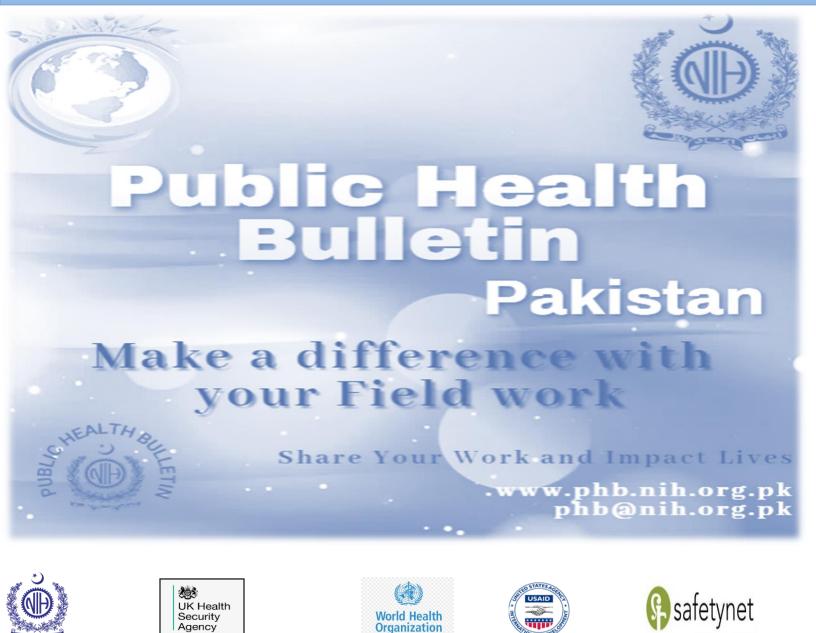
PUBLIC HEALTH BULLETIN-PAKISTAN

Vol. 3 / Week 45 Nov 2023 **Integrated Disease Surveillance** & Response (IDSR) Report

Center of Disease Control National Institute of Health, Islamabad

http:/www.phb.nih.org.pk/

Integrated Disease Surveillance & Response (IDSR) Weekly Public Health Bulletin is your go-to resource for disease trends, outbreak alerts, and crucial public health information. By reading and sharing this bulletin, you can help increase awareness and promote preventive measures within your community.





Overview

IDSR Reports

Ongoing Events

Field Reports

Public Health Bulletin - Pakistan, Week 45, 2023

This edition of the Public Health Bulletin summarizes the most significant public health developments in Pakistan during Week 45 of 2023.

Acute Diarrhea (Non-Cholera) emerged as the most prevalent reported disease during Week 45, followed by Malaria, Influenza-Like Illness (ILI), Acute Lower Respiratory Infection (ALRI) in children under five, Bacterial Diarrhea, Severe Acute Respiratory Infection (SARI), dog bites, and Mumps. Twentyeight suspected Diphtheria cases were reported from Khyber Pakhtunkhwa (KPK). These cases require field verification for confirmation. Sindh, KPK, and Balochistan have reported an overall increase in vaccine-preventable diseases such as Measles, Pertussis, Diphtheria, and Mumps. Field investigations are necessary to validate these cases and initiate appropriate response measures.

This issue of the Public Health Bulletin also provides updates on: Outbreak Investigation of Chickenpox at a Private School in Jhung, Punjab, Acute Watery Diarrhea (AWD) in Town Area of Sibi, Balochistan, Field Activity Report on Workshop on IDSR Trainings in Punjab and Persistent Issues of Smog in Punjab. Educational Awareness Essay on Chickenpox: Guide to Awareness and prevention

The Public Health team urges the public to remain vigilant and seek immediate medical attention if they experience symptoms associated with any of the aforementioned diseases. By working together, we can effectively safeguard the health and well-being of our communities.

Working together, we can safeguard the health of our communities.

Sincerely, The Chief Editor











Overview

- During week 45, most frequent reported cases were of Acute Diarrhea (Non-Cholera) followed by Malaria, ILI, ALRI <5 years, B. Diarrhea, SARI, dog bite and Mumps.
- Twenty-eight cases of Diphtheria reported from KPK. All are suspected cases and need field verification.
- There is an overall increase in vaccine preventable diseases e.g. Measles, Pertussis, Diphtheria and Mumps from Sindh, KPK and Balochistan. Field investigation required to verify cases to initiate response.

IDSR compliance attributes

- The national compliance rate for IDSR reporting in 121 implemented districts is 74%
- Sindh and AJK are the top reporting region with a compliance rate of 89% and 76% followed by Khyber Pakhtunkhwa AND BOLACHISTAN with 71%
- The lowest compliance rate was observed in ICT and Gilgit Baltistan.

| Region | Expected Reports | Received Reports | Compliance (%) |
|--------------------------------|------------------|------------------|----------------|
| Khyber Pakhtunkhwa | 2017 | 1406 | 71 |
| Azad Jammu Kashmir | 404 | 308 | 76 |
| Islamabad Capital Territory | 70 | 24 | 34 |
| Balochistan | 1238 | 881 | 71 |
| Gilgit Baltistan | 440 | 183 | 42 |
| Sindh | 2088 | 1852 | 89 |
| National | 6257 | 4654 | 74 |









