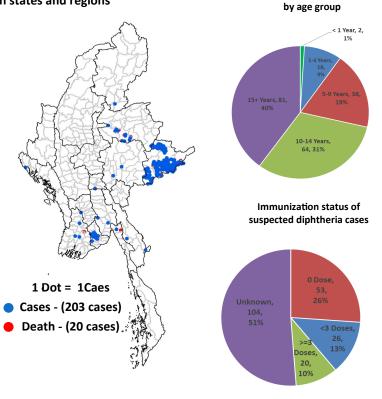
^{*} Data as of week no.36 , 31/8/2020

Suspected diphtheria cases

Diphtheria, 2020*

Reported suspected diphtheria cases and deaths in states and regions

| State/Region | Total no. of cases | Total no of death |
|--------------|--------------------|----------------------|
| Ayeyarwady | 3 | 1 |
| Bago | 2 | 0 |
| Chin | 0 | 0 |
| Kachin | 1 | 0 |
| Kayah | 0 | 0 |
| Kayin | 2 | 0 |
| Magway | 0 | 0 |
| Mandalay | 0 | 0 |
| Mon | 1 | 1 |
| Nay Pyi Taw | 1 | 0 |
| Rakhine | 1 | 0 |
| Sagaing | 0 | 0 |
| Shan East | 167 | 10 |
| Shan North | 10 | 3 |
| Shan South | 3 | 0 |
| Tanintharyi | 0 | 0 |
| Yangon | 12 | 5 |
| Grand Total | 203 | 20 |



Pertussis (Whooping Cough),2020*

Reported pertussis cases and deaths in states and regions

| State/Region | Cases | Deaths |
|--------------|-------|--------|
| Ayeyarwady | 3 | 0 |
| Magway | 1 | 0 |
| Naypyitaw | 2 | 0 |
| Tanintharyi | 4 | 0 |
| Yangon | 3 | 0 |

Neonatal Tetanus, 2020*

Reported NNT cases and deaths in states and regions

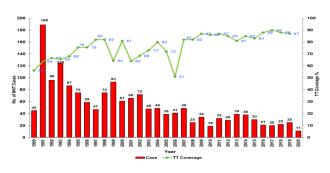
| State/Region | Cases | Deaths |
|-----------------------|-------|--------|
| Bago (East) | 1 | 1 |
| Kachin | 1 | 1 |
| kayin | 1 | 1 |
| Rakhine | 1 | 0 |
| Shan (East) | 2 | 2 |
| Shan (North) | 3 | 2 |
| Silaii (Nortii) | 1 | 1 |
| Tanintharyi | 1 | 0 |
| Total Reported | 11 | 8 |

Age distribution and vaccination status of

| Age group | 0 Dose | <3 Doses | >=3 Doses | Total |
|--------------------|--------|----------|-----------|-------|
| 0-11 Months | 6 | 2 | 0 | 8 |
| 1-4 Years | 1 | 0 | 0 | 1 |
| 5-9 Years | 1 | 0 | 0 | 1 |
| 10-14 Years | 0 | 0 | 0 | 0 |
| 15+ Years | 3 | 0 | 0 | 3 |
| Grand Total | 11 | 2 | 0 | 13 |

| Place of birth among reported NNT cases | | Reported NNT of delivered | | Vaccination stauts of mother during pregnancy | | |
|---|----|---------------------------|----|---|----|--|
| Hospital | 0 | Doctor | 0 | 0 Dose | | |
| Health Center | 0 | BHS | 0 | o pose | 7 | |
| Private Hospital | 0 | Trained TBA | 2 | - 1 Dose | | |
| Home | 10 | TBA | 5 | 1 Dose | 1 | |
| O+I | 1 | Other | 1 | 2 D | | |
| Other | 1 | Not Attended | 3 | >=2 Doses | 3 | |
| Unknown | 0 | Unknown | 0 | Unknown | 0 | |
| Total | 11 | Total | 11 | Total | 11 | |

