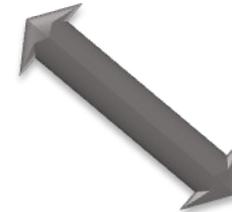
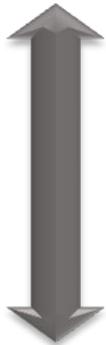
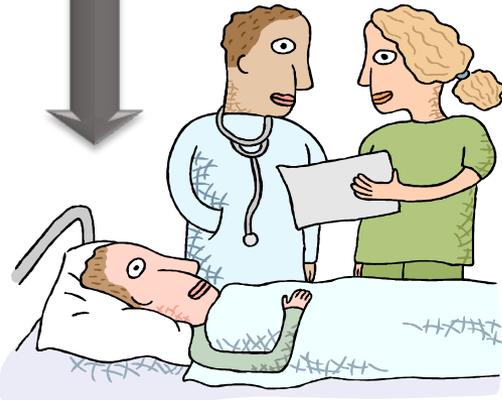


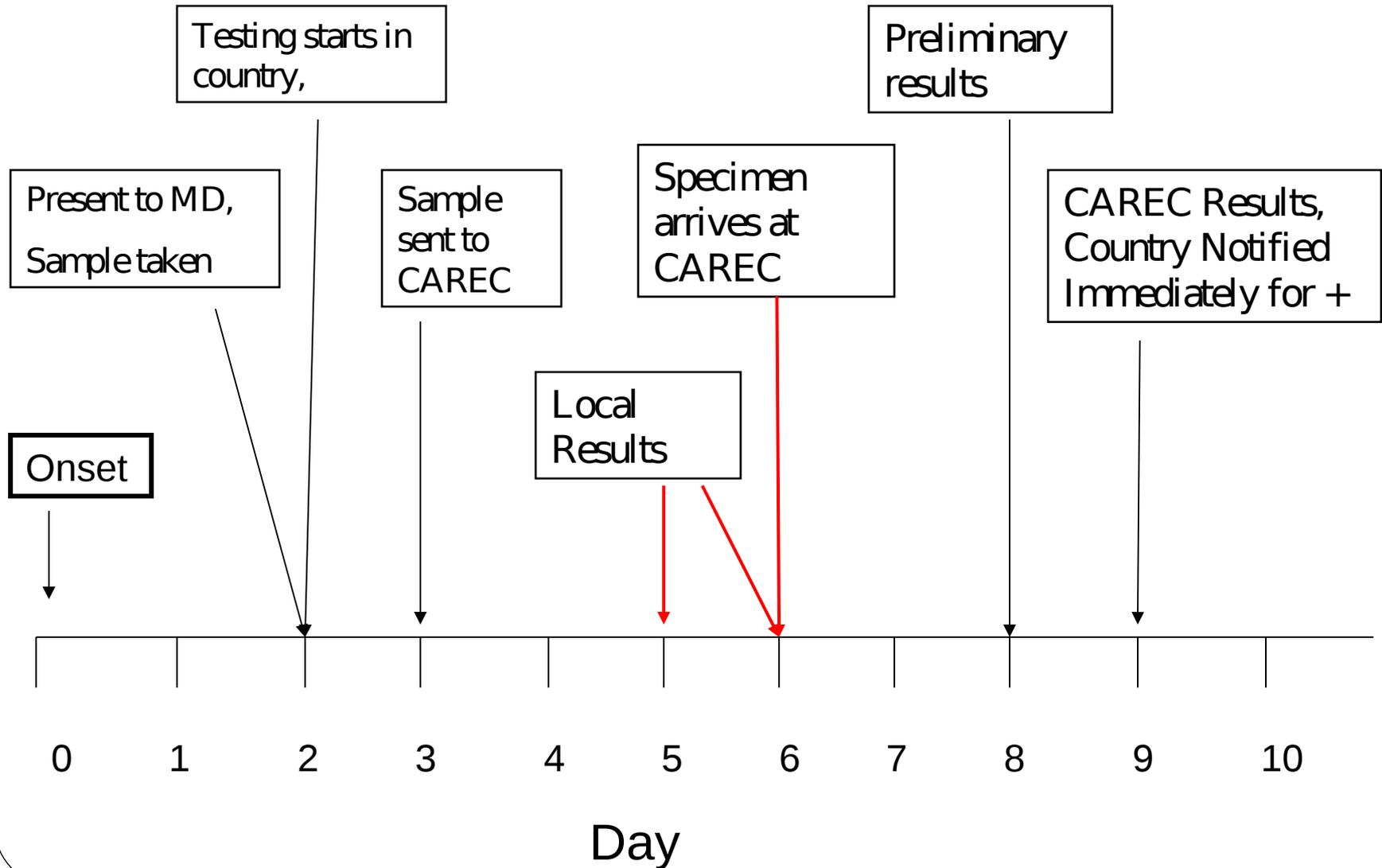
Laboratory Confirmation of Vibrio Cholera

