

**For Local Use Only**

**VARICELLA DEATH INVESTIGATION WORKSHEET**

Name \_\_\_\_\_ Hospital Record Number \_\_\_\_\_  
LAST / FIRST / MIDDLE

Current Address \_\_\_\_\_  
NUMBER / STREET / APT. NUMBER

City / County / State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Telephone: Home \_\_\_\_\_ Work \_\_\_\_\_  
AREA CODE + 7 DIGITS AREA CODE + 7 DIGITS

Reporting Physician/ Nurse/Hospital/ Clinic/Lab \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 Telephone Number \_\_\_\_\_  
AREA CODE + 7 DIGITS

Detach here — Transmit only lower portion if sent to CDC

**VARICELLA DEATH INVESTIGATION WORKSHEET**

Form Approved  
 OMB No. 0920-0728  
 Exp. Date 2/28/2011

Reported by: State \_\_\_\_\_ Case Number \_\_\_\_\_

**DEMOGRAPHIC DATA**

1. **Date of Birth**          
MONTH DAY YEAR

2. **Current Age**    (Unknown=999)

3. **Age Type**  Years  Days  Hours  
 Months  Weeks  Unknown

4. **Sex**  Male  Female  Unknown

5. **Ethnicity**  Hispanic  Not Hispanic  Unknown

6. **Race**  American Indian or Alaska Native  
 Asian  Black or African-American  
 Native Hawaiian or Other Pacific Islander  
 White  Other  Unknown

7. **Date of Death**          
MONTH DAY YEAR

8. **Country of Birth** \_\_\_\_\_

9. **If not born in the U.S., patient lived in U.S. for**   years.

10. **Occupation**  
 Healthcare Worker  
 Teacher  
 Day Care Worker  
 Military Personnel  
 College Student  
 Staff in Institutional Setting (e.g., Correctional Facility)  
 Other (specify) \_\_\_\_\_

11. **History of varicella before this infection?**  Y  N  U

12. **If yes, age at infection?**    (Unknown=999)

13. **Age Type**  Years  Days  Hours  
 Months  Weeks  Unknown

14. **History of serologic evidence of immunity?**  Y  N  U

15. **Varicella Vaccine History**  Vaccinated  
 Not Vaccinated  
 Unknown

16. **If vaccinated**  
**Date Dose 1**          
MONTH DAY YEAR  
**Date Dose 2**          
MONTH DAY YEAR

17. **If not vaccinated, was there a contraindication to vaccination?**  Y  N  U  
 If yes, specify \_\_\_\_\_

18. **Type of contraindication**  
 Medical  Philosophical  
 Religious  Other \_\_\_\_\_

19. **Pre-existing conditions?**  Y  N  U  
 (Check all that apply)  
 Cancer Type: \_\_\_\_\_  
 Transplant Recipient Organ: \_\_\_\_\_  
 Immune Deficiency Type: \_\_\_\_\_  
 Pregnancy  
 Chronic Renal Failure  
 Diabetes Mellitus  
 Tuberculosis  
 Asthma  
 Chronic Lung Disease Specify: \_\_\_\_\_  
 Chronic Dermatologic Disorder Specify: \_\_\_\_\_  
 Chronic Autoimmune Disease (e.g., Lupus, Rheumatoid Arthritis) Specify: \_\_\_\_\_  
 Other Specify: \_\_\_\_\_

20. **For a child <1 year old, did his/her mother have a history of varicella?**  Y  N  U

21. **For a child <1 year old, did his/her mother have a history of receipt of varicella vaccine?**  Y  N  U

22. **Is this death the result of congenital varicella infection?**  Y  N  U

23. **In the month prior to rash onset, did the decedent take any of the following?**  
**Systemic Steroids**  Y  N  U  
 Name of Steroid: \_\_\_\_\_  
 Dose:   mg/day

**Inhaled Steroids**  Y  N  U  
 Name of Steroid: \_\_\_\_\_  
 Dose:   mg/day

**Other Systemic Medication**  Y  N  U  
 List medication  
 1) \_\_\_\_\_ 3) \_\_\_\_\_  
 2) \_\_\_\_\_ 4) \_\_\_\_\_



Department of Health and Human Services  
 Centers for Disease Control and Prevention



Public reporting burden of this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer, 1600 Clifton Road NE, MS D-74 Atlanta, Georgia 30333; ATTN: PRA (0920-0007).

