

Major Types of Bacterial Food Poisoning

Intoxication

- ingestion of a pre-formed toxin
- eg. *Staphylococcus aureus*, *Bacillus cereus*, *Clostridium botulinum*
- no person to person spread
- viable cells not required
- Short incubation period

Infection

- viable cells ingested and remain alive during consumption/digestion
- Invade the intestinal epithelium cells, but do not spread beyond
- eg. *Salmonella*, Enterohemorrhagic *E.coli* (EHEC), Enteropathogenic *E.coli* (EPEC)

Toxicoinfection

- viable bacteria ingested with food and colonize the intestinal lumen
- occurs primarily in the small intestine
- attach to specific receptors on epithelial surface via adhesins
- produce protein enterotoxins
- eg. *Vibrio cholera*, enterotoxigenic *E.coli*

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