

# In Syndrome

## Typhoid Fever

- Typhoid fever is an enteric fever characterized by systemic illness along with abdominal pain and fever in a "step-ladder" pattern.

### ***Etiology:***

- The main causative agent of typhoid fever is *Salmonella typhi* and *Salmonella paratyphi*, both are members of the Enterobacteriaceae family.
- *Salmonella* is transmitted by the fecal - oral route through contaminated water, undercooked foods, and fomites of infected patients and is more common in areas with overcrowding, social chaos and poor sanitation.
- It is only transmitted from an infected person to another person, as humans are its only host. Major sources of salmonella are poultry, eggs, and rarely turtles.

### ***Clinical Features:***

- Arthralgia is more common.
- Enterocolitis (more prominent in *Salmonella typhi*) after 12 hours to 48 hours of inoculation. Often, they initially present with nausea, vomiting that progresses to diffuse abdominal pain, bloating, anorexia and diarrhea (around 66%), which can vary from mild to severe diarrhea with or without blood, followed by a short asymptomatic phase that gives way to bacteremia and fever (about 96%) with flu-like symptoms.
- Classic typhoid fever starts about one week after the ingestion of the organism.
- Fever follows a "step-ladder" pattern (i.e., fever rises one day, falls the subsequent morning and continues to form peaks and troughs with insidious onset).
- Abdominal distress.
- Due to the hypertrophy of Payer patches, constipation may predominate over diarrhea in some cases.

### ***Diagnosis:***

- Clinical approach.
- Patients residing in areas with poor sanitation or impure drinking water or history of travel from endemic areas.



## *The Medical* **Bulletin**

- Blood culture
- Stool culture
- Bone marrow
- Widal test
- Skin snip test
- Polymerase chain reaction (PCR) Assay
- Enzyme-Linked Immunosorbent Assay (ELISA)

### ***Treatment:***

- Antibiotic therapy is the mainstay of treatment. Fluoroquinolones are the most effective drug of choice.
- Ciprofloxacin (500 mg orally twice daily for 5-7 days) is the most effective fluoroquinolone.
- Amoxicillin (750mg orally 4 times daily for about 2 weeks), trimethoprim- sulfamethoxazole (160 mg twice daily for 2 weeks) are all alternative treatments.

### ***Prognosis:***

- The overall current mortality rate less than 1%.
- In untreated patients, approximately 10% will relapse and 4% will become chronic carriers.

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