

OXIDATIVE STRESS MARKERS IN ADULTS FROM THE MEXICO CITY METROPOLITAN AREA.

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MATERIAL AND METHODS.

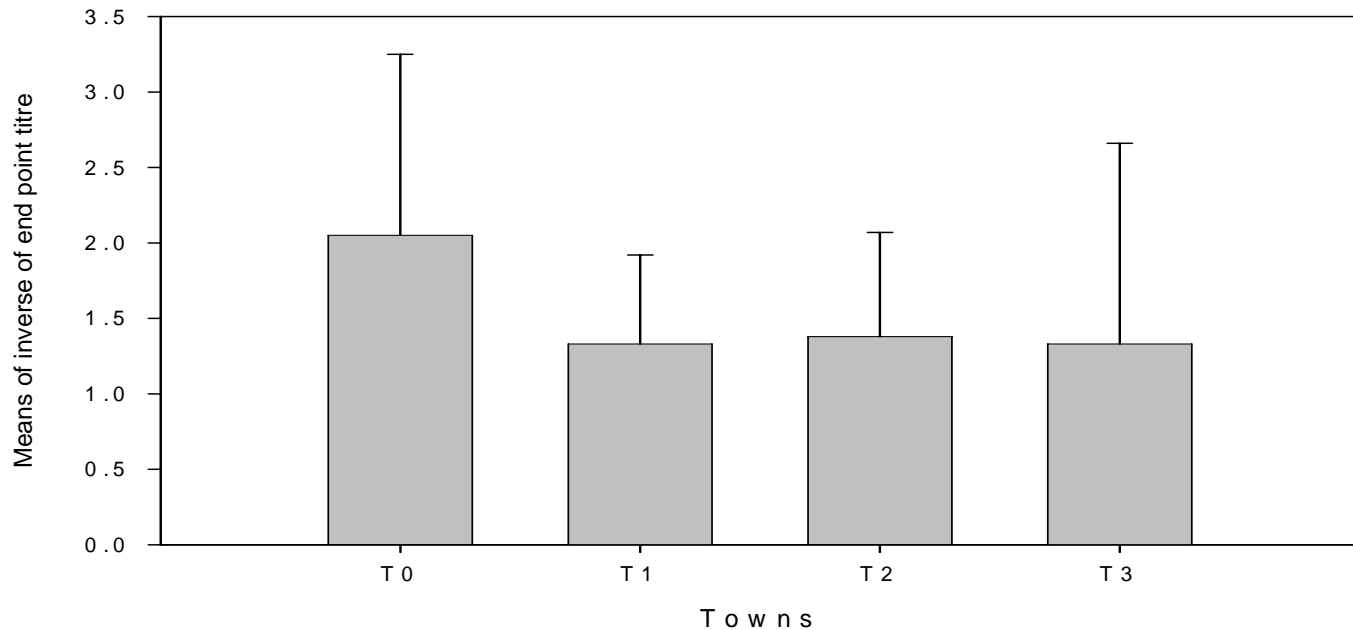
- Study was carried out during the spring season.
- Places of study: T0 Distrito Federal, T1 Tecamac Estado de México, T2 Tizayuca Hidalgo and T3 Tlaxcala Tlaxcala.
- We evaluated 130 adult subjects distributed of the following way: 41 correspond T0, 54 of the T1, 26 belong T2 and 9 correspond to T3.

MATERIAL AND METHODS.

- C-reactive protein, using a latex particle-agglutination assay.
- Ceruloplasmin values were analyzed by radial immunodiffusion.
- Nitrite determination was measurement by the Griess reaction.
- Glutathione peroxidase activity (GPX). Ransel kit, Randox Company Antrim, UK.
- Superoxid-dismutase activity. Ransod kit, Randox Company Antrim, UK.

