**Fish Klebsiella**

 **Causative Agent:** *Klebsiella* spp. bacteria

 **Mode of Transmission:** Can grow in water or in distribution systems

biofilms. Also found in feces. Can spread through

 contaminated drinking water. Pick up through

 contact with skin or mucous membranes.

 **Incubation Period:** Human: 1-6 weeks (but not clearly understood)

 Animal: unknown

 **Clinical Signs Human:** Wound infections; gastroenteritis with vomiting and diarrhea. Septicemia may occur in immunosuppressed persons.

 **Clinical Signs Animal:** It is rare to see signs in fish.

**Control and Prevention:** Minimize growth of biofilms by treatment to optimize organic carbon removal, restriction of residence time of water in distribution systems, and maintenance of disinfectant residuals.

 **Comments:** Person to person transmission has been observed.

There are some drug resistant strains.

 Opportunistic pathogen.