

Outbreak-Associated Case of Varicella
Cases Reported January 1 through March 3, 2008



Investigation by:

Kansas Department of Health & Environment
Office of Surveillance and Epidemiology
1000 SW Jackson St., Suite 210
Topeka, Kansas 66612
www.kdheks.gov

In Kansas, all children enrolled in kindergarten through third grade are required to have either proof of vaccination or history of disease. In addition, individual cases of varicella became reportable to the Kansas Department of Health and Environment in 2003. In January 2008, the Office of Surveillance and Epidemiology (OSE) began collecting information on outbreaks of varicella. From January 1 to March 3, 280 cases of varicella were reported to OSE and 167 (59.6%) were outbreak related.

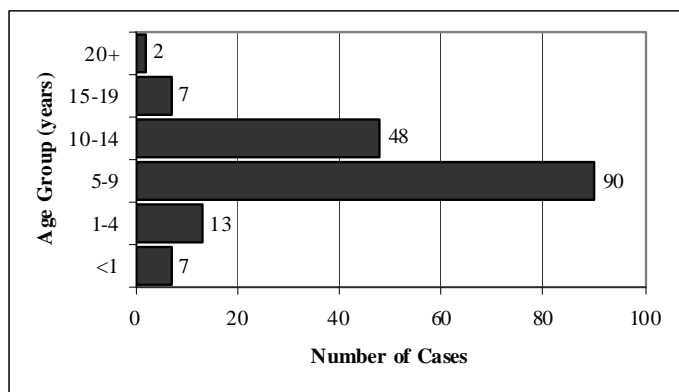
OSE identified 25 outbreaks among children (daycare through high school) in six different counties. Over half of the outbreaks were located in two large urban counties. The number of cases associated with an outbreak ranged from 2 to 32 cases.

Gender among the outbreak-associated case was evenly distributed (Table 1). The majority of the cases were white. Sixty percent of all cases were 'Not Hispanic/Latino' but information was missing on 28% of the cases. Most of the cases were aged 5 to 9 years of age, with a range of 7 months to 36 years. Teachers were among the cases in two of the outbreaks.

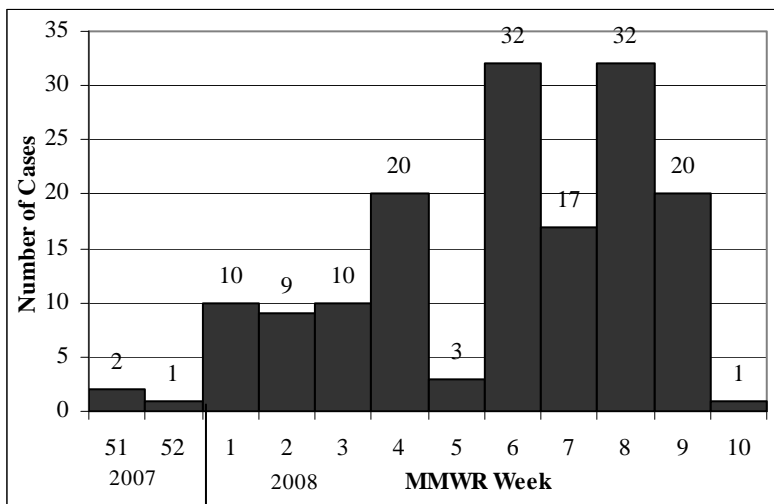
Demographics of Outbreak-associated Varicella Cases

| | |
|---------------------|---------------------|
| Gender | % |
| Male | 49.1 |
| Female | 50.3 |
| Unknown | <1 |
| Race | % |
| Asian | <1 |
| Black | 1.8 |
| White | 90.4 |
| Multiple race | 1.8 |
| Unknown | 5.4 |
| Ethnicity | % |
| Hispanic/Latino | 12.6 |
| Not Hispanic/Latino | 59.3 |
| Unknown | 28.1 |
| Age | |
| Median | 9 years |
| Range | 7 months - 36 years |