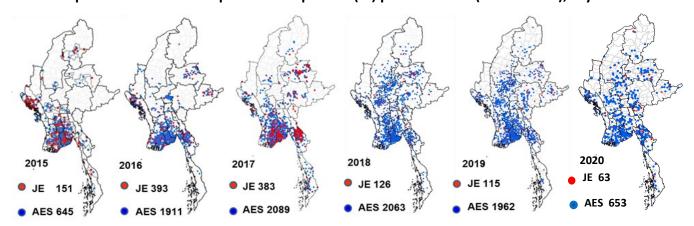
TT2 coverage and neonatal tetanus cases (1990-2020*)



^{*} Data as of week no.36, 31 /8/ 2020

Acute Encephalitis Syndrome (AES)

Reported AES cases & Japanese Encephalitis (JE) positive cases (2015-2020*), Myanmar

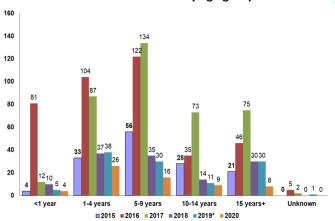


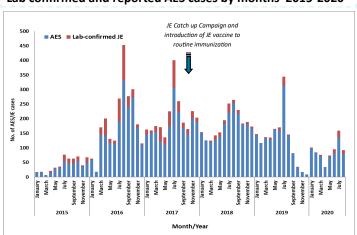
1 Dot = 1 Case

Region/State-wise occurrences of JE 2015-2020*

| Danier (State | 2 | 2015 2016 2017 2018 | | 2018 | 2019 | | 2020 | | | | | |
|---------------|-----|---------------------|------|-------------|------|-------------|------|-------------|------|-------------|-----|-------------|
| Region/State | AES | JE Positive | AES | JE Positive | AES | JE Positive | AES | JE Positive | AES | JE Positive | AES | JE Positive |
| Ayeyawady | 90 | 21 | 231 | 45 | 259 | 51 | 185 | 15 | 151 | 12 | 69 | 5 |
| Bogo | 86 | 28 | 213 | 53 | 256 | 49 | 200 | 11 | 203 | 11 | 56 | 3 |
| Chin | 1 | 1 | 11 | 3 | 2 | 1 | 4 | 1 | 1 | 0 | 4 | 0 |
| Kachin | 12 | 5 | 8 | 1 | 7 | 2 | 14 | 3 | 18 | 0 | 10 | 1 |
| Kayah | 0 | 0 | 1 | 1 | 15 | 6 | 15 | 3 | 19 | 2 | 10 | 5 |
| Kayin | 6 | 1 | 136 | 37 | 165 | 65 | 63 | 10 | 75 | 11 | 43 | 9 |
| Magway | 10 | 4 | 30 | 4 | 58 | 6 | 122 | 17 | 128 | 1 | 34 | 1 |
| Mandalay | 2 | 0 | 122 | 19 | 6 | 1 | 155 | 2 | 102 | 7 | 29 | 4 |
| Mon | 29 | 5 | 60 | 8 | 61 | 13 | 50 | 4 | 42 | 5 | 27 | 2 |
| Naypyitaw | 1 | 0 | 5 | 2 | 12 | 1 | 15 | 1 | 9 | 0 | 4 | 0 |
| Rakhine | 126 | 46 | 120 | 26 | 88 | 17 | 60 | 4 | 68 | 7 | 37 | 10 |
| Sagaing | 6 | 1 | 52 | 9 | 18 | 2 | 83 | 5 | 65 | 5 | 19 | 4 |
| Shan East | 1 | 0 | 29 | 8 | 5 | 2 | 6 | 2 | 26 | 8 | 11 | 4 |
| Shan North | 4 | 0 | 90 | 16 | 88 | 42 | 83 | 19 | 37 | 7 | 29 | 7 |
| Shan South | 0 | 0 | 14 | 2 | 60 | 16 | 82 | 5 | 62 | 6 | 29 | 2 |
| Tanintharyi | 6 | 3 | 18 | 4 | 45 | 11 | 19 | 0 | 13 | 0 | 13 | 2 |
| Yangon | 265 | 36 | 771 | 155 | 889 | 92 | 881 | 24 | 887 | 31 | 216 | 4 |
| Hospital | 0 | 0 | 0 | 0 | 55 | 6 | 26 | 0 | 56 | 2 | 13 | 0 |
| Total | 645 | 151 | 1911 | 393 | 2089 | 383 | 2063 | 126 | 1962 | 115 | 653 | 63 |

