Prevalence of *Campylobacter jejuni* in Diarrhea samples in Gorgan ,
East north of Iran

**Abstract**

**Background and Objectives:** Diarrhea is one of the most common diseases in the world. *Campylobacter jejuni* is one of the prevalent agents of bacterial diarrhea in most of developing countries. It is usually ignored in routine laboratory test in our country, because it has a difficult investigation method. This article aims to determine the prevalence of Campylobacter jejuni, in diarrhea samples in Gorgan City (East north of Iran) by PCR Method.

**Material and Methods:** This descriptive study was performed on 455 diarrheal samples during one year (2005-06).255 out of them were cultured on Preston media (Himedia co.) on 42°C. DNA Extracted by phenol chlororophorm method was directly carried out on stool samples.16srDNA; *hipo* and *asp* primers for detection of *Campylobacter* genus, *C.jejuni* and *C.coli* species were used, respectively. In addition, universal primer of 16srDNA was used for control of PCR method.

**Results:** no sample was positive for *Campylobacter* in culture .only three samples were positive for *Campylobacter* genus and *C.jejuni* specific primer but none of them were positive for *C.coli* .99 samples were positive by universal primer of 16srDNA .

**Conclusion:** The results indicate that C.jejuni isn't a prevalent agent in diarrhea in our region.

**Key words:** *Campylobacter jejuni* -Gorgan- Diarrhea.