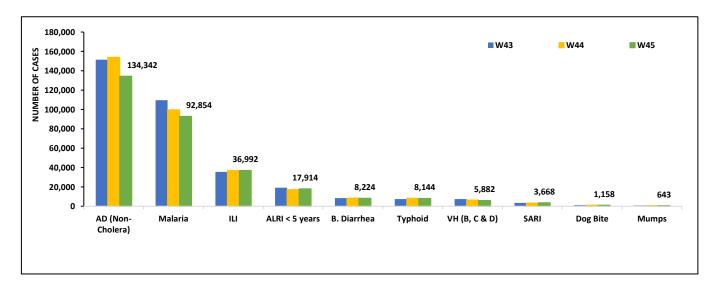


Pakistan

| Diseases | AJK | Balochistan | GB | ІСТ | KP | Punjab | Sindh | Total |
|-----------------------|-------|-------------|-----|-----|--------|--------|--------|---------|
| AD (Non-Cholera) | 918 | 6,558 | 334 | 37 | 16,626 | 71,229 | 38,640 | 134,342 |
| Malaria | 48 | 9,512 | 0 | 2 | 4,588 | 3,520 | 75,184 | 92,854 |
| ILI | 2,046 | 7,569 | 243 | 177 | 5,582 | NR | 21,375 | 36,992 |
| ALRI < 5 years | 980 | 2,194 | 415 | 3 | 2,308 | NR | 12,014 | 17,914 |
| B. Diarrhea | 62 | 1,820 | 49 | 1 | 854 | 2,054 | 3,384 | 8,224 |
| Typhoid | 33 | 988 | 57 | 0 | 699 | 4,266 | 2,101 | 8,144 |
| VH (B, C & D) | 10 | 94 | 1 | 0 | 93 | NR | 5,684 | 5,882 |
| SARI | 249 | 1,275 | 332 | 0 | 1,166 | NR | 646 | 3,668 |
| Dog Bite | 27 | 217 | 0 | 0 | 139 | NR | 775 | 1,158 |
| Mumps | 56 | 137 | 25 | 0 | 107 | NR | 318 | 643 |
| AWD (S. Cholera) | 31 | 296 | 74 | 0 | 103 | NR | 60 | 564 |
| CL | 9 | 174 | 1 | 0 | 359 | 1 | 2 | 546 |
| Measles | 11 | 184 | 12 | 0 | 172 | NR | 100 | 479 |
| AVH(A&E) | 18 | 25 | 7 | 1 | 200 | NR | 191 | 442 |
| Pertussis | 1 | 142 | 87 | 0 | 30 | NR | 52 | 312 |
| Dengue | 0 | 27 | 0 | 1 | 28 | NR | 250 | 306 |
| Gonorrhea | 3 | 95 | 4 | 0 | 14 | NR | 181 | 297 |
| Chickenpox/ Varicella | 11 | 17 | 16 | 0 | 140 | 60 | 13 | 197 |
| Syphilis | 32 | 25 | 0 | 0 | 6 | 1 | 31 | 95 |
| Leprosy | 0 | 33 | 0 | 0 | 16 | NR | 28 | 77 |
| VL | 1 | 24 | 0 | 0 | 32 | NR | 7 | 64 |
| AFP | 0 | 13 | 0 | 0 | 18 | NR | 23 | 54 |
| Diphtheria (Probable) | 0 | 5 | 0 | 0 | 28 | NR | 0 | 33 |
| Meningitis | 2 | 4 | 3 | 0 | 4 | NR | 19 | 32 |
| Rubella (CRS) | 0 | 2 | 1 | 0 | 8 | NR | 1 | 12 |
| HIV/AIDS | 0 | 0 | 0 | 0 | 1 | NR | 05 | 06 |
| NT | 1 | 0 | 0 | 0 | 8 | NR | 0 | 9 |
| Anthrax | 0 | 0 | 0 | 0 | 0 | NR | 0 | 0 |
| Brucellosis | 0 | 0 | 0 | 0 | 0 | NR | 2 | 2 |
| Chikungunya | 0 | 0 | 4 | 0 | 0 | NR | 1 | 5 |
| CCHF | 0 | 0 | 0 | 0 | 0 | NR | 0 | 0 |

Table 1: Province/Area wise distribution of most frequently reported cases during week 45, Pakistan.

Figure 1: Most frequently reported suspected cases during week 45, Pakistan













• Malaria cases were maximum followed by AD (Non-Cholera), ILI, ALRI<5 Years, VH (B, C, D), B. Diarrhea, Typhoid, dog bite, SARI and Mumps.

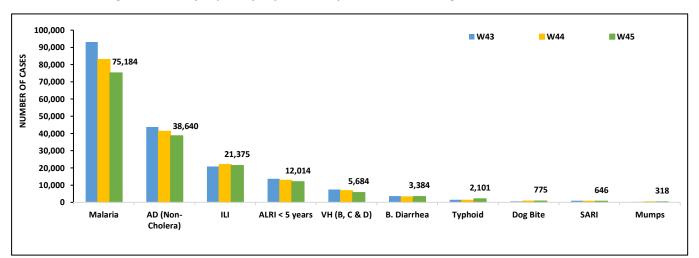
Sindh

- Trends for malaria, ILI and AD cases decline this week.
- Badin and Tharparkar reported maximum cases of Mumps. All are suspected cases and require urgent attention to verify cases.
- Dadu reported maximum cases of Typhoid fever followed by Khairpur, Karachi central and Shaheed Benazirabad districts. Field investigation is required to identify the source to control the spread of disease.

| | | AD (Non- | ,, , . | ALRI < | VH (B, C | | | J | -, - | - |
|---------------------|---------|----------|---------------|---------|------------------|-------------|---------|----------|------|-------|
| DISTRICTS | Malaria | Cholera) | ILI | 5 years | VП (В, С & D) | B. Diarrhea | Typhoid | Dog Bite | SARI | Mumps |
| Badin | 3,906 | 2,538 | 919 | 703 | 381 | 227 | 42 | 48 | 34 | 40 |
| Dadu | 6,645 | 3,606 | 1,704 | 1,351 | 21 | 537 | 995 | 135 | 113 | 8 |
| Ghotki | 1,319 | 764 | 0 | 664 | 346 | 121 | 0 | 0 | 0 | 0 |
| Hyderabad | 473 | 1,684 | 401 | 48 | 55 | 17 | 12 | 3 | 0 | 15 |
| Jacobabad | 3,227 | 902 | 331 | 1,213 | 261 | 94 | 30 | 46 | 27 | 3 |
| Jamshoro | 2,161 | 1,134 | 36 | 218 | 125 | 107 | 56 | 8 | 0 | 5 |
| Kamber | 5,701 | 1,989 | 0 | 421 | 758 | 212 | 31 | 21 | 16 | 2 |
| Karachi Central | 44 | 862 | 1,408 | 43 | 99 | 15 | 100 | 3 | 0 | 2 |
| Karachi East | 120 | 453 | 105 | 50 | 1 | 7 | 4 | 4 | 1 | 1 |
| Karachi Keamari | 2 | 249 | 139 | 33 | 0 | 1 | 0 | 0 | 0 | 0 |
| Karachi Korangi | 57 | 189 | 4 | 1 | 0 | 0 | 2 | 0 | 0 | 1 |
| Karachi Malir | 114 | 694 | 2,431 | 191 | 13 | 45 | 29 | 25 | 27 | 6 |
| Karachi South | 31 | 103 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Karachi West | 126 | 853 | 791 | 136 | 19 | 36 | 38 | 29 | 30 | 3 |
| Kashmore | 2,766 | 514 | 643 | 308 | 78 | 76 | 13 | 23 | 0 | 8 |
| Khairpur | 6,646 | 3,246 | 1,426 | 1,299 | 627 | 429 | 273 | 66 | 231 | 7 |
| Larkana | 10,707 | 1,951 | 3 | 498 | 146 | 315 | 7 | 0 | 0 | 3 |
| Matiari | 1,871 | 1,239 | 38 | 492 | 327 | 53 | 3 | 20 | 1 | 11 |
| Mirpurkhas | 3,404 | 1,735 | 4,149 | 404 | 66 | 82 | 36 | 1 | 0 | 22 |
| Naushero Feroze | 1,417 | 1,150 | 936 | 160 | 58 | 30 | 51 | 59 | 0 | 4 |
| Sanghar | 3,325 | 1,792 | 96 | 560 | 748 | 76 | 87 | 134 | 91 | 19 |
| Shaheed Benazirabad | 1,704 | 1,835 | 0 | 511 | 127 | 73 | 165 | 8 | 3 | 11 |
| Shikarpur | 4,065 | 1,187 | 3 | 227 | 230 | 163 | 1 | 89 | 7 | 9 |
| Sujawal | 1,305 | 998 | 0 | 157 | 0 | 17 | 23 | 15 | 27 | 0 |
| Sukkur | 4,034 | 1,547 | 2,003 | 432 | 228 | 197 | 9 | 4 | 0 | 0 |
| Tando Allahyar | 1,613 | 1,323 | 1,009 | 366 | 551 | 118 | 10 | 2 | 0 | 28 |
| Tando Muhammad Khan | 1,653 | 1,062 | 0 | 285 | 31 | 141 | 1 | 0 | 0 | 1 |
| Tharparkar | 3,397 | 1,425 | 1,915 | 871 | 187 | 64 | 47 | 4 | 36 | 86 |
| Thatta | 1,576 | 756 | 882 | 153 | 55 | 82 | 15 | 28 | 2 | 0 |
| Umerkot | 1,775 | 860 | 3 | 219 | 146 | 49 | 21 | 0 | 0 | 23 |
| Total | 75,184 | 38,640 | 21,375 | 12,014 | 5,684 | 3,384 | 2,101 | 775 | 646 | 318 |