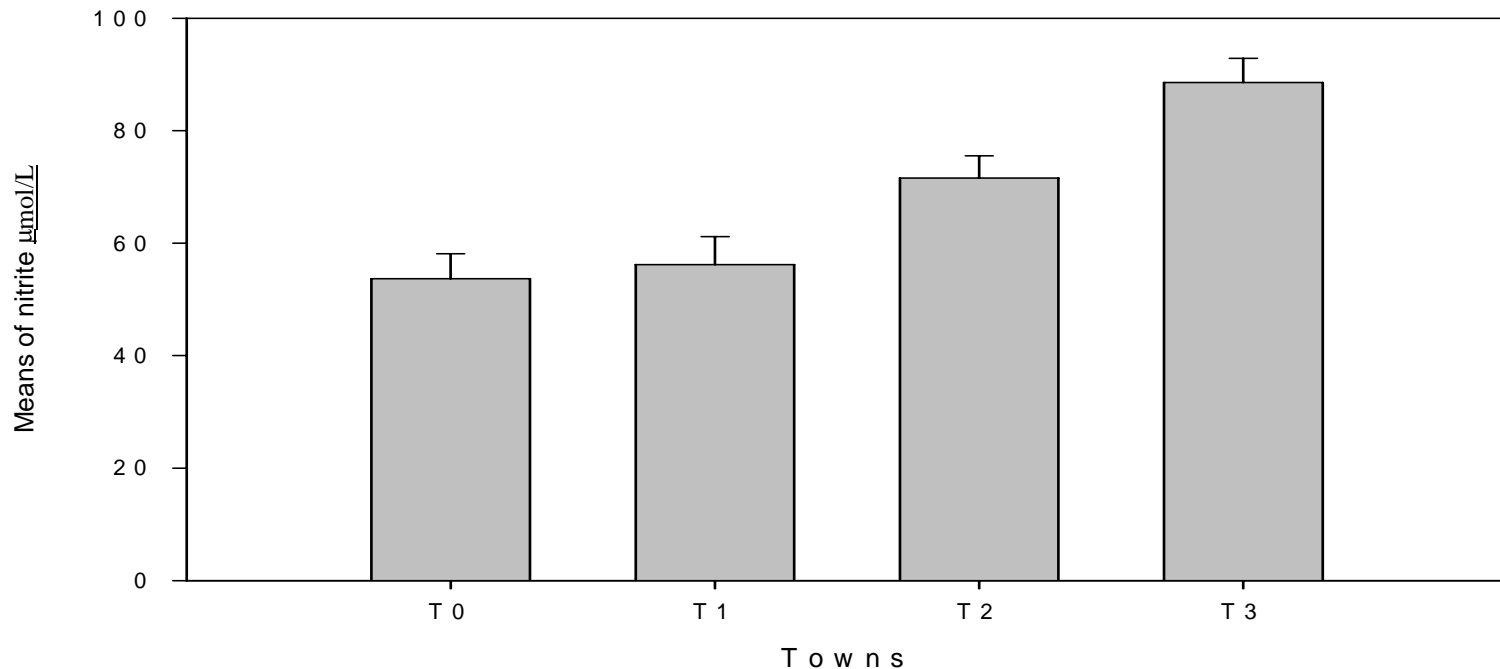
RESULTS.

- Figure 1. C-Reactive Protein. T0 Iztapalapa Distrito Federal, T1 Tecamac Estado de Mexico, T2 Tizayuca Hidalgo, and T3 Tlaxcala Tlaxcala. ANOVA. P=0.927 N.S.



