

Survey of Campylobacter Contamination in Poultry Meat and By-Products in Khuzestan Province

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Abstract : Campylobacter species are common bacterial pathogens associated with human gastroenteritis which are generally transmitted through foods of animal origin. This study was carried out to determine the prevalence of Campylobacter species in poultry meat and by products in the city of Dezful in Iran. Since April 2012 to July 2013, a total of 400 samples including meat (n = 100), liver (n = 100), gizzard (n = 100), and poultry heart (n = 100), were randomly collected from Dezful industrial poultry abattoir and were experimented in order to investigate presence of Campylobacter species. According to culture test, 251 samples out of 400 samples under study (69%) were contaminated with Campylobacter species. The highest prevalence of Campylobacter species was observed in poultry's liver (78.3%) and then in gizzard (75.8%), heart (65%) and meat (56.7%). The most common isolated Campylobacter were *C. jejuni* (90.9%) and the rest were *C. coli* (9.1%). There was a significant difference ($P < 0.05$) in the prevalence of Campylobacter species between the meat samples taken in the summer (86.7%). The results of this study indicate the importance of edible offal of poultries as the potential source of Campylobacter infections.

Keywords : Campylobacter jejuni, Campylobacter coli, poultry, meat, products

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