Table 2: District wise distribution of most frequently reported suspected cases during week 45, Sindh

Figure 2: Most frequently reported suspected cases during week 45 Sindh













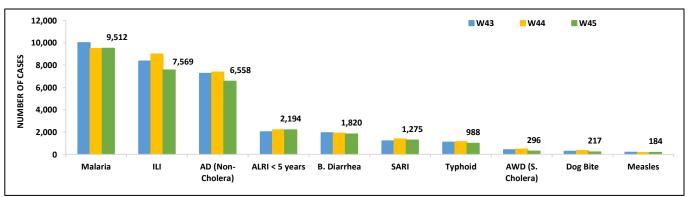
Balochistan

- Malaria, ILI, AD (Non-Cholera), ALRI <5 years, B. Diarrhea, SARI, Typhoid, AWD (S. Cholera), dog bite and Measles were the most frequently reported diseases from Balochistan province.
- Trend for ILI, AD declined whereas remained static for Malaria.
- One hundred and fifteen cases of Measles reported from Chaman district. All are suspected cases and need field investigation to verify the cases.
- Hub, Loralai and Mastung districts reported cases of SARI in high numbers which need verification to distinguish from COVID-19.

Table 3: District wise distribution of most frequently reported suspected cases during week 45, Balochistan

| Districts | Malaria | ш | AD Non- Cholera) | ALRI < 5 vears | B. Diarrhea | SARI | Typhoid | AWD (S.Cholera) | Dog Bite | Measles |
|-----------------|---------|-------|---------------------|-------------------|----------------|-------|---------|--------------------|-------------|---------|
| Barkhan | 123 | 145 | 146 | 133 | 48 | 16 | 69 | 25 | 16 | 0 |
| Chagai | 13 | 277 | 187 | 0 | 64 | 0 | 28 | 16 | 0 | 0 |
| Chaman | 47 | 268 | 102 | 6 | 122 | 53 | 58 | 17 | 10 | 115 |
| Dera Bugti | 259 | 94 | 73 | 63 | 52 | 15 | 13 | 0 | 0 | 0 |
| Duki | 79 | 69 | 106 | 23 | 89 | 78 | 15 | 28 | 3 | 0 |
| Gwadar | 606 | 801 | 277 | 31 | 47 | 1 | 41 | 0 | 0 | 0 |
| Harnai | 108 | 25 | 109 | 251 | 84 | 0 | 2 | 2 | 0 | 0 |
| Hub | 303 | 133 | 232 | 64 | 53 | 125 | 4 | 0 | 93 | 0 |
| Jaffarabad | 1,213 | 204 | 509 | 53 | 44 | 28 | 10 | 0 | 9 | 0 |
| Jhal Magsi | 1,065 | 177 | 346 | 99 | 25 | 0 | 12 | 5 | 9 | 0 |
| Kachhi (Bolan) | 291 | 236 | 310 | 11 | 47 | 71 | 64 | 29 | 13 | 26 |
| Kalat | 51 | 11 | 40 | 17 | 22 | 4 | 42 | 0 | 0 | 12 |
| Kharan | 72 | 404 | 131 | 0 | 65 | 2 | 7 | 2 | 0 | 0 |
| Khuzdar | 114 | 188 | 144 | 4 | 48 | 5 | 9 | 0 | 12 | 13 |
| Killa Saifullah | 239 | 2 | 173 | 139 | 79 | 29 | 25 | 8 | 0 | 1 |
| Kohlu | 224 | 678 | 268 | 80 | 168 | 186 | 59 | 17 | 0 | 0 |
| Lasbella | 686 | 136 | 412 | 153 | 6 | 25 | 10 | 0 | 8 | 0 |
| Loralai | 50 | 325 | 170 | 60 | 54 | 119 | 31 | 4 | 0 | 0 |
| Mastung | 91 | 202 | 232 | 15 | 51 | 121 | 58 | 2 | 18 | 4 |
| Musakhel | 115 | 49 | 43 | 15 | 22 | 4 | 19 | 19 | 0 | 12 |
| Naseerabad | 659 | 0 | 223 | 5 | 20 | 0 | 61 | 3 | 4 | 0 |
| Nushki | 41 | 12 | 181 | 0 | 55 | 0 | 0 | 1 | 0 | 0 |
| Panjgur | 153 | 48 | 75 | 16 | 20 | 18 | 61 | 12 | 0 | 0 |
| Pishin | 9 | 75 | 23 | 20 | 33 | 0 | 9 | 0 | 3 | 0 |
| Quetta | 16 | 845 | 251 | 47 | 54 | 8 | 34 | 2 | 0 | 0 |
| Sherani | 7 | 96 | 68 | 1 | 14 | 81 | 3 | 0 | 0 | 0 |
| Sibi | 555 | 936 | 633 | 34 | 83 | 54 | 33 | 57 | 11 | 0 |
| Sohbat pur | 1,018 | 14 | 304 | 150 | 97 | 68 | 68 | 1 | 2 | 0 |
| Surab | 23 | 84 | 21 | 0 | 6 | 0 | 24 | 0 | 0 | 0 |
| Usta Muhammad | 1,005 | 196 | 378 | 226 | 51 | 39 | 15 | 0 | 2 | 0 |
| Washuk | 61 | 284 | 137 | 1 | 89 | 6 | 2 | 0 | 0 | 0 |
| Zhob | 166 | 242 | 164 | 436 | 45 | 109 | 74 | 8 | 0 | 1 |
| Ziarat | 50 | 313 | 90 | 41 | 63 | 10 | 28 | 38 | 4 | 0 |
| Total | 9,512 | 7,569 | 6,558 | 2,194 | 1,820 | 1,275 | 988 | 296 | 217 | 184 |

