

Incidence and Type Distribution of Astrovirus Among Spanish Children



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1.To identify the importance of Astrovirus as a cause of gastroenteritis among Spanish children.

2. To determine the Astrovirus prevalent genotypes.







Children under 4 years old who visited an emergency room with the diagnosis of Gastroenteritis.





Amplification of the RNA: RT-PCR

Viral RNA extracted by silica methods

Primer pair used: Mon340/Mon348 (Belliot et al. 1997 Arch.Virol.)





* 14% is an estimate based on subsample of 238 specimens.







1. Astrovirus represents the second most common viral cause of acute gastroenteritis among Spanish children.







2-The Astrovirus prevalence could be underestimated if only ELISA are used for detection.

3- HAstV-1 was the most predominant type followed by HAstV-2 throughout the study period.





When testing for Astrovirus by ELISA, specimens that yield ambiguous or negative results could be retested by a more sensitive technique like RT-PCR



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Rate of Hospitalization

Population covered by Hospital : 15.000 children under four years old hospitalized children : 53

Hospitalization incidence might be 3.5/1.000 children It represents 6.6 of the admissions for all diagnosed children of this age group





14 % represents a minimun incidence