JE incidence: lab confirmed cases by age groups 2015-2020* Lab confirmed and reported AES cases by months 2015-2020*





Vaccine preventable disease cases (VPD) 2015-2020*

| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020* |
|-----------------------|------|------|------|------|-----------|-------|
| Diphtheria | 87 | 136 | 68 | 127 | 118 | 203 |
| Measles | 6 | 269 | 1293 | 1389 | 4247 | 439 |
| Pertussis | 5 | 2 | 4 | 28 | 30 | 13 |
| Polio | 0 | 0 | 0 | 0 | 6 (cVDPV) | 0 |
| Rubella | 34 | 10 | 6 | 13 | 24 | 2 |
| Neonatal tetanus | 30 | 21 | 20 | 22 | 25 | 11 |
| Japanese encephalitis | 151 | 393 | 383 | 126 | 115 | 63 |

^{*} Data as of week no.36, 31/8/2020

Vaccine preventable disease cases (VPD) by state and region, 2020*

| State/Region | Diphtheria | Pertussis | Neonatal tetanus | Japanese encephalitis |
|--------------|------------|-----------|---------------------|--------------------------|
| Ayeyarwady | 3 | 3 | 0 | 5 |
| Bago | 2 | 0 | 1 | 3 |
| Chin | 0 | 0 | 0 | 0 |
| Kachin | 1 | 0 | 1 | 1 |
| Kayah | 0 | 0 | 0 | 5 |
| Kayin | 2 | 0 | 1 | 9 |
| Magway | 0 | 1 | 0 | 1 |
| Mandalay | 0 | 0 | 0 | 4 |
| Mon | 1 | 0 | 0 | 2 |
| Nay Pyi Taw | 1 | 2 | 0 | 0 |
| Rakhine | 1 | 0 | 1 | 10 |
| Sagaing | 0 | 0 | 0 | 4 |
| Shan East | 167 | 0 | 2 | 4 |
| Shan North | 10 | 0 | 4 | 7 |
| Shan South | 3 | 0 | 0 | 2 |
| Tanintharyi | 0 | 4 | 1 | 2 |
| Yangon | 12 | 3 | 0 | 4 |
| Hospital | 0 | 0 | 0 | 0 |
| National | 203 | 13 | 11 | 63 |

^{*} Data as of week no.36, 31/8/2020

DISEASE OUTBREAK 2020*

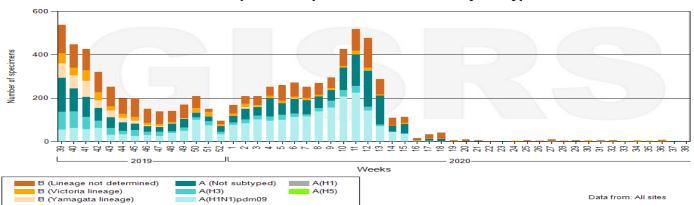
| Nic | Disease | Jan-June | | | August | | |
|-----|----------------|----------|-------|--------|--------|-------|--------|
| No. | | Events | Cases | Deaths | Events | Cases | Deaths |
| 1. | Anthrax | 1 | 1 | 0 | 0 | 0 | 0 |
| 2. | Chicken pox | 4 | 36 | 0 | 0 | 0 | 0 |
| 3. | Diarrhoea | 6 | 177 | 5 | 0 | 0 | 0 |
| 4. | Diphtheria | 38 | 38 | 12 | 165 | 165 | 8 |
| 5. | Food Poisoning | 20 | 700 | 3 | 5 | 136 | 0 |
| 6. | Measles | 15 | 307 | 0 | 0 | 0 | 0 |
| 7. | Meningitis | 7 | 7 | 0 | 0 | 0 | 0 |
| 8. | Mumps | 0 | 0 | 0 | 0 | 0 | 0 |