Figure 3: Most frequently reported suspected cases during week 45, Balochistan













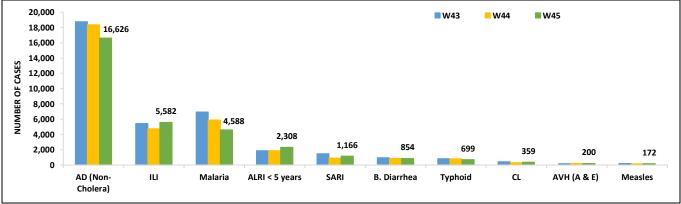
Khyber Pakhtunkhwa

- Cases of AD (Non-Cholera) were maximum followed by ILI, Malaria, ALRI<5 Years, SARI, B. Diarrhea, Typhoid, CL, AVH (A&E) and Measles cases.
- ILI cases showed a rise this week.
- Upper Kurrum, Peshawar and Dir Lower have reported SARI cases in high numbers. These are suspected cases and a field investigation is required to verify cases.

| Districts | AD (Non- Cholera) | ш | Malaria | ALRI <5 Years | SARI | B. Diarrhea | Typhoid | CL | AVH (A & E) | Measles |
|----------------|-------------------------|-------|---------|---------------|-------|-------------|---------|-----|----------------|---------|
| Abbottabad | 379 | 33 | 3 | 20 | 23 | 2 | 10 | 0 | 0 | 1 |
| Bajaur | 100 | 15 | 28 | 31 | 49 | 9 | 0 | 2 | 0 | 2 |
| Bannu | 699 | 65 | 839 | 7 | 1 | 13 | 48 | 0 | 2 | 2 |
| Battagram | 165 | 421 | 96 | 0 | 0 | 1 | 0 | 1 | 2 | 2 |
| Buner | 242 | 0 | 343 | 0 | 0 | 0 | 9 | 0 | 0 | 3 |
| Charsadda | 849 | 325 | 417 | 49 | 91 | 36 | 14 | 17 | 7 | 0 |
| Chitral Lower | 174 | 81 | 12 | 13 | 26 | 17 | 8 | 8 | 3 | 0 |
| Chitral Upper | 97 | 7 | 1 | 17 | 5 | 6 | 23 | 0 | 2 | 0 |
| D.I. Khan | 864 | 6 | 334 | 6 | 28 | 15 | 2 | 6 | 0 | 26 |
| Dir Lower | 908 | 0 | 467 | 125 | 5 | 66 | 41 | 3 | 35 | 18 |
| Dir Upper | 296 | 10 | 7 | 34 | 0 | 14 | 16 | 5 | 4 | 1 |
| Hangu | 204 | 163 | 367 | 11 | 53 | 18 | 8 | 62 | 5 | 1 |
| Haripur | 970 | 739 | 21 | 251 | 59 | 4 | 58 | 0 | 38 | 0 |
| Karak | 251 | 74 | 207 | 3 | 0 | 0 | 5 | 31 | 0 | 22 |
| Khyber | 96 | 0 | 62 | 18 | 0 | 31 | 4 | 0 | 0 | 0 |
| Kohat | 55 | 0 | 22 | 1 | 0 | 0 | 0 | 2 | 0 | 0 |
| Kohistan Lower | 75 | 0 | 4 | 33 | 0 | 15 | 1 | 0 | 0 | 0 |
| Kohistan Upper | 250 | 28 | 14 | 5 | 8 | 2 | 41 | 0 | 0 | 6 |
| Kolai Palas | 49 | 0 | 4 | 11 | 13 | 2 | 0 | 0 | 0 | 0 |
| L & C Kurram | 13 | 100 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 |
| Lakki Marwat | 364 | 0 | 254 | 80 | 0 | 30 | 12 | 7 | 0 | 2 |
| Malakand | 507 | 0 | 38 | 44 | 7 | 45 | 19 | 35 | 31 | 13 |
| Mansehra | 347 | 527 | 2 | 45 | 105 | 16 | 1 | 0 | 8 | 2 |
| Mardan | 1,045 | 148 | 31 | 837 | 0 | 27 | 0 | 15 | 5 | 1 |
| Mohmand | 189 | 60 | 155 | 12 | 17 | 17 | 27 | 82 | 0 | 1 |
| Nowshera | 1,324 | 6 | 66 | 3 | 24 | 11 | 18 | 15 | 3 | 1 |
| Peshawar | 2,551 | 1,278 | 66 | 197 | 228 | 165 | 63 | 4 | 14 | 28 |
| Shangla | 324 | 26 | 102 | 31 | 20 | 4 | 17 | 0 | 0 | 4 |
| SWA | 76 | 359 | 159 | 201 | 60 | 35 | 63 | 41 | 2 | 6 |
| Swabi | 888 | 491 | 39 | 110 | 8 | 12 | 30 | 0 | 7 | 4 |
| Swat | 1,727 | 249 | 17 | 86 | 0 | 14 | 3 | 0 | 23 | 7 |
| Tank | 244 | 0 | 328 | 4 | 0 | 5 | 55 | 15 | 0 | 2 |
| Tor Ghar | 40 | 0 | 77 | 1 | 14 | 17 | 7 | 8 | 2 | 0 |
| Upper Kurram | 264 | 371 | 6 | 22 | 322 | 202 | 92 | 0 | 7 | 17 |
| Total | 16,626 | 5,582 | 4,588 | 2,308 | 1,166 | 854 | 699 | 359 | 200 | 172 |

Table 4: District wise distribution of most frequently reported suspected cases during week 45, KP

Figure 4: Most frequently reported suspected cases during week 45, KP













ICT, AJK & GB

ICT: The most frequently reported cases from Islamabad were ILI followed by AD (Non-Cholera) and AWD. ILI cases showed a decreasing trend in cases this week.

AJK: ILI cases were maximum followed by ALRI <5 years, AD (Non-Cholera), SARI, B. Diarrhea, Mumps, Malaria, Typhoid, Syphilis and AWD (S. Cholera). Trend for ILI, AD and ALRI <5 years showed a downward trend in cases this week.

GB: ALRI<5 years cases were the most frequently reported diseases followed by AD (Non. Cholera), SARI, ILI, Pertussis, AWD (S. Cholera), Typhoid and B. Diarrhea. There is a sharp decline trend in ALRI<5 years cases this week.

