The Microscopic Identification of the Pathogenic Microorganisms from Food

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Keywords: food, microscope, microorganisms, \textit{E. coli}, \textit{Salmonella}, \textit{Staphylococcus aureus}

SUMMARY

Many bacterial infections are caused by ingestion of contaminated food. Contamination of food often occurs at home, but can be easily prevented. Home hygiene is particularly important for children, elderly people, pregnant women and immunocompromised people.\textsuperscript{1}

Microorganisms are living organisms, most of them unicellular creatures that can be seen only with a microscope. Microorganisms are just that, microscopic in size. Even though they can only be viewed through a microscope, just a few microbes can multiply and wreak havoc on the human body.\textsuperscript{2}

\textit{Escherichia coli}, or \textit{E. coli} for short, is a very common bacterium. There are hundreds of different strains of \textit{E. coli}. Some are harmless while others cause serious illness. Non-pathogenic strains of \textit{E. coli} -- those that do not cause disease - are normal inhabitants of the intestinal tract in humans and animals.\textsuperscript{3}

\textit{Salmonella} spp. remains a major cause of morbidity and mortality worldwide. Outbreaks of enteric fever remain commonplace in developing countries, whereas nontyphoidal salmonellas are significant in developed countries, with the main presentation that of gastroenteritis.\textsuperscript{4}

\textit{Staphylococcus aureus} is considered the world’s third most important cause of foodborne illnesses.\textsuperscript{5}

After the analyzing of samples from all food categories the presence of \textit{Escherichia coli} was noticed in 40 samples, \textit{Staphylococcus} coagulase-positive was noticed in 10 samples and \textit{Salmonella} Group C and Group D was present in 20 samples.

REFERENCES