PP-20

Polyserositis Associated with Streptococcal Infection in Cultured Flatfish

Sang-Chul Kang, Hyoung-Seok Yang, Jong-Hee Bae, Won-Geun Son and Jae-Hoon Kim

Department of Veterinary Medicine, College of Agriculture and Life Science, Cheju National University, Jeju, Korea

Streptococcal polyserositis is reported in seven juvenile cultured flatfish (*Paralichthys olivaceus*) 10 to 12 cm in length. The flatfish showed erratic swimming, exophthalmia, abdominal swelling, and rectal hernia. Grossly, the most significant feature was a large amount of turbid fluid in the abdominal cavity. Some fish had corneal opacity and loss of the scale. Histologically, diffuse severe fibrinoprulent peritonitis were appeared the serosa of the several abdominal organs. Moderate multifocal meningitis were presented in the brain. Other findings such as diffuse congestion, hemorrhage, necrosis in various organs and myositis were noted. Gram-positive cocci were often associated with the serositis. *Streptococcus* spp. was isolated from the liver and the ascites. As a fish disease, streptococcal infection cause serious mortality and great economic losses in the world-wide salt water or fresh water aquaculture. Development of diagnostic kits or vaccine using the isolates, and the preventive measures for fish streptococcosis are of great interest in the future.

Corresponding author : Jae-Hoon Kim (064-754-3387 , E-mail: kimjhoon@cheju.ac.kr)