Figure 5: Week wise reported suspected cases of ILI, ICT

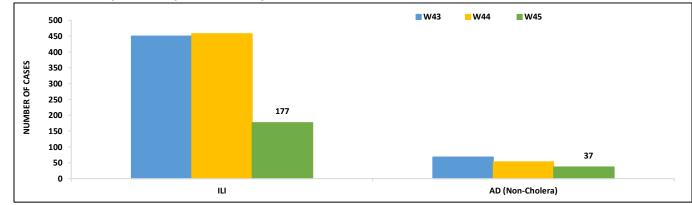


Figure 6: Week wise reported suspected cases of ILI, ICT

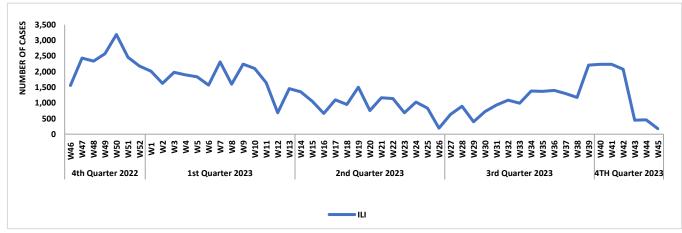
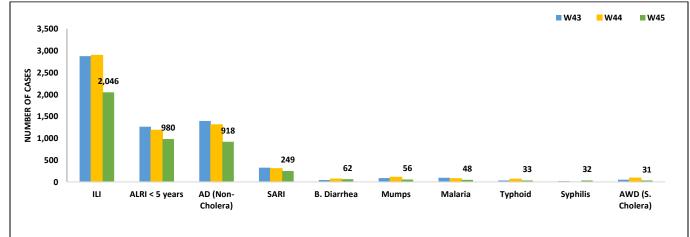


Figure 7: Most frequently reported suspected cases during week 45, AJK













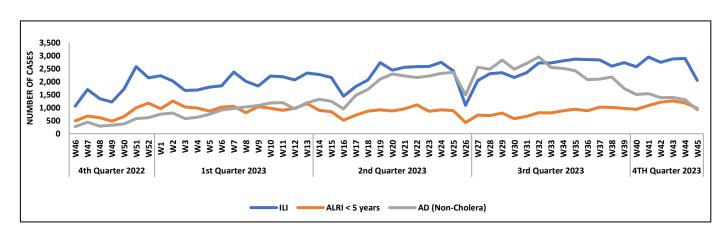


Figure 9: Most frequent cases reported during WK 45, GB

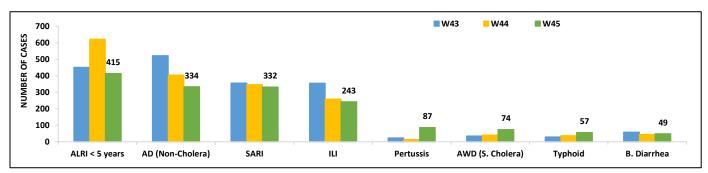


Figure 10: Week wise reported suspected cases of ALRI, GB

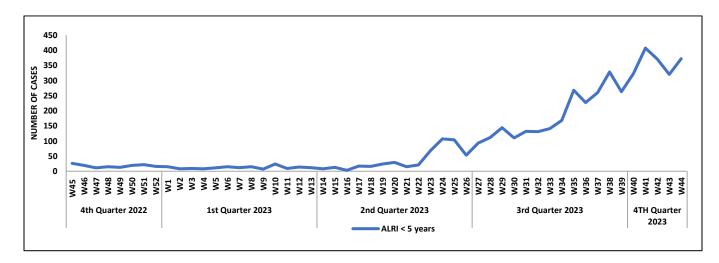












Figure 8: Week wise reported suspected cases of ILI, ALRI and ILI, AJK

Punjab

• Cases of AD (Non-Cholera) were the most frequently reported followed by Typhoid, Malaria and B. Diarrhea. AD (Non-cholera) cases showed a decline trend this week

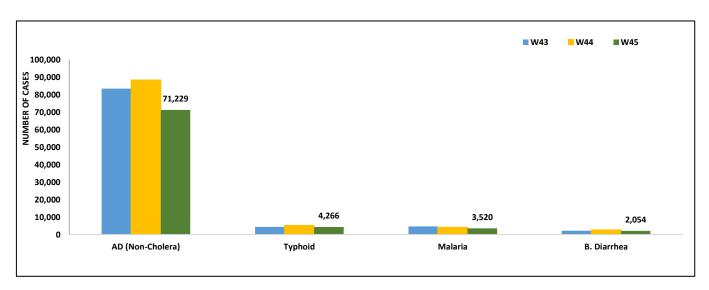


Figure 11: District wise distribution of most frequently reported suspected cases during week 45, Punjab

Table 5: Public Health Laboratories confirmed cases of IDSR Priority Diseases during Epid Week 45

| Diseases | Sindh | Balochistan | Punjab | КРК | ISL | Gilgit |
|--|-------|-------------|--------|-----|-----|--------|
| Acute Watery Diarrhoea (S. Cholera) | 1 | 0 | - | 0 | 0 | 0 |
| Acute diarrhea(non-cholera) | 0 | 0 | - | 0 | 0 | 0 |
| Malaria | 69 | 0 | - | 0 | 0 | 0 |
| CCHF | 0 | 7 | - | 2 | 0 | 0 |
| Dengue | 38 | 0 | - | 0 | 15 | 0 |
| МРОХ | 0 | 0 | - | 0 | 0 | 0 |
| Acute Viral Hepatitis(B) | 0 | 0 | - | 0 | 3 | 1 |
| Acute Viral Hepatitis(C) | 0 | 8 | - | 0 | 0 | 1 |
| Acute Viral Hepatitis(E) | 0 | 0 | - | 0 | 0 | 0 |
| Typhoid | 6 | 0 | - | 0 | 1 | 0 |
| Covid 19 | 0 | 1 | - | 0 | 0 | 0 |
| ТЬ | 0 | 0 | - | 0 | 0 | 0 |











IDSR Reports Compliance

 Out OF 121 IDSR implemented districts, compliance is low from ICT & Gilgit Baltistan districts. Green color showing >50% compliance while red color is <50% compliance