**ILLNESS PRIOR TO DEATH**

Y=Yes N=No U=Unknown

24. **Rash Onset Date** MONTH DAY YEAR

25. **Was the rash generalized?**  Y  N  U

26. **When first noted, did rash lesions seem to cluster on one side of the body?**  Y  N  U

If "yes," were lesions clustered on one limited area of the body involving no more than 3 dermatomes?  Y  N  U

If "yes," which area? (check all that apply)

- Face/Head
- Arms
- Legs
- Trunk
- Inside Mouth
- Other (Specify) \_\_\_\_\_

27. **Was the patient hospitalized?**  Y  N  U

**Admission Date** MONTH DAY YEAR

If obtainable, please attach a copy of the hospital discharge summary.

**COMPLICATIONS** (check all that apply)

28.  **Secondary Infection**

- From
- Strep
    - Group A beta-hemolytic
    - Other type
    - Unknown type
  - Staph
    - MRSA
    - Other (Specify) \_\_\_\_\_
  - Mixed
  - Other (Specify) \_\_\_\_\_

Type of Infection

- Cellulitis
- Osteomyelitis
- Impetigo/Infected Skin Lesions
- Necrotizing Fasciitis
- Lymphadenitis
- Toxic Shock Syndrome
- Abscess
- Sepsis/Septicemia
- Septic Arthritis
- Other (Specify) \_\_\_\_\_

29.  **Pneumonia/Pneumonitis**  
Etiology, if known \_\_\_\_\_

30.  **Neurologic Complications**

- Cerebellitis/Ataxia
- Encephalitis
- Other (Specify) \_\_\_\_\_

31.  **Reye Syndrome**

32.  **Other (Specify)** \_\_\_\_\_

**TREATMENT - MEDICATIONS** (check all that apply)

33.  **Acyclovir**

- Oral** Dose  mg/day  
Start Date MONTH DAY YEAR     
Duration  days
- IV** Dose  mg/day  
Start Date MONTH DAY YEAR     
Duration  days

34.  **Famciclovir**

- Dose  mg/day
- Start Date MONTH DAY YEAR     
Duration  days

35.  **Valacyclovir**

- Dose  mg/day
- Start Date MONTH DAY YEAR     
Duration  days

36.  **Varicella Zoster Immune Globulin (VZIG)**

- Dose  U's
- Date Admin'd MONTH DAY YEAR

37.  **Aspirin**

38.  **Non-Steroidal Anti-Inflammatory Drugs (e.g., ibuprofen)**

continues

39. Was laboratory testing done for varicella? If "yes":  Y  N  U

40. Direct fluorescent antibody (DFA) technique?  Y  N  U

Date of DFA   /   /      
MONTH DAY YEAR

DFA Result  Positive  Pending  
 Negative  Not Done  
 Indeterminate  Unknown

41. PCR specimen?  Y  N  U

Date of PCR Specimen   /   /      
MONTH DAY YEAR

Source of PCR specimen: (check all that apply)  
 Vesicular Swab  Saliva  
 Scab  Blood  
 Tissue Culture  Urine  
 Buccal Swab  Macular Scraping  
 Other \_\_\_\_\_

PCR Result  Varicella Positive  Not Done  
 Varicella Negative  Pending  
 Indeterminate  Unknown  
 Other \_\_\_\_\_

Was the PCR specimen adequate (i.e., was it actin positive)?  Y  N  U

42. Culture performed?  Y  N  U

Date of Culture Specimen   /   /      
MONTH DAY YEAR

Culture Result  Positive  Pending  
 Negative  Not Done  
 Indeterminate  Unknown

43. Was other laboratory testing done? If "yes":  Y  N  U

Specify Other Test  Tzanck smear  
 Electron microscopy

Date of Other Test   /   /      
MONTH DAY YEAR

Other Lab Test Result  Positive (results consistent with varicella infection)  
 Negative  Not Done  
 Indeterminate  Unknown  
 Pending

Test Result Value \_\_\_\_\_

44. Serology performed?  Y  N  U

45. IgM performed? If "yes":  Y  N  U

Type of IgM Test  Capture ELISA  Unknown  
 Indirect ELISA  Other \_\_\_\_\_

Date IgM Specimen Taken   /   /      
MONTH DAY YEAR

IgM Test Result  Positive  Pending  
 Negative  Not Done  
 Indeterminate  Unknown

Test Result Value \_\_\_\_\_

46. IgG performed? If "yes":  Y  N  U

Type of IgG Test:

Whole Cell ELISA (specify manufacturer): \_\_\_\_\_

gp ELISA (specify manufacturer): \_\_\_\_\_

FAMA  Latex Bead Agglutination

Other \_\_\_\_\_

Date of IgG-Acute   /   /      
MONTH DAY YEAR

IgG-Acute Result  Positive  Pending  
 Negative  Not Done  
 Indeterminate  Unknown

Test Result Value \_\_\_\_\_

Date of IgG-Convalescent   /   /      
MONTH DAY YEAR

IgG-Conv. Result  Positive  Pending  
 Negative  Not Done  
 Indeterminate  Unknown

