



Occurrence of *Listeria monocytogenes* in poultry, fish & their products as well as its public health hazard on women.

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Abstract:

The present study was undertaken to determine the incidence and distribution of *Listeria* spp. in poultry and some food samples and to investigate listeriosis in pregnant women and their newborns. Genotyping of *L. monocytogenes* isolates were determined to detect *inlA* gene as a target by using polymerase chain reaction. 400 samples comprising, poultry (100), chicken pâté (50), hen's egg (100), fish (100) and smoked herring (50) were collected from different poultry slaughter houses, shops, supermarkets and fish markets in Assiut province, Egypt. The study also, included 25 women suffered from intrauterine fetal death, 25 premature labored women and their 25 newborns admitted to Special Care Baby Unit (SCBU), Assiut University Hospital. The overall incidence of *Listeria* spp., *L. monocytogenes*, *L. innocua*, *L. ivanonii*, *L. welshimeri*, *L. seeligeri* and *L. grayi* was 81 (17.05%), 15 (3.15%), 40 (8.42%), 4 (0.84%), 11 (2.7%), 10 (2.1%) and 1 (0.21%), of the all examined samples respectively. The study revealed that 10%, 10% and 57% of poultry, hen's egg and fish samples were contaminated with *Listeria* spp., respectively and *Listeria* was not detected in chicken pâté, egg contents and smoked herring samples. *L. monocytogenes* was isolated from 2%, 4% and 7% of the examined poultry, eggs and fish samples, respectively. Incidence of human listeriosis was 5.3%, *L. monocytogenes* was isolated from 2 (2.6%) of both a woman suffered premature labor and her newborn while, *L. innocua* was isolated from 2 (2.6%) of women suffered intrauterine fetal death. Out of 15 *L. monocytogenes* isolates detected, 6 (40%) were found to harbor *inlA* gene. The existence of *Listeria* species and *L. monocytogenes* in the examined food samples warrants the need for appropriate control measures as this would pose a serious threat to human health.

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