“There will be epidemics...”

**EBOLA: WORLD GOES ON RED ALERT**

- Spread of Spanish Flu Menaces War Production 1918
- Ebola Out of Control 2014
- Six Dead, 17 Sick From Drug-Resistant TB 2007

**Cholera Epidemic in Yemen Now Affects One Million People** 2017

**Brace for Dengue** 2017

**Dengue Everywhere** 2017

**African Countries to Plot New Malaria Vaccine** 2017

**Zika Spreads Worldwide** 2016

**Island Declares State of Emergency Over Zika Virus, Dengue Fever Outbreak** 2016

**An American Plague: Yellow Fever Epidemic of 1793** 1878

**Quarantine Wanted as Yellow Fever Spreads** 1878

**ASTMH Annual Meeting Canceled Due to Spanish Flu Outbreak** 1918

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GUT MICROBIOTA IN HOSPITALIZED CHILDREN UNDER FIVE YEARS WITH ACUTE INFECTIOUS GASTROENTERITIS FROM A TEACHING HOSPITAL IN CAJAMARCA, PERU 2011-2012

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Gut microbiota (GM) is a community of microorganisms from in the human gastrointestinal tract (HGIT) which plays a key role maintaining the host health. However, this microbial structure can be disrupted under an inflammatory process such as viral or bacterial infections. The main objective was to describe the gut microbiota profiles in hospitalized children under 5 years with the diagnosis of Acute Infectious Gastroenteritis (AIG). A retrospective, descriptive cross-sectional study was conducted using the Hospital Regional de Cajamarca physicians database between 2011 and 2012. A total of 117 samples from patients under 5 years old with AIG were analyzed for detection of common viral and bacterial etiologies and 13 gut microbiota agents via Polymerase Chain Reaction. Infants younger than 12 months-old were the most predominant age group in 36.7% cases. The most commonly detected microbiota bacteria were: Firmicutes (n=74 cases), Bacteroidetes (n=73 cases), Lactobacillus (n=70 cases), Prevotella (n=67 cases) and Proteobacterium (n=63 cases). Patients with exclusive breastfeeding or mixed feeding registered a higher number of gut microbiota bacteria, compared to those who received formula or were not breastfed. In conclusion, coinfections, type of lactations, nutritional status and the different etiologies altered the gut microbiota profiles in children under 5 years old.