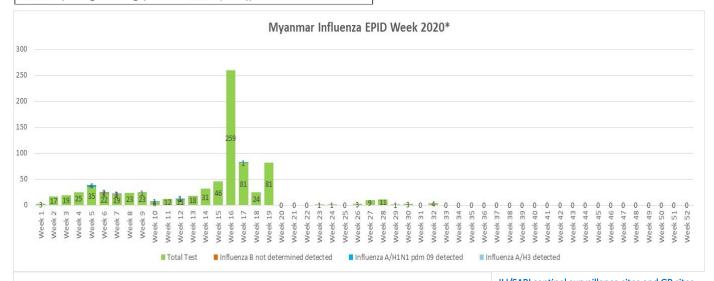
^{*} Data as of week no.36, 31/8/2020

Influenza surveillance report

Number of specimens positive for influenza by Southern Hemisphere subtype

Number of specimens positive for influenza by subtype

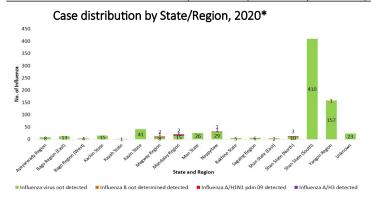


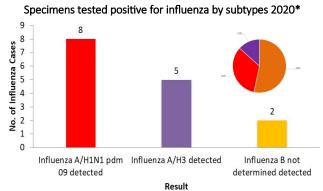


Myanmar Influenza surveillance in August-2020* (Hospital Distribution)

| iviyanmar influenza surveillance in August-2020" (Hospital Distribution) | | | | | | |
|--|------------------------------|----------------------------|---------------------------------|-----------------------|-------|--|
| Name of Hospital | A/H1N1 pdm 09 detected | Influenza A/H3 detected | B not determined detected | virus not detected | Total | |
| Sentinal Hospital | | | | | | |
| 1000 Bedded General Hospital, Nay Pyi Taw | 1 | 2 | 0 | 48 | 51 | |
| Mandalay General Hospital | 0 | 0 | 0 | 7 | 7 | |
| Muse Township Hospital | 4 | 0 | 0 | 7 | 11 | |
| Myawaddy District Hospital | 0 | 0 | 0 | 41 | 41 | |
| Myit Kyi Na General Hospital | 0 | 0 | 0 | 15 | 15 | |
| Sittwe General Hospital | 0 | 0 | 0 | 0 | 0 | |
| Thingangyun Sanpya General Hospital (T.G.H) | 0 | 0 | 0 | 116 | 116 | |
| Yangon General Hospital (Y.G.H) | 0 | 0 | 0 | 11 | 11 | |
| GP-Mandalay | 0 | 0 | 0 | 1 | 1 | |
| GP-Yangon | 0 | 0 | 0 | 15 | 15 | |
| Other Hospital/Source | 3 | 3 | 2 | 512 | 520 | |
| Total | 8 | 5 | 2 | 773 | 788 | |







^{*} Data as of week no. 36, 31 /8/2020

Coronavirus Disease 2019 (COVID-19) in Myanmar

Total Tested

Confirmed Cases

Negative

Recovered

Active

Death

160,256

787

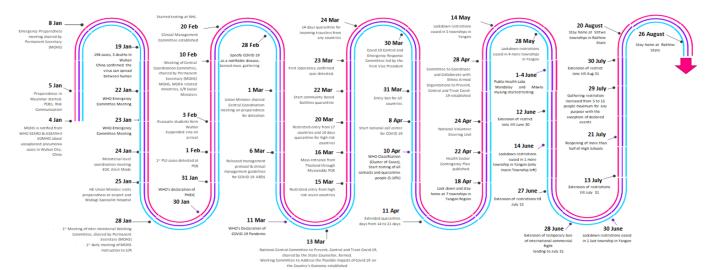
159,469

354

427

6

Timeline of Preparedness and Response to COVID-19 in Myanmar (as of 31.8.2020)



Map showing COVID-19 laboratory confirmed cases

Death (n-6)

