

# Cat-scratch disease

**Cat-scratch disease (CSD)** or **bartonellosis** is a disease caused by ***Bartonella henselae***. There is also a possibility of transmission by ticks and fleas to humans, especially from cats and dogs. The disease usually affects cat breeders, people with immunodeficiency, polymorbid people or people living in poor hygiene conditions.

## Clinical image

Papular lesions may appear approximately 5-10 days after being scratched or bitten by a cat or a tick bite. **Accompanying symptoms** may include malaise, fatigue, headache and subfebrile illness.

- Only 10-20% of infections are symptomatic and occurs with the same clinical manifestation as **nodular syndrome** with enlargement of the cervical and neck lymph nodes. The lymph nodules are often not very large.
- In some cases, the number of affected lymph nodes may rarely occur.<sup>[1]</sup>
- **Ocular form** manifests itself as acute granulomatous uveitis or as acute chorioretinitis. It usually takes the form of a unilateral acute or recurrent lesion.
- Rarely, the central or peripheral nervous system, skin (rash, vasculitis), joints or other organs (hepatitis, myocarditis, pneumonitis) are affected.

Symptoms usually subside slowly within 2 months, but may be replaced by chronic problems. The disease can be accompanied by *complications* such as widespread infection, which is especially common in immunosuppressed individuals.

## Diagnostics

Usually a **clinical diagnosis** is made, which can be supplemented with **serology** - immunofluorescence or ELISA. *Bartonella* are sensitive, require extended incubation time ("chocolate" agar). PCR can also be used for the assay.

In the blood count, there is **leukocytosis**, **thrombocytopenia**, **anemia**; serum alkaline phosphatase is elevated.

## Treatment

Therapy consists of the administration of antibiotics - erythromycin, tetracycline, rifampicin.

## References

### Related articles

- Bartonella henselae

### External links

- SZÚ: Onemocnění přenášená klíšťaty v České republice (<http://www.szu.cz/tema/prevence/onemocneni-prenasena-klistaty-v-ceske-republice>)

### Reference

1. FOJTÍKOVÁ, Monika. *Nemoc z kočičího škrábnutí* [online]. [cit. 2017-02-05]. <<http://www.pediatricpropraxi.cz/pdfs/ped/2009/01/09.pdf>>

### Literature

- GILLESPIE, SH a KB BAMFORD. Medical Microbiology and Infection at a Glance. 1. vydání. London : Blackwell Science, 2000. ISBN 978-1405111737.
- BERAN, GW a KB BAMFORD. Handbook of Zoonoses, Section A: Bacterial, Rickettsial, Chlamydial and Mycotic. 2. vydání. Florida : CRC Press, 1994. ISBN 978-0849332050.
- University of South Carolina. Microbiology and immunology online [online]. ©2007. Poslední revize 2009, [cit. 2009]. <[http://www.sc.edu/study/colleges\\_schools/medicine/education/basic\\_science\\_departments/pathology\\_microbiology\\_and\\_immunology/index.php](http://www.sc.edu/study/colleges_schools/medicine/education/basic_science_departments/pathology_microbiology_and_immunology/index.php)>.