

Collaboration with Dr. John Robbins NIH-USA



One of the Largest cGMP manufacturers in the world



1.5 Billion doses of vaccines sold



# Typhoid Infection - Prevention is more Crucial than Treatment

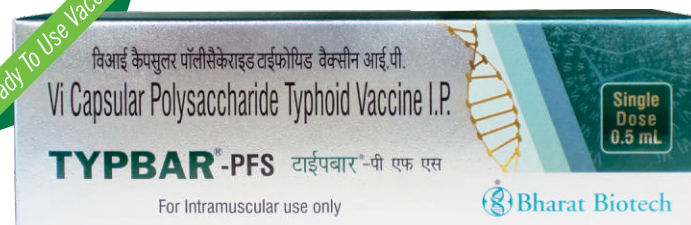
“Antibiotic resistant strains of *S. typhi* are increasing rapidly, including multi-drug resistant strains and those less sensitive to quinolones, such as ciprofloxacin. We are running out of treatment options, making vaccination against typhoid even more imperative\*”

# TYPBAR®

Vi Capsular Polysaccharide Typhoid Vaccine



Ready To Use Vaccine



Booster dose after three years



Genome Valley, Hyderabad - 500 078, A.P. India.  
www.bharatbiotech.com

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\* Ref : FONDATION MERIEUX - Annecy, France, Les Pensières, April 2-4, 2007

# TYPBAR®

## Vi Capsular Polysaccharide Typhoid Vaccine

**Typhoid fever continues to be a serious public health problem in many developing countries\***

**According to the World Health Organization (WHO), there are 16 million to 33 million cases & 500,000 to 600,000 deaths from typhoid fever annually.\*\***

\*\*Global mortality estimates for typhoid fever (216,000 - 600,000 or more) place typhoid in the range of several priority infectious diseases"  
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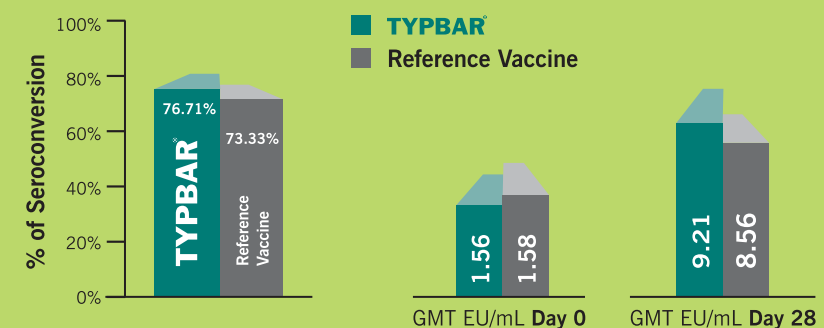
\*\* Ref: Initiative for Vaccine Research. Typhoid fever. (Accessed August 23, 2007, at [http://www.who.int/vaccine\\_research/diseases/diarrhoeal/en/index7.html](http://www.who.int/vaccine_research/diseases/diarrhoeal/en/index7.html).)

### Efficacy and Safety of TYPBAR

Double - Blind & Randomized Clinical Study confirms:

- Proven Safety & Immunogenicity
- Demonstrated Efficacy
- Proven track record with usage in more than 50 countries

Comparison of Seroconversion of TYPBAR and Reference Vaccine



BBIL Phase IV Clinical Trial Data on file

- No Animal Derived Growth Media, no BSE/TSE contaminants
- Least Reactogenic due to low endotoxin levels
- Also available as a Pre-Filled Syringe (ready to use injection)

### Complications accompanying Typhoid infection

Intestinal bleeding or perforation | Myocarditis | Pneumonia | Pancreatitis | Kidney or bladder infections | Osteomyelitis | Meningitis