Assessment of Gastritis and Gastric Cancer Risk in the Chilean Population Using the OLGA System

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Riquelme I.

Riffo-Campos A.L.

Rueda C.

Ferreccio C.

Villaseca M.

Brebi P.

Muñoz S.

Araya J.C.

Gastric cancer (GC) is the first cancer-related cause of death in Chile; however, no plan for GC early detection has been implemented in this country. The OLGA system characterizes gastritis from stages 0 to IV according to the risk of developing GC based on H. pylori infection, atrophy, metaplasia and GC. In this study, the performance of the OLGA system was evaluated in 485 Chilean patients receiving routine endoscopy to improve the detection of early GC or preneoplastic lesions. The results showed that OLGA scores, atrophy, metaplasia and GC increased significantly with age (p < 0.001). Conversely, H. pylori infection was higher in younger groups (p < 0.05). All gastric lesions were more frequent in men than women. The majority of patients with atrophy also had metaplasia (99%, p < 0.0001). Patients with H. pylori infection had more gastric atrophy and metaplasia than those without infection (p < 0.05). Of the 485 patients, 21 (4.3%) had GC, being 2.3 times more frequent among men than women and about 2/3 (14) were in OLGA stage ?2. In addition, 19 (90%) GC patients had atrophy and 18 (85%) had metaplasia (p < 0.001). In conclusion, the OLGA system facilitated the evaluation of GC precursor lesions particularly in patients with an OLGA score > 2 between 45 and 56 years old, because this group showed atrophy and intestinal metaplasia more frequently. Therefore, biennial endoscopic surveillance of patients with an OLGA

mortality over the next two decades. © 2018, Arányi Lajos Foundation. Chilean population Gastric atrophy Gastric cancer Helicobacter pylori infection Metaplasia The OLGA system adolescent adult age aged Article cancer diagnosis cancer patient cancer risk cancer staging Chilean cohort analysis controlled study cross-sectional study descriptive research disease severity early cancer endoscopy female

>2 can be an important health policy in Chile for diagnosing GC in its early stages and reducing

gastritis
Helicobacter infection
histopathology
human
human cell
human tissue
major clinical study
male
metaplasia
middle aged
nonhuman
OLGA system
precancer
risk assessment
scoring system
sex difference
stomach atrophy
stomach cancer
young adult
complication
early cancer diagnosis
follow up
gastritis
Helicobacter infection
Helicobacter pylori
isolation and purification

metaplasia
pathology
precancer
procedures
prognosis
risk factor
severity of illness index
stomach tumor
very elderly
virology
Adolescent
Adult
Aged
Aged, 80 and over
Cross-Sectional Studies
Early Detection of Cancer
Female
Follow-Up Studies
Gastritis
Helicobacter Infections
Helicobacter pylori
Humans
Male
Metaplasia
Middle Aged
Precancerous Conditions

Risk Factors
Severity of Illi

Prognosis

Severity of Illness Index

Stomach Neoplasms

Young Adult