

On Serum Crosslinked N-telopeptides of Type I Collagen (NTx) Levels and Total Antioxidant Capacity in Type 2 Diabetes Mellitus

[Tip 2 Diabetes Mellitus Hastalarında Serum Tip I Kollajenin Çapraz Bağlı N-telopeptidleri (NTx) Düzeyleri ile Total Antioksidan Kapasitenin Araştırılması hakkında]

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Editor, I read the recent report on diabetes mellitus with a great interest [1]. Kurbanet al. concluded that “patients with type 2 diabetes mellitus have a significantly reduced total antioxidant capacity levels and there is a risk of bone resorption in these patients which can be estimated by measuring serum cross-linked N-telopeptides of type I collagen levels [1].” There are some problems in this work to be discussed. First, this work used a non paired matched case-control design. This might reflect the bias in case selection. Indeed, the number of the subjects in this work is very low and might not be acceptable for generalization of the result. Second, there are many confounding factor that affect the level of NTx, TAC and HbA1C in this work (such as bone disease, hemoglobin disorder, eating behavior and etc.) These should be further discussed.

References

- [1]. Kurban S, Mehmetoglu I, Gönen S, Akbulut S. (2010) Investigation of Serum Crosslinked N-telopeptides of Type I Collagen (NTx) Levels and Total Antioxidant Capacity in Patients with Type 2 Diabetes Mellitus. Turk J Biochem 35 (2) ; 145–150.