



# Turkish Journal of Endocrinology and Metabolism

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## EDITORIAL

**Dear esteemed readers of TurkJEM Family,**

Scientists have long warned climate changes possible impact on public health in a devastating way via spread of infectious diseases and food shortages. Leiden University scientists calculated that a 1 degree (in Celsius) increase in outdoor temperature causes 100.000 new diabetes incidences per year in USA. The causation dimension is still under discussion. In a world where 415 million adults suffer from diabetes referenced from 2015 statistics; expectations are that the prevalence of diabetes will rise by almost 55% by 2040. Recent research by Lisanne L.Blauw and her research team came with a more striking hypothesis that outdoor temperature and glycosylated hemoglobin shows a positive association showing systemic glucose homeostasis influenced by environmental temperatures. Future research by geographical location on outdoor temperature and glucose metabolism need further detailed analysis.

Harmanjot Kaur and Roopjot Kochar also focusing on the environmental temperature effects on diabetes; the seasonal variation in HbA1c levels has been observed among type 2 diabetic patients that are likely to be caused by an increased dietary calorie intake and decreased physical activity during the cold winter months. Climate change also threatens agricultural output and food security. This observation could lead to food shortage sufferings which may influence the diet of individuals where income levels are not so high. This is extremely important for the malnutrition of mother during pregnancy months.

To sum up the message is clear, past 25 years of inactivity have not been without any cost. As Lancet proposes now is the time to build on the small achievements made by some countries and perpetuate engagement to reach political consensus in the race against anthropogenic climate change.

In our fall issue we have the following paper contributions: "Frequency Profile and Clinical Correlations of TSH Receptor Antibodies in Euthyroid and Hypothyroid Patients Having Autoimmune Thyroiditis", "Effect of Gibberellic Acid on the Levels of Tumor Necrosis Factor- $\alpha$ , Interleukin-4 and Interleukin-10 in Rats", "Medication Adherence and Associated Factors Among Type II Diabetic Patients in East Azerbaijan, Iran", "Evaluation of the Frequency of Familial Hypercholesterolemia: A Single-Center Experience", "Cell-free DNA as a Clinical Indicator in Maternal Blood", "Growth Hormone Deficiency in the Transition Period", "Bilateral Atypical Femur Fracture in a Patient Under Bisphosphonate Treatment", "An Unusual Case of Ectopic Prolactinoma in the Clivus", "Evidence-Based Medicine or Patient-Directed Treatment?".

Wish you all a very healthy and pleasant late summer time.

**With my best regards,**

**Nilgün Başkal MD**  
Editor-in-Chief