

## Epidemiological-Anatomopathological-Immunohistochemical Profile of Gastric Cancer throughout Eastern Algeria

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**Abstract :** The stomach cancer or gastric cancer is an aggressive cancer with a significant geographic disparity. The decrease in frequency is attributed to refrigeration, which has several beneficial consequences, increased consumption of fresh fruits and vegetables, reduced consumption of salt, which was widely used as a food preservative, and less contamination of food by carcinogenic compounds. The infection with *Helicobacter pylori* is responsible for progressive inflammatory changes in the gastric mucosa usually evolving into stomach cancer in 80% of cases. Methodology: This epidemiological and analytical study concerns 65 patients (46 men and 19 women) with gastric adenocarcinomas with an average age of 56.5 years and a male predominance with a sex ratio of 2.4. Results and Discussion: In this series, the clinical symptoms are dominated by epigastralgia (72.31%), vomiting (27.69%), and slimming (24.62%). The FOGD (Oeso-Gastro Duodenal Fibroscopy) performed in the 65 patients revealed a predominance of the antro-pyloric localization in 19 cases (i.e., 29.23%) and an ulcerative budding appearance in 33 subjects (50.77%). Histologically, the moderately differentiated adenocarcinoma is found in 30.77% of patients, followed by well differentiated adenocarcinoma with 26.15% of patients. The immunohistochemical study revealed a positive labeling of half of the T cells by anti-CD3 AC, and a positive labeling of anti-CD20 AC in a diffuse and intense manner, with the presence of CD20-positive lymphoepithelial lesions compatible with CD20 a low grade MALT non-Hodgkin's lymphoma. Conclusion: This framework of analysis revealed some risk factors for gastric cancer, such as food, hygiene, *Helicobacter pylori* infection, smoking and family history.

**Keywords :** cancer, *Helicobacter pylori*, immunohistochemistry, stomach

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