## Type 2 diabetes and Helicobacter pylori infection: Starting point for the reality?

Sir,

We have read with great interest article about association of Helicobacter pylori. Infection with type 2 diabetes Bajaj et al.[1] In this cross-sectional study, the prevalence rate of H. pylori infection in type 2 diabetes, and its relation with hemoglobin A1c levels in 80 Indian patients with type 2 diabetes. Undoubtedly, H. pylori plays a critical role in the development of various gastroduodenal disorders; while, only a small fraction of infected individuals develop to severe diseases. After glorious discovery of this bacterium by Marshall and Warren in 1983, a large variety of diseases had been listed to be affected by H. pylori infection. [2] Type 2 diabetes is the most common type of diabetes worldwide, and a lot of adults (older than 40) are suffering in developed and developing countries.[3] Insulin resistance disclosed by human cells can be the major cause of type 2 diabetes. However, genetic susceptibility, diet and lack of enough exercise can be in the rest of list for risk factors. Despite the small sample size of the study (n = 80), any new fact about H. pylori as one of the most complicated infection calls for actual biologic explanations. In this study, authors did not provide any explanation about their findings. As such, small sample size can be the likely, reason for this conclusion. Moreover, it can be speculated that association of type 2 diabetes and H. pylori infection is coincidental, though it may be valuable, if authors retest their findings among the different populations, and then draw a direct conclusion. Interestingly, in India due to the hygiene conditions, people will get infected by the bacterium when they are <10, and that is why such association with particular diseases (type 2 diabetes; which is relevant for one older than 45) seems a bit away of current knowledge. Therefore, more solid findings from various groups are warranted before, we take a step forward to address *H. pylori* as risk factor for type 2 diabetes.

## Amin Talebi Bezmin Abadi

Department of Bacteriology, Faculty of Medical Sciences, Tarbiat Modares University, Tehran, Iran

Corresponding Author: Dr. Amin Talebi Bezmin Abadi, Department of Bacteriology, Faculty of Medical Sciences, Tarbiat Modares University, Po. Box: 14115-111, Tehran, Iran. E-mail: amin.talebi@modaes.ac.ir

## REFERENCES

- Bajaj S, Rekwal L, Misra SP, Misra V, Yadav RK, Srivastava A. Association of *Helicobacter pylori* infection with type 2 diabetes. Indian J Endocrinol Metab 2014;18:694-9.
- Talebi Bezmin Abadi A. Therapy of Helicobacter pylori: Present medley and future prospective. Biomed Res Int 2014;2014:124607.
- He C, Yang Z, Lu NH. Helicobacter pylori infection and diabetes: Is it a myth or fact? World J Gastroenterol 2014;20:4607-17.

Access this article online	
Quick Response Code:	
	Website: www.ijem.in
	<b>DOI:</b> 10.4103/2230-8210.149330