5 < 10 Cases 10 < 20 Cases

COVID-19 positive confirmed cases by

No. of Facility Quarantine sites and Quarantined

State/region (31-8-2020)

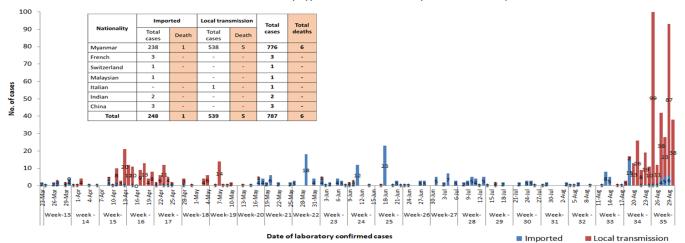
| State/ region (51-8-2020) | | | | | | | |
|---------------------------|--------------|--------------------------------|------------|--------|---|--|--|
| No | State/Region | COVID –19 Confirmed case | Recovered | Deaths | 1 | | |
| 1 | Rakhine | 361 (32 New) | 16 | - | | | |
| 2 | Yanogn | 326 (6 New) | 252(2 New) | 5 | | | |
| 3 | Kayin | 29 | 29 | - | | | |
| 4 | Chin | 18 | 13 | - | | | |
| 5 | Bago | 10 | 8 | 1 | | | |
| 6 | Sagaing | 9 | 9 | - | | | |
| 7 | Mandalay | 6 | 4 | - | | | |
| 8 | Shan (South) | 5 | 4 | - | | | |
| 9 | Thanintharyi | 5 | 2 | - | | | |
| 10 | Shan (East) | 3 | 3 | - | | | |
| 11 | Shan (North) | 3 | 3 | - | | | |
| 12 | Magway | 3 | 3 | - | | | |
| 13 | Mon | 3 | 2 | - | | | |
| 14 | Ayeyarwaddy | 2 | 2 | - | | | |
| 15 | Kachin | 2 | 2 | - | | | |
| 16 | Naypyitaw | 2 | 2 | - | | | |
| 17 | Kayah | - | - | - | | | |
| | | | | | | | |

people on 31.8.2020

| D –19 rmed se | Recovered | Deaths | No. | State/Region | No. of facilities | Total no. of quarantine |
|---------------------|------------|--------|--------------|--------------|-------------------|-------------------------|
| | | | 1 | Yangon | 75 | 4962 |
| New) | 16 | - | 2 | Mon | 254 | 2627 |
| New) | 252(2 New) | 5 | 3 | Rakhine | 403 | 2395 |
| 9 | 29 | - | 4 | Bago | 190 | 2220 |
| 8 | 13 | - | 5 | Kayin | 387 | 1962 |
| 0 | 8 | 1 | 6 | Tanintharyi | 189 | 1791 |
|) | 9 | - | 7 | Magway | 48 | 1316 |
| j | 4 | - | 8 | Mandalay | 87 | 1076 |
| 5 | 4 | - | 9 | Sagaing | 167 | 921 |
| 5 | 2 | - | 10 | Ayeyarwaddy | 86 | 622 |
| 3 | 3 | - | 11 | Kachin | 86 | 503 |
| 3 | 3 | - | 12 | Shan South | 78 | 434 |
| 3 | 3 | - | 13 | Naypyitaw | 5 | 387 |
| 3 | 2 | - | 14 | Chin | 19 | 102 |
| 2 | 2 | - | 15 | Shan North | 270 | 81 |
| 2 | 2 | - | 16 | Kayah | 18 | 51 |
| 2 | 2 | - | | - | 7 | 34 |
| | - | - | 17 Shan East | | / | 54 |
| New) | 354(2 New) | 6 | Total | | 2,369 | 21,484 |

COVID-19 confirmed cases by types of transmissions (as of 31.8.2020) n=787

787 (38



AFP Case Definition:

Any case of AFP in a child aged <15 years, or any case of paralytic illness in a person of any age when polio is suspected.

Acute: rapid progression of paralysis from onset to maximum paralysis

Flaccid: loss of muscle tone, "floppy" – as opposed to spastic or rigid

Paralysis: weakness, loss of voluntary movement

Any case meeting this definition undergoes a thorough investigation to determine if the paralysis is caused by polio.