Age Groups of Outbreak-associated Varicella Cases



Epidemiologic Curve of Outbreak-associated Varicella Cases Based on Onset Date



Varicella Outbreaks in School Settings, Reported January 1 through March 3, 2008

| County | Onset date of 1st case | Onset date of most recent case | Total cases | Number of cases by grade | | | | | | | | | | | | | Unknown | | | | | | |
|----------|------------------------|--------------------------------|-------------|--------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|----|---------|----|----|--|--|--|----|
| | | | | Daycare | Preschool Pre-K | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | 11 | 12 | | | | |
| Cowley | 12/15/2007 | 1/5/2008 | 4 | | | | | | | | 2 | 1 | | | | | | | | | | | |
| Sedgwick | 12/21/2007 | 1/9/2008 | 7 | | | | | | | 4 | 3 | | | | | | | | | | | | |
| Sedgwick | 1/3/2008 | 2/18/2008 | 5 | | | | 2 | | 2 | | | | | 1 | | | | | | | | | |
| Ford | 1/4/2008 | 1/8/2008 | 4 | | | | | | | | | | | | | | | | | | | | 4 |
| Cowley | 1/5/2008 | 1/19/2008 | 6 | | | | 1 | 1 | 1 | 2 | 1 | | | | | | | | | | | | |
| Cowley | 1/5/2008 | 2/5/2008 | 3 | | | | | | 3 | | | | | | | | | | | | | | |
| Cowley | 1/7/2008 | 2/6/2008 | 5 | | | | 1 | 1 | 1 | 2 | | | | | | | | | | | | | |
| Cowley | 1/9/2008 | 1/22/2008 | 3 | | | | | | | | 2 | 1 | | | | | | | | | | | |
| Johnson | 1/10/2008 | 2/8/2008 | 5 | | | | | | | 5 | | | | | | | | | | | | | |
| Sedgwick | 1/11/2008 | 2/23/2008 | 32 | | | | 2 | 1 | 9 | 3 | 3 | 1 | | | | | | | | | | | 11 |
| Morris | 1/19/2008 | 1/23/2008 | 2 | | 2 | | | | | | | | | | | | | | | | | | |
| Cowley | 1/20/2008 | 2/6/2008 | 4 | | 4 | | | | | | | | | | | | | | | | | | |
| Sedgwick | 1/21/2008 | 1/21/2008 | 2 | | | | | | 3 | | | | | | | | | | | | | | |
| Johnson | 1/22/2008 | 2/11/2008 | 4 | | | | | | | | | | 1 | | 3 | | | | | | | | |
| Johnson | 1/22/2008 | 2/23/2008 | 23 | | | | 6 | 2 | 9 | 4 | 1 | | | | | | | | | | | | |
| Johnson | 1/27/2008 | 2/14/2008 | 2 | | 2 | | | | | | | | | | | | | | | | | | |
| Barton | 1/28/2008 | 1/29/2008 | 2 | | | | | | | | | | | | | | 2 | | | | | | |
| Johnson | 2/4/2008 | 2/26/2008 | 4 | | | | 1 | | | 1 | 1 | 1 | | | | | | | | | | | |
| Sedgwick | 2/9/2008 | 2/11/2008 | 14 | | | | | | | | 4 | | 1 | | | | | | | | | | |
| Johnson | 2/9/2008 | 2/16/2008 | 3 | | | | | | | | | | 3 | | | | | | | | | | |
| Harvey | 2/12/2008 | 2/28/2008 | 17 | 17 | | | | | | | | | | | | | | | | | | | |
| Johnson | 2/13/2008 | 2/16/2008 | 2 | | | 2 | | | | | | | | | | | | | | | | | |
| Johnson | 2/16/2008 | 2/17/2008 | 2 | | | | 2 | | | | | | | | | | | | | | | | |
| Sedgwick | 2/16/2008 | 2/28/2008 | 3 | | | | 2 | 1 | | | | | | | | | | | | | | | |
| Meade | 2/18/2008 | 2/20/2008 | 4 | | 1 | | | | 3 | | | | 1 | | | | | | | | | | |

Shaded grades (K-3) indicate those grades that require either history of vaccination or disease.