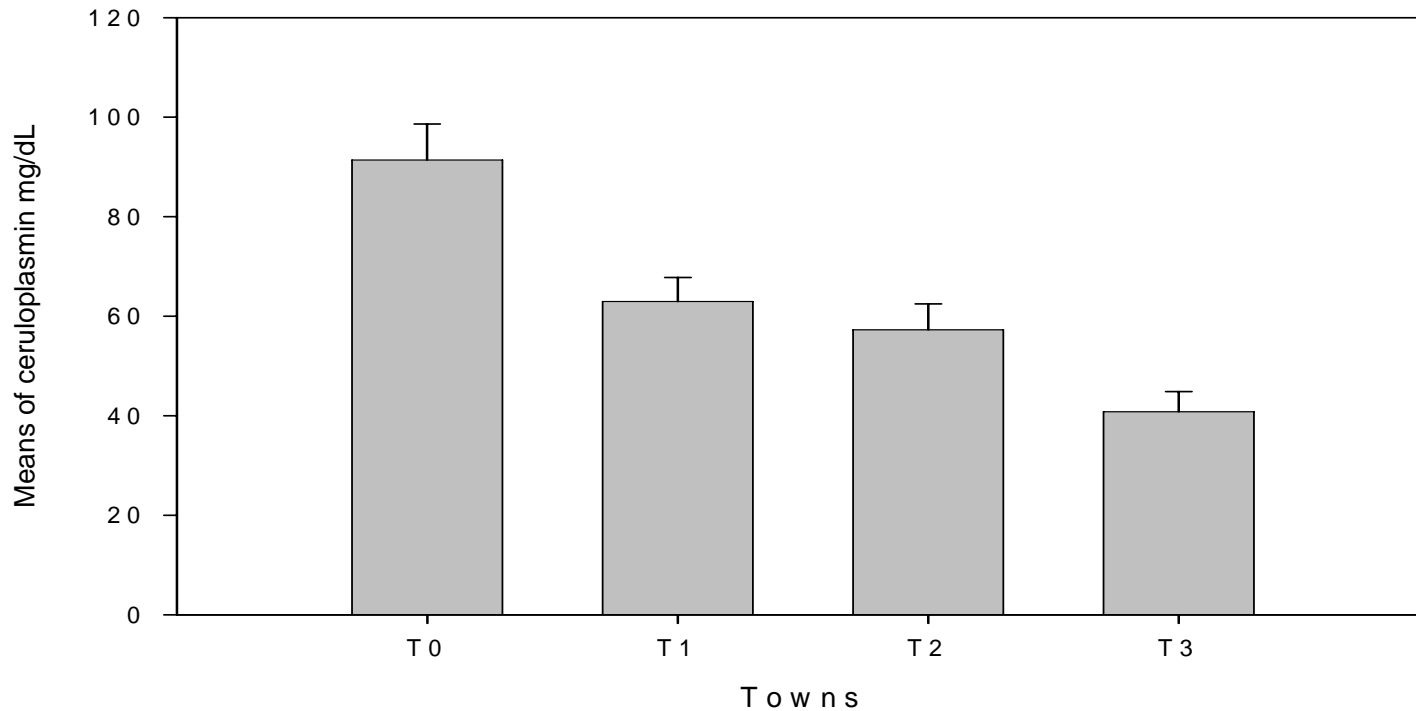
RESULTS.

- Figure 2. Nitrite levels. T0 Iztapalapa Distrito Federal, T1 Tecamac Estado de Mexico, T2 Tizayuca Hidalgo, and T3 Tlaxcala Tlaxcala. ANOVA.
- T3 vs. T0 $P=0.011$, and T3 vs T1 $P=0.017$. T3 vs. T2 $P=0.463$ N. S.



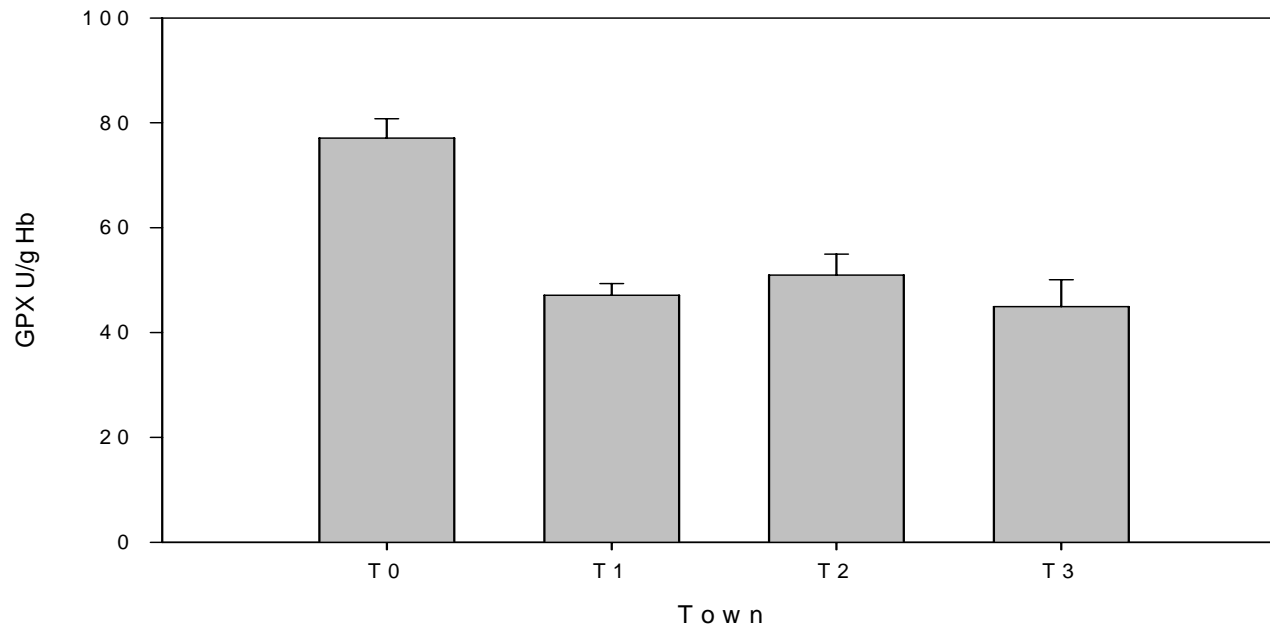
RESULTS.

