Legionnaires disease

- 1. Legionnaires disease is a potential fatal form of pneumonia, resulting from inhalation of a fine water mist or particles left after the water has evaporated which is contaminated with legionella bacteria
- 2. The high risk group are male of age group over 50 years of age, smokers and those who are immunosuppressed.
- 3. An average 200 to 250 cases are reported in the UK each year,
- 4. Clinical symptoms are flue-like at the onset, with fever, chills, headache and muscle pain. Patient may develop a dry cough and most suffer difficulty with breathing. About one third develop diarrhoea and vomiting and half become confused and delirious. The bacteria may also cause a short feverish form of illness with out pneumonia, known as PONTIAC FEVER.
- 5. Fatality rate is about 12%. The diagnosis is done by cultures from sputum, bronchial washing and lung tissues. Measurement of antibodies in blood and specific antigens in the urine.
- 6. More than forty species of the legionella bacterium have been classified and associated with outbreaks world-wide. However, legionella pneumophila causes about 90% of the cases in the UK.
- 7. Legionella Bacteria are natural occurring organisms and are common in low numbers in water sources such as rivers, lakes, and reservoirs. They can survive under a wide variety of environment and multiply in the temperature range of 20°C to 45°C and thrive on algae, sludge, scale etc.
- 8. Two key control measures are 1) Prevention of proliferation of bacteria in the water. 2) Control of release and exposure to water droplets and aerosol.