**EPSTEIN – BARR VIRUS (EBV) AND EBV – RELATED SIMIAN VIRUSES**

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<th>ANIMAL GROUP AFFECTED</th>
<th>TRANSMISSION</th>
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<td>EBV: possibly Pongidae. EBV-like viruses: orang-utans, baboons, Cebidae, <em>Nycticebus coucang</em></td>
<td>Contact, EBV also by oral routes in early childhood</td>
<td>EBV in man mostly silent, otherwise Infectious Mononucleosis, Burkitt's lymphoma, nasopharyngeal carcinomas. In great apes lymphoproliferative disorders</td>
<td>In cases of malignant tumours or lymphomas</td>
<td>In houses</td>
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**Susceptible animal groups**
EBV : Pongidae ; EBV-like simian viruses particularly New World monkeys (Callitrichidae, Aotidae).

**Causative organism**

**Zoonotic potential**
Yes.

**Distribution**
EBV in man World - wide, *H.saimiri* naturally in *Saimiri sciureus*.

**Transmission**
Mostly by direct contact, EBV in children also by oral route.

**Incubation period**

**Clinical symptoms**
Mostly silent infections. EBV in man otherwise Infectious Mononucleosis, nasopharyngeal carcinomas (Chinese), Burkitt’s lymphoma (Africa), non-Hodgkin’s lymphoma; in great apes possibly malignant lymphomas. *Herpesvirus saimiri* in squirrel monkeys symptomless, in *Callithrix jacchus* and *Aotus trivirgatus* occasionally weight loss, inappetence, diarrhoea, abdominal masses, rarely spontaneous malignant lymphomas. *H.pongo* has been isolated from leukemic orang-utans, *H. papio* from leukemic *Papio hamadryas*.

**Post mortem findings**
Lymphoproliferative disorders due to delayed apoptosis of B-cell lineage.
Diagnosis
Histopathology, immunohistochemistry, tissue culture, PCR.

Material required for laboratory analysis
Lymph nodes, spleen, whole blood, bone marrow.

Relevant diagnostic laboratories
1. Virus Reference Laboratories, Inc.
   7540 Louis Pasteur Road,
   SAN ANTONIO, Tx 78229
   Phone (210) 614 – 7350
   Fax: (210) 614-7355

2. Konsiliarlaboratorium für EBV, HHV 6,7,8
   Institut für Medizinische Mikrobiologie und Hygiene
   Staatliche Medizinaluntersuchungsstelle
   Universitätskliniken, Haus 47
   D 66421 Homburg/Saar
   Tel.: 06841 162 3931
   Fax: 3935
   e-mail: vinmue@uniklinik-saarland.de

Treatment

Prevention and control in zoos

Suggested disinfectant for housing facilities

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
1. Prof. Dr. Müller – Lantzsch, Konsiliarlaboratorium Homburg/Saar,
2. Dr. B. Gärtner

References