- Figure 3. Ceruloplasmin Levels. T0 Iztapalapa Distrito Federal, T1 Tecamac Estado de Mexico, T2 Tizayuca Hidalgo, and T3 Tlaxcala Tlaxcala. ANOVA. T0 vs. T1, T2, and T3. $P=0.001$ S.



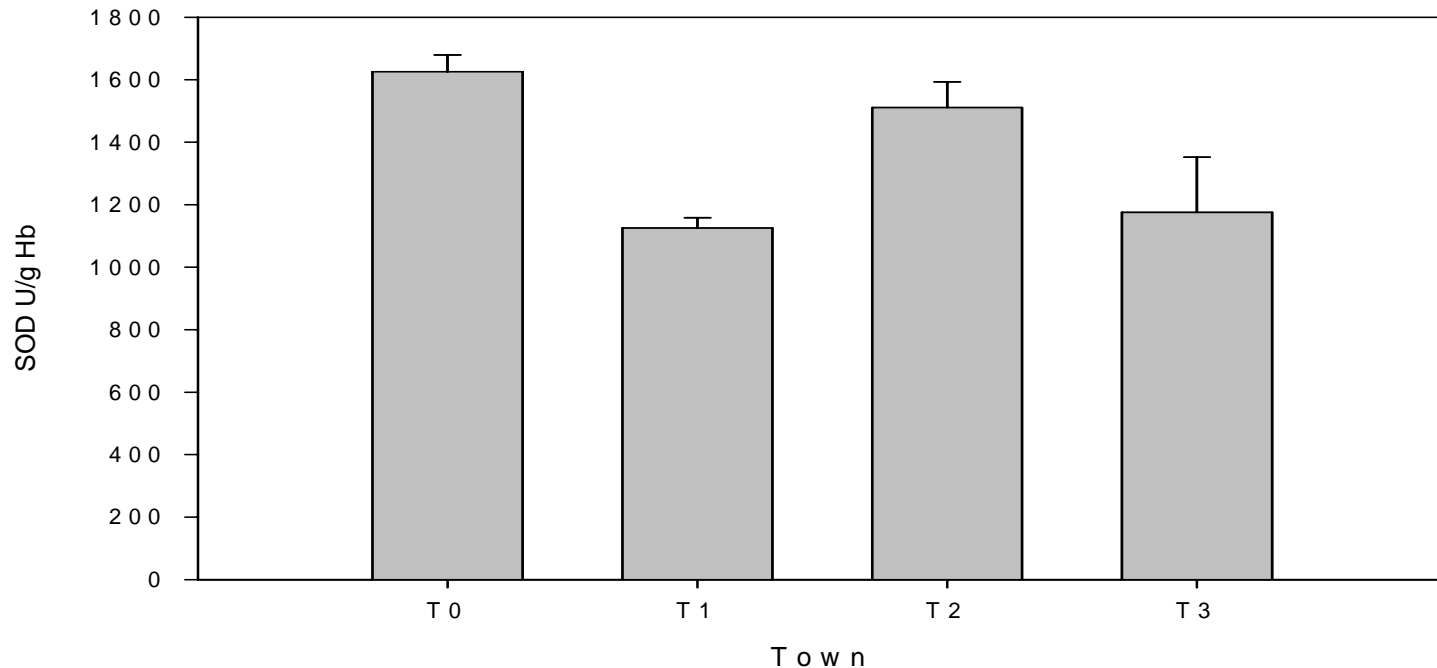
RESULTS.