Table 6: IDSR reporting districts Week 45

| Provinces/Regions | Districts | Total Number of Reporting Sites | Number of Reported Sites for current week | Compliance Rate (%) |
|-----------------------|------------------------|------------------------------------|--|---------------------|
| | Abbottabad | 110 | 102 | 93% |
| | Bannu | 244 | 90 | 37% |
| | Battagram | 63 | 18 | 29% |
| | Buner | 33 | 27 | 82% |
| | Bajaur | 44 | 13 | 30% |
| | Charsadda | 59 | 56 | 95% |
| | Chitral Upper | 34 | 27 | 79% |
| Khyber Pakhtunkhwa | Chitral Lower | 35 | 34 | 97% |
| Pakntunknwa | D.I. Khan | 94 | 88 | 94% |
| | Dir Lower | 74 | 71 | 96% |
| | Dir Upper | 52 | 42 | 81% |
| | Hangu | 22 | 22 | 100% |
| | Haripur | 71 | 60 | 85% |
| | Karak | 39 | 39 | 100% |
| | Khyber | 64 | 12 | 19% |
| | Kohat | 96 | 61 | 64% |
| | Kohistan Lower | 11 | 11 | 100% |
| | Kohistan Upper | 20 | 20 | 100% |
| | Kolai Palas | 10 | 10 | 100% |
| | Lakki Marwat | 69 | 69 | 100% |
| | Lower & Central Kurram | 40 | 7 | 18% |
| | Upper Kurram | 42 | 16 | 38% |
| | Malakand | 48 | 37 | 77% |
| | Mansehra | 150 | 81 | 54% |
| | Mardan | 80 | 73 | 91% |
| | Nowshera | 54 | 52 | 96% |
| | North Waziristan | 22 | 0 | 0% |
| | Peshawar | 152 | 117 | 77% |
| | Shangla | 65 | 19 | 29% |
| | Swabi | 67 | 64 | 96% |
| | Swat | 76 | 68 | 89% |
| | South Waziristan | 78 | 42 | 54% |
| | Tank | 34 | 27 | 79% |
| | Torghar | 18 | 18 | 100% |
| | Mirpur | 37 | 37 | 100% |
| | Bhimber | 42 | 15 | 36% |
| | Kotli | 60 | 60 | 100% |
| | Muzaffarabad | 45 | 43 | 96% |
| | Poonch | 46 | 46 | 100% |
| | Haveli | 39 | 0 | 0% |
| Azad Jammu | Bagh | 40 | 14 | 35% |
| Kashmir | Neelum | 39 | 37 | 95% |
| | Jhelum Vellay | 29 | 29 | 100% |











| | Sudhnooti | 27 | 27 | 100% |
|-------------------|-----------------|----|----|------|
| Islamabad Capital | ICT | 35 | 12 | 34% |
| Territory | CDA | 35 | 12 | 34% |
| | Gwadar | 73 | 19 | 26% |
| | Kech | 39 | 0 | 0% |
| | Khuzdar | 20 | 20 | 100% |
| | Killa Abdullah | 20 | 0 | 0% |
| | Lasbella | 55 | 55 | 100% |
| | Pishin | 62 | 7 | 11% |
| | Quetta | 43 | 19 | 44% |
| | Sibi | 36 | 36 | 100% |
| Balochistan | Zhob | 39 | 33 | 85% |
| | Jaffarabad | 16 | 16 | 100% |
| | Naserabad | 37 | 37 | 100% |
| | Kharan | 33 | 30 | 91% |
| | Sherani | 18 | 16 | 89% |
| | Kohlu | 75 | 71 | 95% |
| | Chagi | 35 | 28 | 80% |
| | Kalat | 41 | 40 | 98% |
| | Harnai | 17 | 15 | 88% |
| | Kachhi (Bolan) | 35 | 35 | 100% |
| | Jhal Magsi | 26 | 26 | 100% |
| | Sohbat pur | 25 | 25 | 100% |
| | Surab | 32 | 11 | 34% |
| | Mastung | 45 | 45 | 100% |
| | Loralai | 33 | 25 | 76% |
| | Killa Saifullah | 28 | 27 | 96% |
| | Ziarat | 29 | 25 | 86% |
| | Duki | 31 | 22 | 71% |
| | Nushki | 32 | 30 | 94% |
| | Dera Bugti | 45 | 26 | 58% |
| | Washuk | 46 | 23 | 50% |
| | Panjgur | 38 | 12 | 32% |
| | Awaran | 23 | 0 | 0% |
| | Chaman | 24 | 20 | 83% |
| | Barkhan | 20 | 20 | 100% |
| | Hub | 33 | 33 | 100% |
| | Usta Muhammad | 34 | 34 | 100% |
| | Hunza | 32 | 31 | 97% |
| | Nagar | 20 | 0 | 0% |
| Gilgit Baltistan | Ghizer | 62 | 3 | 5% |
| - | Gilgit | 40 | 40 | 100% |
| | Diamer | 78 | 24 | 31% |
| | Astore | 54 | 2 | 4% |
| | Shigar | 27 | 23 | 85% |
| | Skardu | 52 | 43 | 83% |
| | Ganche | 29 | 9 | 31% |
| | Guildine | 25 | 5 | 5170 |











| | Hyderabad | 73 | 32 | 44% |
|-------|---------------------|-----|-----|------|
| | Ghotki | 64 | 64 | 100% |
| | Umerkot | 43 | 30 | 70% |
| | Naushahro Feroze | 107 | 62 | 58% |
| | Tharparkar | 282 | 253 | 90% |
| | Shikarpur | 60 | 60 | 100% |
| | Thatta | 53 | 42 | 79% |
| | Larkana | 67 | 60 | 90% |
| | Kamber Shadadkot | 71 | 71 | 100% |
| | Karachi-East | 23 | 21 | 91% |
| Sindh | Karachi-West | 20 | 20 | 100% |
| | Karachi-Malir | 37 | 20 | 54% |
| | Karachi-Kemari | 18 | 8 | 44% |
| | Karachi-Central | 11 | 10 | 91% |
| | Karachi-Korangi | 18 | 11 | 61% |
| | Karachi-South | 4 | 4 | 100% |
| | Sujawal | 54 | 35 | 65% |
| | Mirpur Khas | 106 | 98 | 92% |
| | Badin | 124 | 110 | 89% |
| | Sukkur | 64 | 64 | 100% |
| | Dadu | 90 | 89 | 99% |
| | Sanghar | 100 | 100 | 100% |
| | Jacobabad | 44 | 43 | 98% |
| | Khairpur | 168 | 166 | 99% |
| | Kashmore | 59 | 57 | 97% |
| | Matiari | 42 | 41 | 98% |
| | Jamshoro | 68 | 68 | 100% |
| | Tando Allahyar | 54 | 49 | 91% |
| | Tando Muhammad Khan | 40 | 40 | 100% |
| | Shaheed Benazirabad | 124 | 124 | 100% |











A note from Field Activities.

