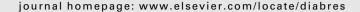


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# Letter to the Editor

# Seasonal variation in the diagnosis of type 1 diabetes

Keywords: Epidemiology Space-time clustering

#### Dear Editor

In response to the report of Samuelsson et al. [1] we like to add to the seasonal variation in the diagnosis of type 1 diabetes from our data between 1992 and 2001 of the Dutch Pediatric Surveillance Unit (1284 newly diagnosed children of 0-14 years old in this period). The seasonality of first insulin injection and date of birth was studied as well as space-time clustering by Mantel's statistic (Z) for first insulin injection and date of birth. We also found the number of first insulin injections to be highest during winter months, and lowest during summer time ( $\chi^2 = 52.71$ , p < 0.001). Date of birth of newly diagnosed patients vary, in comparison with the distribution of all births, differences are not significant. Mantel's statistic (Z) for spacetime clustering shows significant clustering at first insulin injection, and clustering at birth (respectively, p = 0.01 and <0.01). Our results are consistent with the viral hypothesis. Thus it could be that contact with infectious agents at birth as well as later in childhood, especially during the winter season, occurs before the onset of the manifestation of the disease [2].

## Conflict of interest

The authors state that they have no conflict of interest.

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