- **Figure 4. Glutathione peroxidase U/g of hemoglobin. T0 Iztapalapa Distrito Federal, T1. Tecamac Estado de Mexico, T2. Tizayuca Hidalgo, and T3. Tlaxcala Tlaxcala. ANOVA. T0 vs. T1, T2, and T3. P=0.001 S.**



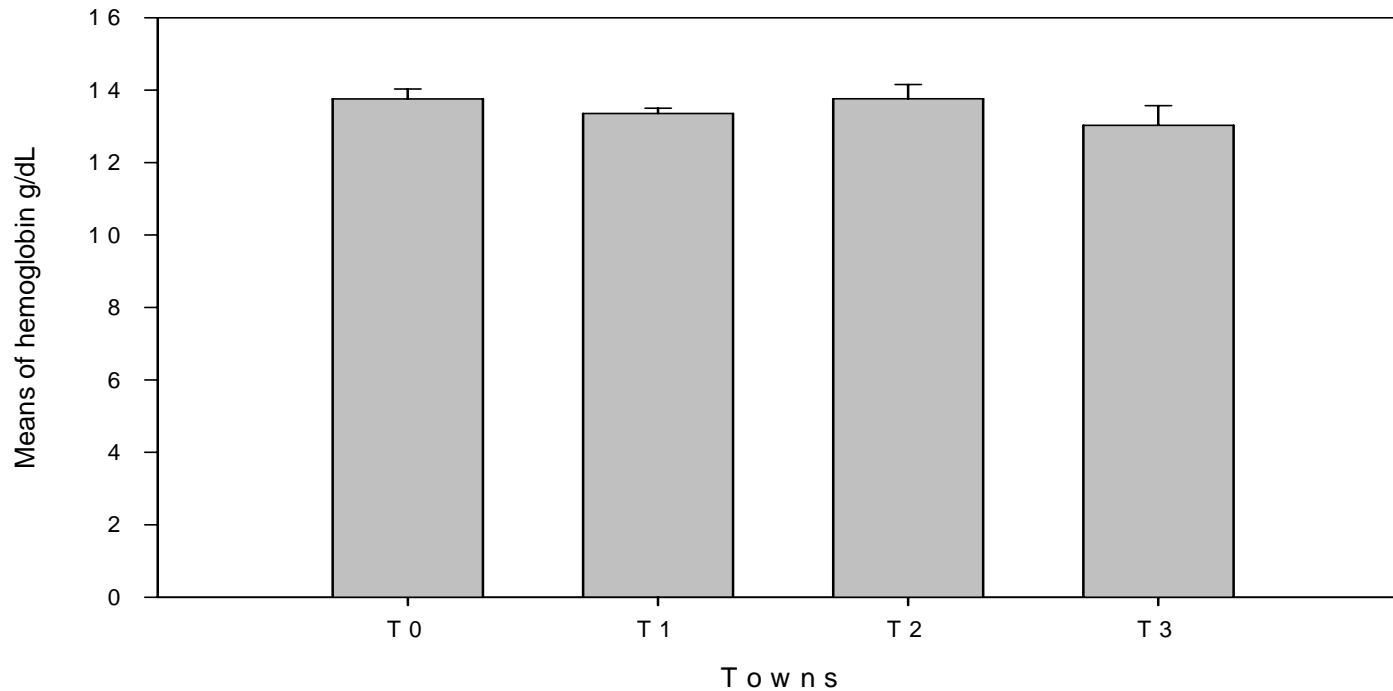
RESULTS.

