

The current study was performed on two hundred fifty children infected with acute watery diarrhea admitted to Babylon maternity and children hospital during 10 months from June 2012 to February 2013 .The age ranged between 2 months - 5 years .The virus was determined in stool and serum using the CerTest Adenovirus Card Test (stepcoloured chromatographic immunoassay) for the qualitative detection of Adenovirus in stool samples and ELISA for the qualitative determination IgM antibodies against adenovirus in human serum. The viruses were determined in 109 (43.6%) of patients. Adenovirus were detected in 41(16.4%) and Rotavirus in 68(27.2%).The adenovirus associated with gastroenteritis was mostly seen between the age (2-24) months. The positive cases dominated in rural patients which depending on the mixed feeding while the breast feeding infants less infected. The frequency of adenovirus in girls and boys was similar. The study revealed that the infections with these viruses were spread predominantly from person to person with a duration from 3-10 days and an illness lasting approximately one week. Diarrhea is more prominent than vomiting or fever, and respiratory symptoms are often present.