# CALLITRICHID HEPATITIS
(Lymphocytic Choriomeningitis Virus)

<table>
<thead>
<tr>
<th>ANIMAL GROUP AFFECTED</th>
<th>TRANSMISSION</th>
<th>CLINICAL SIGNS</th>
<th>FATAL DISEASE?</th>
<th>TREATMENT</th>
<th>PREVENTION &amp; CONTROL</th>
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<tbody>
<tr>
<td>Callitrichidae, Callimiconinae, Rodents, Man</td>
<td>Horizontal (Ingestion of feral mice)</td>
<td>In marmosets: dyspnoe, anorexia, lethargy, jaundice</td>
<td>Yes</td>
<td>None</td>
<td><em>In houses</em> Rodent control</td>
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<td></td>
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<td><em>in zoos</em> rodent control</td>
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</tbody>
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**Fact sheet compiled by**
Manfred Brack, formerly German Primate Center, Göttingen/Germany.

**Last update**
November 2003

**Fact sheet reviewed by**
W. Rietschel, Wilhelma Zoologischer-Botanischer Garten, Stuttgart, Germany
C. Furley, Howletts Zoo, Bekesbourne, United Kingdom

**Susceptible animal groups**

**Causative organism**
Lymphocytic Choriomeningitis (LCM) Virus ( Arenaviridae ).

**Zoonotic potential**
Yes.

**Distribution**
USA, Europe.

**Transmission**
Horizontal through ingestion of feral mice (pinkies) or contaminated food or water (virus shed in urine and other body excretions).

**Incubation period**
1 – 3 weeks.

**Clinical symptoms**
In marmosets: dyspnoe, anorexia, lethargy, jaundice, haemorrhages, elevated liver enzymes; in man: rash, meningitis, in infants blindness, deafness, mental retardation, paresis.

**Post mortem findings**
In marmosets: hepatitis, multifocal hepatocyte necrosis, acidophilic inclusion bodies resembling Councilman bodies, lymphadenopathy, pulmonary edema; in man: hydrocephalus, chorioretinitis, meningitis.

**Diagnosis**
Serology: ELISA, Western blotting, PCR. Virus isolation, histopathology, immunohistochemistry, in situ hybridization

**Material required for laboratory analysis**
Paraffin embedded tissues, serum

**Relevant diagnostic laboratories**
The Simian Diagnostic Laboratory at Virus Reference Laboratories Inc.
7540 Louis Pasteur Road
SAN ANTONIO / Texas 78229
Tel.: (210) 614 – 7350
Fax: (210) 614 – 7355

**Treatment**
Prevention and control in zoos
Rodent control,

**Suggested disinfectant for housing facilities**

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**EAZWV Transmissible Disease Fact Sheet**
Sheet No. 10
### Notification

Guarantees required under EU Legislation

Guarantees required by EAZA Zoos

Measures required under the Animal Disease Surveillance Plan

Measures required for introducing animals from non-approved sources

Measures to be taken in case of disease outbreak or positive laboratory findings

Conditions for restoring disease-free status after an outbreak

Experts who may be consulted

### References