- **Figure 5. Superoxid-Dismutase U/g of hemoglobin. T0 Iztapalapa Distrito Federal, T1. Tecamac Estado de Mexico, T2. Tizayuca Hidalgo, and T3. Tlaxcala Tlaxcala. ANOVA. T0 vs. T1 P=0.000, T0 vs T2 P= 0.539, and T0 Vs T3. P=0.003. T2 vs T1 P=0.000, T2 vs T3 P=0.058.**



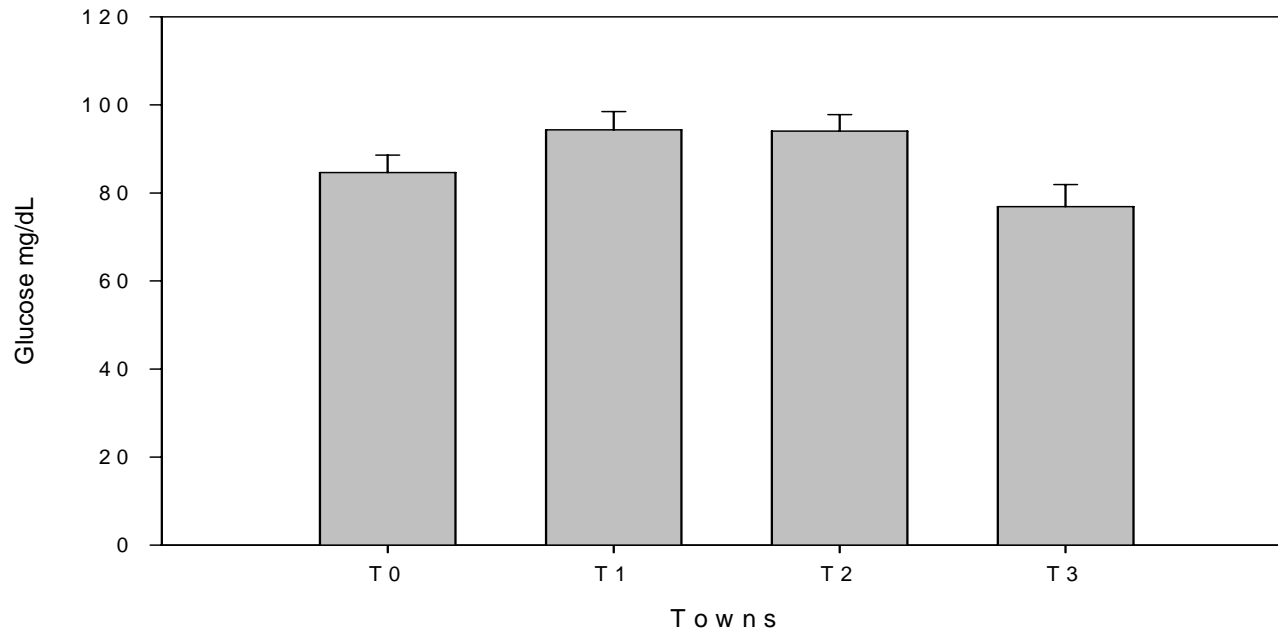
RESULTS.

- **Figure 6. Hemoglobin mg/dL. T0 Iztapalapa Distrito Federal, T1. Tecamac Estado de Mexico, T2. Tizayuca Hidalgo, and T3. Tlaxcala Tlaxcala. ANOVA.P=0.392 N.S.**



RESULTS

- **Figure 7. Glucose mg/dL. T0 Iztapalapa Distrito Federal, T1. Tecamac Estado de Mexico, and T3. Tlaxcala Tlaxcala. ANOVA. P=0.109 N.S.**



CONCLUSIONS.

1. C-Reactive-Protein titration not shown any difference among groups.
2. Nitrite concentration were higher in samples of Tlaxcala than Iztapalapa and Tecamac.
3. Ceruloplasmin levels and Glutathion peroxidase were higher in samples from Iztapalapa DF, than from the other places.

CONCLUSIONS.

3. Superoxid-Dismutase activities were more in Iztapalapa DF and Tecamac Estado de Mexico in comparison to other places.
4. Glucose and hemoglobin were normal and not shown any difference among groups.