Test Result Value \_\_\_\_\_

47. Were the clinical specimens sent to CDC for genotyping (molecular typing)? If "yes":  Y  N  U

Date sent for genotyping   /   /      
MONTH DAY YEAR

48. Was specimen sent for strain (wild- or vaccine-type) identification?  Y  N  U

Strain Type  Wild Type Strain  
 Vaccine Type Strain  
 Unknown

49. Any herpes simplex virus testing performed? If "yes":  Y  N  U

Type of Test \_\_\_\_\_

Date of Other Test   /   /      
MONTH DAY YEAR

Test Result  Positive  Pending  
 Negative  Unknown  
 Indeterminate

**It can be difficult to distinguish varicella from disseminated herpes zoster (shingles). Serum or blood** obtained from the decedent prior to or early in illness (i.e., weeks before to ~4 days after rash onset) could be used to test for evidence of prior varicella infection, which could sometimes help distinguish these two conditions. **If there is doubt whether the cause of death was related to varicella or to disseminated herpes zoster, an effort should be made as soon as possible to determine whether any such blood or serum specimens may be available.** For instance, serum specimens at hospital laboratories or blood banks may be retained for many weeks.

50. Discharge summary information available?  Y  N  U

51. Varicella included among diagnoses?  Y  N  U

52. Discharge Diagnoses ICD-9 Code  
a. \_\_\_\_\_ .\_\_\_\_\_  
b. \_\_\_\_\_ .\_\_\_\_\_  
c. \_\_\_\_\_ .\_\_\_\_\_

d. \_\_\_\_\_ .\_\_\_\_\_  
e. \_\_\_\_\_ .\_\_\_\_\_  
f. \_\_\_\_\_ .\_\_\_\_\_  
g. \_\_\_\_\_ .\_\_\_\_\_  
h. \_\_\_\_\_ .\_\_\_\_\_  
i. \_\_\_\_\_ .\_\_\_\_\_  
j. \_\_\_\_\_ .\_\_\_\_\_

**POST-MORTEM EXAM**

Y=Yes N=No U=Unknown

53. Post-mortem exam done?  Y  N  U

54. Varicella included among diagnoses?  Y  N  U

55. If evidence of varicella, significant findings related to varicella-zoster virus infection, by organ system:

- a. Organ \_\_\_\_\_  
Findings \_\_\_\_\_
- b. Organ \_\_\_\_\_  
Findings \_\_\_\_\_
- c. Organ \_\_\_\_\_  
Findings \_\_\_\_\_
- d. Organ \_\_\_\_\_  
Findings \_\_\_\_\_
- e. Organ \_\_\_\_\_  
Findings \_\_\_\_\_
- f. Other \_\_\_\_\_  
\_\_\_\_\_

**DEATH CERTIFICATE**

Y=Yes N=No U=Unknown

56. Death certificate available?  Y  N  U

57. Varicella included as one cause of death?  Y  N  U

58. Cause of Death ICD-9 Code  
a. \_\_\_\_\_ .\_\_\_\_\_  
b. \_\_\_\_\_ .\_\_\_\_\_  
c. \_\_\_\_\_ .\_\_\_\_\_  
d. \_\_\_\_\_ .\_\_\_\_\_

Contributing Conditions ICD-9 Code  
a. \_\_\_\_\_ .\_\_\_\_\_  
b. \_\_\_\_\_ .\_\_\_\_\_  
c. \_\_\_\_\_ .\_\_\_\_\_  
d. \_\_\_\_\_ .\_\_\_\_\_

**SOURCE**

Y=Yes N=No U=Unknown

59. Case had close contact with a person with known or suspected infection 10-21 days before rash onset?  Y  N  U

60. Source had  Shingles  Varicella  Unknown

61. Current Age  (Unknown=999)

62. Age Type  Years  Days  Hours  
 Months  Weeks  Unknown

63. Varicella vaccine history of source  Source vaccinated  
 Source not vaccinated

64. If not vaccinated, source had contraindication to vaccination?  Y  N  U

If yes, specify \_\_\_\_\_

65. Transmission Setting (Setting of Exposure)  Athletics  Hospital Outpatient Clinic  
 College  Hospital Ward  
 Community  International Travel  
 Correctional Facility  Military  
 Daycare  Place of Worship  
 Doctor's Office  Home  School  
 Hospital ER  Work  
 Other \_\_\_\_\_  Unknown

66. If transmission was in the home  
 Transmission from family member by adoption  
 Transmission from family member biologically related

67. Any international travel in the 4 weeks prior to illness?  Y  N  U  
If yes, what dates? \_\_\_\_\_  
What country(ies)? \_\_\_\_\_