Measles Case Definition: Suspected case of measles

A patient in whom a health- care worker suspects measles infection, OR a patient with fever and maculo-papular (non-vesicular) rash.

Laboratory confirmed measles: A suspected case of measles, that has been confirmed by a proficient laboratory

Epidemiologically linked confirmed case of measles: A suspected case of measles, that has not been confirmed by a laboratory but was geographically and temporally related, with dates of rash onset occurring 7 - 21 days apart to a laboratory confirmed case, or, in the event of a chain of transmission to another epidemiologically confirmed measles case.

Clinically compatible measles case: A case with fever and maculo-papular (non-vesicular) rash and one of cough, coryza or conjunctivitis for which no adequate clinical specimen was taken and which has not been linked epidemiologically to a laboratory confirmed case of measles or another laboratory-confirmed communicable diseases.

Congenital Rubella Syndrome CRS Surveillance Standard Case Definitions

Classification of cases for CRS surveillance purposes is based on clinical, epidemiological and laboratory data. The case definitions for CRS surveillance include the following categories: suspected, laboratory confirmed, clinically compatible, epidemiologically linked and discarded.

Case definition for Diphtheria surveillance

Clinical description

An upper respiratory tract illness characterized by sore throat, low-grade fever, and an adherent membrane of the tonsil(s), pharynx, and/or nose. <u>Laboratory criteria</u>: Isolation of C. diphtheriae from a clinical specimen, OR Histopathologic diagnosis of diphtheria.

Whooping Cough Case Definitions

Clinical case definition

In the absence of a more likely diagnosis a cough illness lasting ≥2 weeks with one of the following symptoms: Paroxysms of coughing, OR Inspiratory "whoop," OR Post tussive vomiting, OR Apnea (with or without cyanosis) (FOR INFANTS AGED <1 YEAR ONLY)

Confirmed Case definition of Neonatal Tetanus:

Any neonate with normal ability to suck and cry during first two days and who during 3 to 28 days cannot suck or cry and has convulsion or spasms, by triggered by minimal stimuli such as light, noise or touch or who has signs of stiffness and rigidity, which include any of the following: trismus, clenched fists or fits, continuously pursed lips, curved back (opisthotonus).

Surveillance of AES

All cases of acute encephalitis syndrome should be reported

Clinical case definition: A person of any age, in any geographical region, at any time of year with acute onset of fever and a change in mental status (including symptoms such as confusion, disorientation, coma, or inability to talk) AND/OR new onset of seizures (excluding simple febrile seizures).

AFP Surveillance Indicators (core indicators)

| Indicator | Target | Calculation | |
|--|-------------|---|----------|
| 1. Non-polio AFP rate | = 2/100,000 | No. of discarded non-polio AFP cases among 15 years of age group Total number of children < 15 years of age | x 100000 |
| Reported AFP cases with specimens collected = 14 days since onset. | = 80%) | No of AFP cases with 2 specimens collected within 14 days of paralysis onset Total number of children < 15 years of age | x 100 |

Measles Surveillance Indicators (core indicators)

| Indicator | Target | Definition |
|--|--|--|
| Disease incidence Annual incidence of confirmed measles cases Annual incidence of confirmed rubella cases | Absence of indigenous measles transmission | The numerator is the confirmed number of measles or rubella cases of the year denominator is the population in which the cases occurred multiplied by 1,000,000. When numerator is zero, the target incidence would be zero. |
| Proportion of sub-national administrative units reporting at least 2 discarded non measles, non rubella cases per 100,000 population | >80% | The numerator is the number of sub-national units reporting at least 2 discarded non-measles non rubella cases per 100,000 and the denominator is the total number of sub-national units multiplied by 100 |

Data source:
- Central Epidemiology Unit
- National Health Laboratory
- National Surveillance Coordinator
Office (WHO)

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Address: Central Epidemiology Unit, Department of Public Health, Ministry of Health and Sports
Phone: +95 67 3431432 Fax: +95 67 3431434 Email address: dophceu@gmail.com