## SIMIAN VARICELLA VIRUS (CEROPITHECINE HERPESVIRUS 6, 7, 9) AND VARICELLA-ZOSTER VIRUS (HUMAN HERPESVIRUS 3)

<table>
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<tr>
<th>Animal Group(s) Affected</th>
<th>Transmission</th>
<th>Clinical Signs</th>
<th>Severity</th>
<th>Treatment</th>
<th>Prevention and Control</th>
<th>Zoonotic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varicella-zoster virus (VZV) affects man and Pongidae</td>
<td>Direct contact, inhalation of aerosolized virus</td>
<td>VZV: chickenpox or zoster in NHP SVV: generalized vesicular eruptions, hyperthermia</td>
<td>Rarely a fatal disease. Severity depends on age and immune-competency.</td>
<td>Acyclovir, Vidarabine monophosphate, Foscarnet, and other anti-virals.</td>
<td>Avoid contact between humans with chickenpox/Zoster and non-human primates. Isolate affected NHP</td>
<td>Not reported as a zoonotic disease</td>
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<tr>
<td>Simian Varicella Virus (SVV) affects African and Asian NHP</td>
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**Fact Sheet compiled by:** Sam Rivera; updated by Jan Ramer  
**Sheet completed on:** 1 June 2011; updated 23 July 2013  
**Fact Sheet Reviewed by:** Sam Rivera; Kevin Brunner  
**Susceptible animal groups:** VZV: Pongidae; SVV: Old world NHP, apes, and humans.  
**Causative organism:** Simian varicella virus (Ceropithecine herpesvirus 6, 7 and 9), Varicella-zoster virus (Human herpesvirus 3).  
**Zoonotic potential:** Not reported  
**Distribution:** Simian Varicella Viruses occur naturally in Africa and Asia and are found worldwide in captive populations. Human Varicella-Zoster Virus is found worldwide.  
**Incubation period:** VZV: 7-14 days; SVV: 10-15 days  
**Clinical signs:**  
VZV: In Pongidae, pruritic, pustulovesicular rash, conjunctivitis, fever, anorexia, lethargy, lymphadenopathy, coughing, and sneezing can be observed. Zoster with severe axillary and thoracic cutaneous ulceration was reported in an elderly gorilla with concurrent immunosuppressive disease.  
SVV: generalized vesicular rash, mild fever, anorexia, lethargy, vesiculoulcerative dermatitis is observed. Although rarely a fatal disease, high fatality (within 48 hours) has been reported in natural outbreaks.  
**Post mortem, gross, or histologic findings:** VZV in Pongidae occasionally chickenpox-like disease or oral/perioral vesicles. SVV: vesiculoulcerative lesions of the skin, and oral mucous membranes, hemorrhages and necrosis in internal organs.  
**Diagnosis:** Serology, virus isolation, PCR, EM  
**Material required for laboratory analysis:** Vesicular material, whole blood or serum.  
**Relevant diagnostic laboratories:**  
Pathogen Detection Laboratory  
California National Primate Research Center, Road 98 & Hutchison  
University of California  
Davis, California 95616  
(530) 752-8242  
Fax: (530) 752-4816  
PDL@primate.ucdavis.edu
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http://pdl.primate.ucdavis.edu

BioReliance
Serology/PCR Laboratories
14920 Broschart Rd.
Rockville, Maryland 20850
(301) 610-2227
(310) 610-2587
ahs@bioreliance.com

Virus Reference Laboratories, Inc.
7540 Louis Pasteur Road
San Antonio, Texas 78229
(877) 615-7275
Fax: (210) 615-7771

Zoologix Inc.
9811 Owensmouth Avenue, Suite 4
Chatsworth, California 91311-3800
818-717-8880
818-717-8881
info@zoologix.com

<table>
<thead>
<tr>
<th>Treatment:</th>
<th>Varicella-Zoster immunoglobulins, acyclovir, famcyclovir, valacyclovir, trifluridine, vidarabine monophosphate, foscarnet.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevention and control:</td>
<td>Avoid contact between humans with chickenpox or zoster and NHP.</td>
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<tr>
<td>Suggested disinfectant for housing facilities:</td>
<td>Organic solvents, detergents, proteases, UV-light, heat.</td>
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<td>Notification:</td>
<td>None at this time.</td>
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<td>Measures required under the Animal Disease Surveillance Plan:</td>
<td>None at this time.</td>
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<td>Measures required for introducing animals to infected animal:</td>
<td>Self-limiting disease, animals can be introduced once skin lesions heal.</td>
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<tr>
<td>Conditions for restoring disease-free status after an outbreak:</td>
<td>Self-limiting disease</td>
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</tbody>
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2. http://wildpro.twycrosszoo.org/List_Vols/GreatApesViral/Varicella- |


