32nd World Pediatrics Conference

December 04-05, 2019 | Barcelona, Spain

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Background Type 1 diabetes is an autoimmune multifactorial disease caused by a complex interaction of genetic a environmental factors. Several studies have shown that viral infections cause the onset of type 1 diabetes by indu immune responses that can damage - cells.

Aim: is study aims to examine the interaction between type 1 diabetes and childhood viral infections in children of Tlemcen in northwest Algeria.

Patients and Methods is is a case-control study of a population of 338 children under the age of 15 years, including 137 diabetic children and 201 controls children, living in Tlemcen in Western Algeria. e data were collected using questionnaires submitted by a physician to the parents of the cases and controls, from February to May 2018. e da were analyzed by a logistic regression processed by Minitab.16 so ware.

Results e total frequency of exposure to childhood infections (varicella, measles, rubella, mumps or tonsillitis) in early childhood is higher in diabetic children (81.75%) than in controls (66.66%), p=0.003. e risk of type 1 diabetes for children exposed to a single infection was only statistically signi cantly for rubella (p=0.016), odds ratio: con dence interval (CI) (OR: 3.73, 95% CI, 1.28-10.88). However, if two or more infections was contracted during the years before onset of diabetes, the risk increases signi cantly (p=0.000), (OR: 3.33, 95% CI, 1.92-5.78).

Conclusion: e high prevalence of infectious diseases among young children in Tlemcen's population may explain the development of type 1 diabetes in children in this region.