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During the work we described external clinical signs, pathoanatomical changes and diagnostics of diseases, using standard histological and histochemical methods.





















Conclusion hor/ISAA

M. cerebralis were determined from salmonid and nonsalmonid fishes. This pathogenic agent was revealed in fishes from basins of the rivers of western and eastern coast of Kamchatka.

The visual signs of a pathology in salmon were black discoloration of skin, lethargic swimming behavior, the delayed response on external stimulus. The following pathological lesions were determined in the surveyed fishes: in salmonids spores and developing stages of the parasite caused local necrosis of vertebrae ribs and lysis of the chondrocytes. The formation by epithelial granuloma around of the affected area of a tissue was marked.

In nine-spined stickleback the cartilaginous tissue of a spinal column has been completely replaced with mature spores of the parasite without granuloma formation and destroyed head cartilage.

May be nine-spined stickleback is natural carrier or source of *M. cerebralis* for salmonids fish in reservoir of Kamchatka.

It is necessary to make a point of detection of *M. cerebralis* in Lake Nachikinskoe as basin of the river Bolshaya where two fish-hatcheries are located that reared fingerlings of sockeye, chum and chinook salmons.