Source: DHIS-2 Reports https://dhis2.nih.org.pk/dhis-web-event-reports/

Outbreak Investigation of Chickenpox at a Private School in District and Tehsil Jhang (UC 89 & 96) from 10th-13th November 2023

Introduction

Chickenpox is a highly contagious viral infection characterized by an itchy, blister-like rash. It is caused by the varicella-zoster virus and primarily affects children. While chickenpox is usually mild and self-limiting, it can lead to serious complications in vulnerable populations such as pregnant women, newborns, and immunocompromised individuals.

Background

In November 2023, several cases of chickenpox were reported from a private school in Jhang, Pakistan. Upon investigation, it was found that the cases were clustered within a single class and that additional cases had been reported to private clinics in the area. A team of epidemiologists was dispatched to Jhang to investigate the suspected outbreak.

Methods

A descriptive study followed by a casecontrol study was conducted using a standardized pre-tested questionnaire. The team interviewed school staff, parents of infected children, and community members to gather information about the outbreak.

Results

A total of 19 cases of chickenpox were confirmed among school children, and 13 additional cases were identified through active surveillance in the community. The index case was traced to a nursery class student who had recently traveled to attend a large gathering where they were in close contact with a young adult with maculopapular rashes. The incubation period for the majority of cases was consistent with the date of the gathering.

Discussion

The outbreak of chickenpox at the private school in Jhang highlights the importance of immunization and infection prevention and control (IPC) practices in school settings. The lack of vaccination among students and the absence of proper IPC measures likely contributed to the spread of the virus.

Recommendations

To prevent future outbreaks of chickenpox and other communicable diseases in educational institutions, the following recommendations are made:

- 1. Disseminate accurate information about chickenpox, including its signs and symptoms, diagnostic criteria, and the importance of timely reporting.
- 2. Implement enhanced surveillance measures to monitor the spread of the virus and identify new cases promptly.
- Provide support and resources for vulnerable groups, such as pregnant women, newborns, and immunocompromised children, to ensure they have access to appropriate care and prevention measures.
- 4. Work closely with schools to identify and manage cases, ensuring appropriate measures are in place to prevent the spread of chickenpox within educational settings.
- 5. Promote routine vaccination against chickenpox among eligible children to reduce the risk of outbreaks and complications.

A Note from Field Activities.

Outbreak Investigation of Acute Watery Diarrhea (AWD) in Town Area of Sibi

Source: DHIS-2 Reports https://dhis2.nih.org.pk/dhis-web-event-reports/

Introduction

Acute watery diarrhea (AWD) is a common public health concern in Balochistan, Pakistan, particularly in areas with poor sanitation and access to clean water. In November 2023, there was an outbreak of AWD in the Town area of Sibi, Pakistan.











This report describes the investigation of the outbreak and the recommended interventions to prevent future outbreaks.

Methods

An outbreak investigation was conducted in Sibi from November 01st to November 12th, 2023. A structured questionnaire of the IDSR for AWD was used to assess the clinical signs and symptoms, as well as a source of drinking water, travel history, treatment history, and contact tracing done with the suspected patients. Lab Results Are Awaited.

Results

A total of 297 suspected cases of AWD were reported during the outbreak period. The affected population included individuals of various age groups, with a slight predominance of cases among the <5 Years to 5 years age group. 56.6% of cases were male, while 43.3% were female. Common clinical symptoms among suspected cases included Abdominal Cramps, diarrhea, and vomiting. Cases were dispersed throughout the Town area of Sibi, with specific clusters identified in Luni Road, Police line and Allahabad area. Lab Results for stool and water samples taken during investigation are Awaited. The investigation strongly suggests that the primary mode of transmission for this outbreak was the consumption of contaminated water, with secondary person-to-person transmission occurring within households and close communities.

Discussion

The recent outbreak of acute watery diarrhea (AWD) in Sibi, Pakistan, has highlighted the critical need for prompt and coordinated action among healthcare authorities, local communities, and relevant stakeholders to effectively control the spread of waterborne diseases and enhance overall public health resilience.

Recommendations

 Promoting hand washing with soap and water: Hand washing is the most important measure for preventing the spread of AWD. People should wash their hands frequently, especially before eating, after using the toilet, and after cleaning up feces.

- 2. Ensuring access to clean water: People should drink only clean water from a safe source.
- 3. Practicing handling safe food and storage: Food should be cooked seafood thoroughly, especially and shellfish. Vegetables and fruits should be washed thoroughly before eating. Food should be stored at a safe temperature to prevent the growth of bacteria.
- 4. Improving sanitation infrastructure: Adequate sanitation infrastructure, such as toilets and latrines, is essential for preventing the spread of AWD. People should dispose of feces properly and avoid open defecation.
- Providing oral rehydration solutions (ORS): ORS can help to prevent and treat dehydration, which is a serious complication of AWD. ORS is available at most pharmacies and health centers.
- Vaccinating children against rotavirus: Rotavirus is a common cause of AWD in children. Vaccination can help to protect children from this disease.

A Note from Field Activities.

Advancing Public Health in Punjab: IDSR District Master Trainers Program Fosters Data-Driven Decision-Making

Dr. Shahban Nadeem Manager Operations, CD&EPC, Punjab



The Integrated Disease Surveillance and Response (IDSR) system serves as a cornerstone of Pakistan's public health infrastructure. This system facilitates the collection, analysis, and dissemination of disease-related data, enabling early detection and prompt response to outbreaks.

In a concerted effort to bolster the IDSR system, the Primary and Secondary Healthcare











Department of the Ministry of Health Punjab, in collaboration with the National Institute of Health Islamabad and UKHSA, conducted an intensive training program for IDSR District Master Trainers in Multan from October 31 to November 2, 2023. This training initiative engaged the participation of over 25 individuals from across Punjab.

Training Program Overview

The training program encompassed a comprehensive curriculum, delving into various critical aspects of the IDSR system. The participants gained a thorough understanding of the IDSR system's structure, purpose, and overarching importance in safeguarding public health. The training emphasized the meticulous collection and accurate reporting of disease-related data, ensuring timely identification



and monitoring of potential outbreaks, and acquire essential skills in conducting thorough outbreak investigations, encompassing case identification, contact tracing, and risk assessment. The training also highlighted the crucial role of laboratory testing in outbreak investigations and disease surveillance, providing participants with insights into specimen collection, handling, and testing procedures. Participants were equipped with the knowledge and skills to effectively manage and analyze diseaserelated data, ensuring its utilization for informed decision-making.

To solidify their understanding and practical skills, participants were immersed in a simulated outbreak scenario. This hands-on exercise provided them with the opportunity to apply the acquired knowledge and techniques in a realistic setting, further enhancing their preparedness for real-world outbreak management.

The IDSR District Master Trainers training program emerged as a resounding success, contributing significantly to the strengthening of Pakistan's IDSR system. The newly trained master trainers will be empowered to cascade their expertise to IDSR staff at the district level, fostering a culture of enhanced data collection and reporting practices. Ultimately, these improvements in data quality and timeliness will translate into better public health outcomes for the people of Pakistan.

