

TETANUS

| ANIMAL GROUP AFFECTED | TRANSMISSION | CLINICAL SIGNS | FATAL DISEASE ? | TREATMENT | PREVENTION & CONTROL |
|--|---------------------------|---|------------------------|-------------------------------|---|
| <i>Macaca mulatta</i> , <i>Papio cynocephalus</i> , <i>Callicebus moloch</i> , <i>Saimiri sciureus</i> | Deep wounds (bite wounds) | Lockjaw: torpor, stiffening, trismus, opisthotonus, status epilepticus, death | Yes | Hyperimmune serum, Penicillin | <i>In houses</i> <i>in zoos</i> vaccination |

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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 <i>Macaca mulatta</i> , <i>Papio cynocephalus</i> , <i>Callicebus moloch</i> , <i>Saimiri sciureus</i> . | |
| Causative organism <i>Clostridium tetani</i> . | |
| Zoonotic potential Questionable. | |
| Distribution World-wide. | |
| Transmission Deep wounds – bite wounds! | |
| Incubation period In man 2 – 14 days. | |
| Clinical symptoms Torpor, inability to prehend food, difficulties in swallowing food, stiffening “kangaroo hopping”, trismus, opisthotonus, status epilepticus, death. | |
| Post mortem findings None. | |
| Diagnosis Clinical Symptoms, only exceptionally anaerobic cultivation of the lesions. | |
| Material required for laboratory analysis | |
| Relevant diagnostic laboratories Konsiliarlaboratorium für anaerobe Bakterien Zentrum für Infektionsmedizin Institut für Medizinische Mikrobiologie und Infektionsepidemiologie Universität Leipzig Liebigstr. 24 D 04103 Leipzig Tel.: 0341 – 9715 200 Fax: “ “ 209 e-mail: acr@medizin.uni-Leipzig.de | |
| Treatment Hyperimmuneserum, Penicillin, Tetracycline. | |
| Prevention and control in zoos Tetanus – toxoid vaccination. | |
| Suggested disinfectant for housing facilities | |



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| 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 Prof. Dr. A. C. Rodloff, Konsiliarlaboratorium Leipzig |
| References 1. Brack, M. 1987. Agents Transmissible from Simians to Man. Springer, Berlin. 2. Goodwin, W. J., R. J. Haines, and J. Bernal. 1987. Tetanus in baboons of a corral breeding colony. Lab. Anim. Sci. 37. 231 – 232. 3. Kessler, M. J., J. D. Berard, and R. D. Rawlins. 1988. Effect of tetanus toxoid inoculation on mortality in the Cayo Santiago macaque population. Am. J. Primatol. 15: 93 – 101. |