Campylobacteriosis Laboratory Testing

Lucy Frederick
Florida Department of Health Summer Intern
Leah Eisenstein, M.P.H.
Janet J. Hamilton, M.P.H.
Report date= Jan 1, 2011 to June 27, 2011

1,056 reported cases of campylobacteriosis associated with 1,120 attached laboratory results

203 total errors

18% error rate
Types & Frequencies of Errors

- “Test” ≠ “Result Description”: 126/203 ~ 62%
- “Test” ≠ “Dx Status”: 70/203 ~ 34%
- “Outbreak Status” ≠ “Sporadic”: 7/203 ~ 3%
  - Probable + No attached lab = “Outbreak Associated”
Test ≠ Result Description

“Test” should be “Antigen Detection”
Indication of Antigen Testing in Multiple Ways

- “Campy by EIA” Final
- “Positive by Campylobacter AG”
- “Detected by EIA”
- “Presence of Campylobacter Antigen”
- “Campylobacter Antigen Positive”
- “Campylobacter Antigen Detected”
- “Campylobacter Antigen in Stool”
- “Campylob.Ag”
EIA Antigen Lab Examples

Antigen=EIA

Example 1

Example 2

Example 3

Example 4
Culture Lab Examples

Culture = Isolation

Example 1

Result of Lab Test: CAMPYLOBACTER SP ISOLATED FROM STOOL CULTURE

Example 2

Suspected: 
Confirmed:

Example 3

STOOL CULTURE: Final
CAMPYLOBACTER SPECIES ISOLATED

STOOL CULTURE: Preliminary (changed)
NO SALMONELLA/SHIGELLA/CAMPYLOBACTER PLESIOMONAS

SHIGA TOXIN: Final
Toxin 1 not detected, Toxin 2 not
Improving “Dx Status”

- Laboratory tests received typically indicate “Antigen” or “Culture”

- Culture=Isolation
- Antigen=EIA
“Culture” corresponds with “Isolation of *Campylobacter* from any clinical specimen”
“Antigen” corresponds with “Positive EIA stool test for Campylobacter sp.”

Selection that should be made with a positive test by “Antigen Detection.”