The training on IDSR District Master Trainers held in Multan marked a pivotal step in solidifying Pakistan's IDSR system. The trained master trainers will serve as catalysts for improvement, ensuring the effective dissemination of disease-related data and enabling timely outbreak response. This collective effort will undoubtedly contribute to the advancement of public health and well-being in Pakistan.

Letter to the Editor:

Punjab Grapples with Persistent Smog Despite 'Smart Lockdown' Measures

Dr. Muhammad Ali Mirza District Surveillance coordinator Rawalpindi.



Lahore, Pakistan, is facing a

persistent smog crisis, with the city's air quality index (AQI) reaching a very unhealthy score of 224. The main culprit is PM2.5, a fine particulate matter that











can penetrate the lungs and bloodstream, posing severe health risks.

In response to the deteriorating air quality, the Punjab government imposed a 'smart lockdown' in Lahore and other districts on Nov 18, closing schools, colleges, universities, and offices. However, these measures appear to have had little effect, as smog continues to blanket the city.

| Numerical value | Air Quality Index levels of health concern |
|-----------------|---|
| 0 to 50 | Good |
| 51 to 100 | Moderate |
| 101 to 150 | Unhealthy for sensitive groups |
| 151 to 200 | Unhealthy |
| 201 to 300 | Very Unhealthy |
| 301 to 500 | Hazardous |

The ineffectiveness of the lockdown may be partly attributed to continued vehicular traffic and inadequate compliance with the restrictions. Moreover, the root causes of smog, such as low wind speed, high humidity, temperature inversion, and emissions from vehicles, industries, and brick kilns, remain unaddressed.

The smog poses significant health hazards, particularly for those with respiratory and cardiovascular conditions, children, the elderly, and pregnant women. Symptoms of smog exposure include coughing, wheezing, chest pain, eye irritation, headache, nausea, and fatigue.

To mitigate the harmful effects of smog, experts recommend wearing masks, using air purifiers, avoiding outdoor activities during peak hours, and seeking medical attention if necessary.

The Punjab government had already intensified its efforts to combat smog, implementing stricter emission controls, promoting clean energy sources, and encouraging public awareness campaigns. The Punjab Government also announced a 1-week mandate for wearing of face masks for all citizens in smog-affected districts of Punjab. Addressing the smog crisis requires a multi-pronged approach that tackles both local and trans-boundary sources of pollution.

Precautionary Measures

Smog exposure can lead to a range of adverse health effects, including respiratory problems such as sore throat, coughing, and fever; eye irritation; itchy skin; and headaches. To minimize the impact of smog on health, it is crucial to adopt preventive measures:

- 1. Limit Outdoor Activities: Reduce unnecessary outdoor activities during periods of high smog concentrations.
- 2. Protective Gear: Utilize N95 face masks and goggles when engaging in outdoor activities to minimize inhalation of smog particles.
- 3. Avoid Smoking: Refrain from smoking, as it exacerbates the negative effects of smog on respiratory health.
- 4. Indoor Air Quality: When indoors, keep windows and other air inlets closed to reduce the penetration of smog particles.
- 5. Personal Hygiene: Wash your eyes and hands thoroughly after any outdoor activity to remove accumulated smog particles.
- 6. Hydration: Maintain adequate hydration by drinking plenty of water to help the body eliminate toxins and support overall health.
- Driving Precautions: Drive slowly and utilize fog lights during periods of reduced visibility due to smog.
- 8. Weather Updates: Stay informed about weather forecasts and smog alerts throughout the winter season.
- Inhaler Access: For individuals with asthma or Chronic Obstructive Pulmonary Disease (COPD), always carry their inhaler readily available.
- 10. Seek Medical Attention: Promptly seek medical attention if you experience any worsening of respiratory symptoms or other health concerns related to smog exposure.

Knowledge Hub

Chicken Pox: A Comprehensive Guide to Awareness and Prevention

Chicken pox, a highly contagious childhood illness caused by the varicella-zoster virus, is characterized by an itchy rash of blister-like lesions











that progress through distinct stages of development. While typically mild and self-limiting, chicken pox can cause significant discomfort and occasionally lead to complications. Knowing the signs, symptoms, and preventive measures is crucial for effectively managing chicken pox and protecting others from infection.

Symptoms and Signs of Chicken Pox

The onset of chicken pox is often marked by a fever, headache, and malaise, followed by the appearance of an itchy, red rash. This rash typically begins on the face and scalp, spreading to the body and extremities. The lesions progress through distinct stages:

- 1. Macules: Small, flat, red spots appear on the skin.
- 2. Papules: The red spots develop into raised bumps.
- 3. Vesicles: Fluid-filled blisters form on top of the papules.
- 4. Pustules: The blisters become cloudy or yellow as the fluid turns into pus.
- 5. Scabs: The pustules dry up and form scabs, which eventually fall off, leaving behind pink or white marks that may take weeks to fade.

Preventive Measures to Shield Against Chicken Pox

Fortunately, the introduction of the varicella vaccine in the late 1990s has significantly reduced the incidence of chicken pox worldwide. Vaccination is highly effective, preventing up to 98% of cases and minimizing the severity of breakthrough infections. The Centers for Disease Control and Prevention (CDC) recommends two doses of the varicella vaccine, one at 12-15 months of age and the second at 4-6 years of age.

Apart from vaccination, additional preventive measures can help curb the spread of chicken pox:

- Isolation: Chicken pox is highly contagious, especially during the first 5-7 days after the rash appears. Isolating infected individuals from others can help prevent the spread of the virus.
- 2. Good Hygiene: Frequent hand washing with soap and water, especially after touching lesions or contaminated surfaces, is essential to prevent the spread of the virus.
- 3. Avoidance of Contact: Avoiding direct contact with infected individuals, especially

those with active lesions, is crucial to minimize the risk of transmission.

- 4. Disinfection: Disinfecting frequently touched surfaces and objects can help eliminate the virus and prevent further transmission.
- 5. Covering Lesions: Covering lesions with loose-fitting clothing or bandages can prevent scratching and the spread of the virus through contact with other individuals or surfaces.

Chicken pox, though often mild, can cause significant discomfort and occasional complications. Understanding the symptoms, signs, and preventive measures is crucial for effectively managing chicken pox and protecting others from infection. Vaccination is the most effective preventive measure, and additional precautions such as isolation, good hygiene, and disinfection can further curtail the spread of the virus. With proper management, chicken pox can be successfully resolved and its impact minimized.

PREVENTION OF CHICKENPOX

















Public Health Bulletin- Pakistan

World AMR Awareness Week, November 18th to 24th, 2023, A global initiative dedicated to combating the escalating threat of antibiotic resistance.



