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# Artículo 4

**Quantification of Hepatitis B Surface Antigen, Clinical Implications in Chronic Infected Patients**

Cuantificación del antígeno de superficie de la hepatitis B, implicaciones clínicas en pacientes con infección crónica

**ABSTRACT**

**Introduction:** Determining serum values of hepatitis B virus surface antigen (HBsAg) is useful for the care of chronic infected patients.

Objective: To quantify HBsAg concentrations in Cuban patients with hepatitis B virus chronic (HBV) infection.

Materials and Methods: A cross-sectional study was conducted with 121 patients treated at the Institute of Gastroenterology, who had at least a history of chronic 6-month HBV infection, from January 2016 to January 2018. Prior informed consent, a data collection was performed using a sheet prepared to that purpose. This form recorded the clinical characteristics, the received antiviral therapy and the results of the biochemical and virological studies. A descriptive analysis of the data was performed and Pearson's correlation between hepatitis B surface antigen concentration and viral load was determined.

Results: 57.8% of the patients were male with a median age of 45 years. 67% were in the inactive phase of the disease. HBsAg concentrations were mostly (77.6%) high or very high; 82.7% had detectable viral load. The correlation between viral load and the quantification of HBsAg was positive and evident for immunotolerants and immunoreactive agents. No differences were observed in the medians of HBsAg concentration according to the type of antiviral treatment.

Conclusions: HBsAg concentrations in chronic HBV infected patients are high or very high, although most are inactive carriers. There is a positive correlation between HBsAg concentrations and HBV-DNA levels.

Keywords: hepatitis B; hepatitis B surface antigen; chronic hepatitis B

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**Artículo 5**

Peutz-Jeghers Syndrome, Case Experience at the Institute of Gastroenterology

**Síndrome de Peutz-Jeghers, experiencia de casos en el Instituto de Gastroenterología**

## ABSTRACT

**Introduction**: Peutz-Jeghers syndrome is a disease of hereditary cause. It is characterized by the development of gastrointestinal polyps and peculiar mucocutaneous hyperpigmentation.

**Objective**: To describe some clinical and epidemiological characteristics of patients with Peutz-Jeghers syndrome treated at the Gastroenterology Institute of Cuba.

**Materials and methods**: A descriptive observational case series study was conducted, with seven children and two adults with a diagnosis of Peutz-Jeghers syndrome and who were treated at the Institute of Gastroenterology from January 2000 to June 2019. These outpatients and hospitalized patients information was obtained from the data contained in the clinical records, as well as from the automated system for the registration of procedures in ProGastro Gastroenterology. The data was processed manually and summarized in absolute frequencies. The results are presented in tables, graphs and figures.

**Results**: Nine patients with Peutz-Jeghers syndrome were found. The highest number of patients was diagnosed before the age of 10 during family research or due to complications of the disease. The most frequent locations of polyps were the duodenum and colon. One patient died from cervical cancer.

**Conclusions**: It is a rare disease, but with a high degree of mortality. Patients who were diagnosed at earlier ages developed more complications than those who were identified through family inquiries.

**Keywords:** polyposis, Peutz-Jeghers syndrome, invagination, melanic or hyperpigmented spots**.**

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**Artículo 6**

**Gastrointestinal Stromal Tumor of the Rectum, Rare Cause of Rectal Bleeding  
Tumor del estroma gastrointestinal de recto, causa infrecuente de sangrado rectal**

## ABSTRACT

Gastrointestinal stromal tumors (GIST) are uncommon neoplasms, particularly their location in the rectum. The objective of this paper is to describe the diagnosis of a 53-year-old patient with low digestive bleeding, who was diagnosed with a gastrointestinal stromal tumor of the rectum after imaging, endoscopic and histopathological examinations.

Keywords: gastrointestinal stromal tumor, rectum, colonoscopy, echoendoscopy.

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Traducción: [Gretchen González Nieto](mailto:gretchen@infomed.sld.cu)  
Grupo de Traducciones  
CNICM-Infomed  
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