

Genotyping of rotavirus in neonatal calves with acute gastroenteritis in Iraq

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Globally, rotavirus is the common major etiologic agents of diarrhea in infant, young children and neonatal calves. It is very important to early diagnose the disease for effective treatment. The objective of this study was to determine the prevalence, molecular characteristics, and the effect of rotavirus strains for severe gastroenteritis in neonatal calves in five Iraqi governorates (Al-Qadissiya, Babel, Kerbala, Missan, Wassit). A total of 125-stool specimens were examined, it have been collected from calves form the period between November 2015 to March 2016. The ages were ranging from 6 to 60 weeks. The specimens were examined using chromatographic immunoassay, enzyme-linked immunosorbent assay (ELISA) and Polymerase-chain reaction (PCR). Our results gave us 67 (53.6%) positive by chromatographic immunoassay, 45 (36%) positive by ELISA and 32 (25.6%) positive by PCR. Genotyping were analyzed by multiplex PCR. Genotype

combination G1P[8] was (30%) followed by G1P[4] (20%), G3P[4] (20%), G2P[4] (10%), G2P[8] (10%) and G9P[4] (10%). Such information will not only aid in seeking advocacy for introducing rotavirus vaccine in national immunization program in Iraq but will also help in the evaluation of the efficacy of these vaccines in relation to the rotavirus genotyping circulation.

Speaker Biography

Atheer Abdulrazzaq Abdulazeez Aldoori is a microbiologist working in department of microbiology, Veterinary medical college, University of Baghdad. He got his BSc in science college, University of Baghdad in 1984 and worked in Al Mansur factory as a microbiologist. His got his MSc Bacteriology in Veterinary College and worked as head of department of bacteriology at Al Razee center for research and diagnostic kits in Ministry of Industry and Materials. Atheer did his PhD in virology from University of Almustanseria, department of biology and started publishing his works in journals.

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