Priya Bhagwandin
CAREC Laboratory

Share information timely – specific – reliable



Laboratory Testing Timeline



Divisions of V. Cholera

- Biotype (biovar)

different strains of the same bacterial species

distinguished by a group of phenotypic or genetic traits

- **Serogroup**

bacteria of the same species with different antigenic determinants on the cell surface

V. Cholera has more than 150 different serogroups, only two of which cause epidemic disease

Vibrio cholerae:-

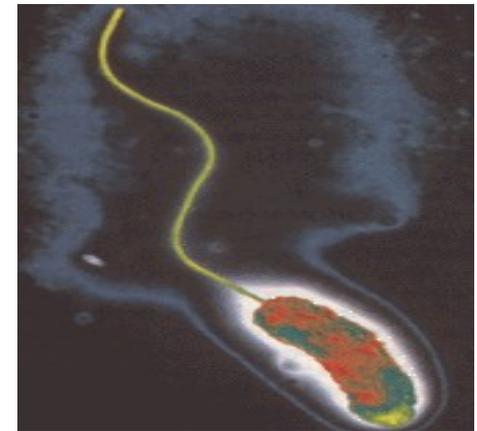
Gram negative bacteria

Highly motile

Halophilic

Salt and fresh water

Toxin production on outbreak strains

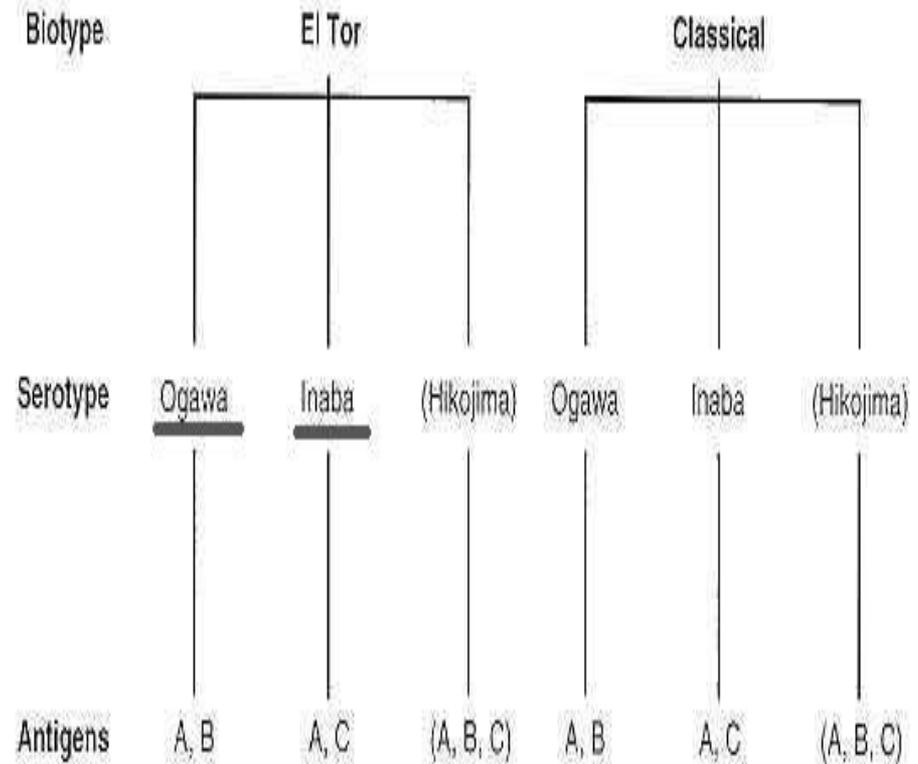


Antigenic detection

O1 antigen is divided into 3 types:

A, B, C

- **A antigen**
made of 3-deoxy-L-glycerotetronic acid
- **B, C antigen**
not been characterized



Laboratory Testing Services

- CAREC supports testing:-
 - Motility
 - Presumptive ID (*Vibrio*)
 - Identification (*Vibrio cholerae*)
 - Serotype (Ogawa, Inaba)

Laboratory Confirmation

- The reasons to culture confirm cases (for most settings, particularly the Caribbean) are....
 - To isolate organism for identification
 - To identify the serogroup of *Vibrio*
 - To monitor the antibiotic sensitivity patterns in order to better guide treatment

Overall support - CAREC

- 16 samples tested to date(negative)
- Protocols for collection, storage and transport shared for sending isolates, stool and rectal swabs sent to CMCs
- Media and reagents disseminated to initiate testing in CMC countries
- Laboratory wet workshop conducted for CMC for the isolation and identification of *Vibrio cholerae*

Follow-up, where we are now...

- Post training activities initiated with CMCs for in country set-up
(media preparation, sample collection, storage, testing)
- Continued support as requested

Thanks