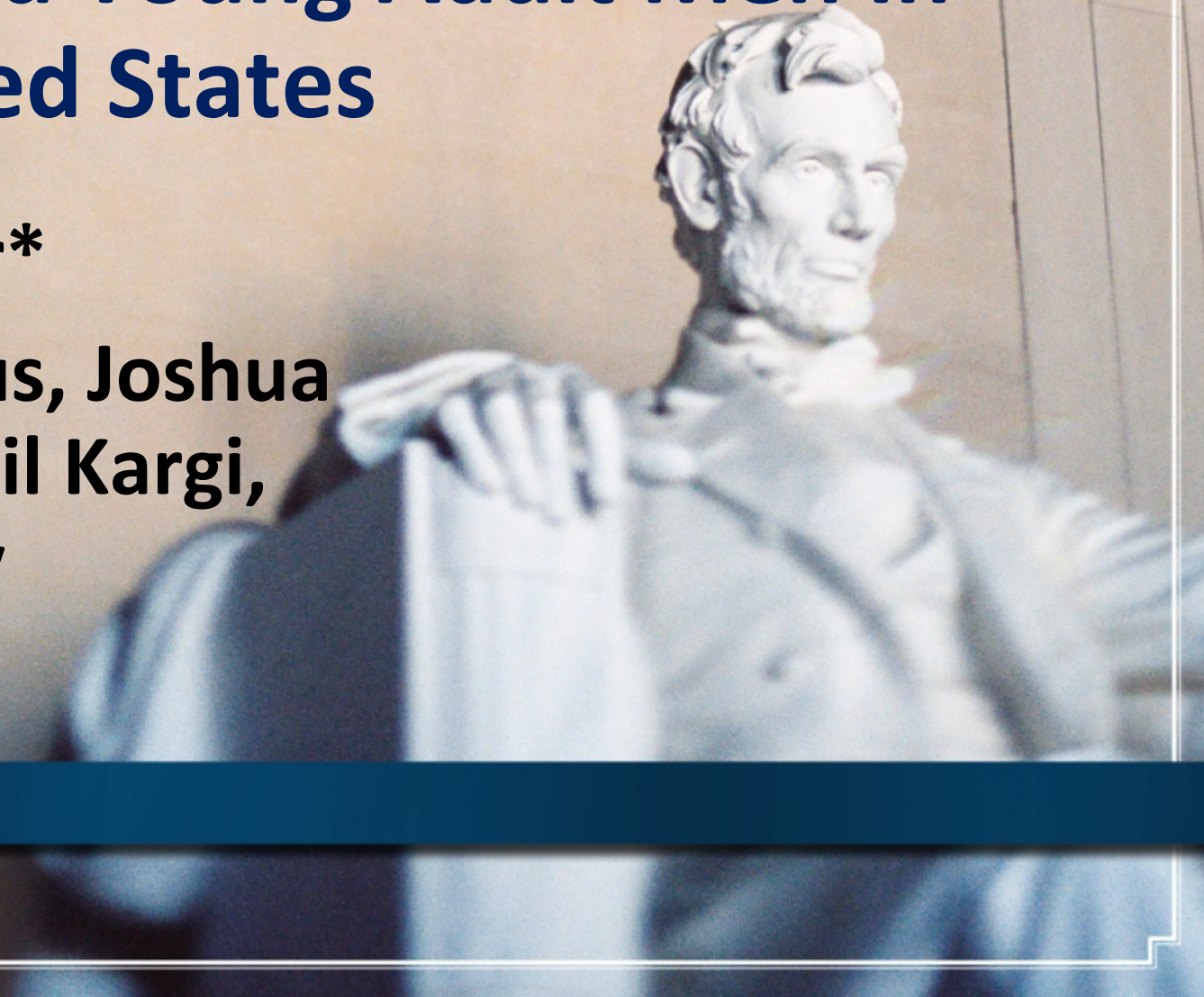


MP78-01 Trends In Serum Testosterone Levels Among Adolescent And Young Adult Men In The United States

Soum D. Lokeshwar*

**Premal Patel, Richard Fantus, Joshua
Halpern, Cecilia Chang, Atil Kargi,
Ranjith Ramasamy**



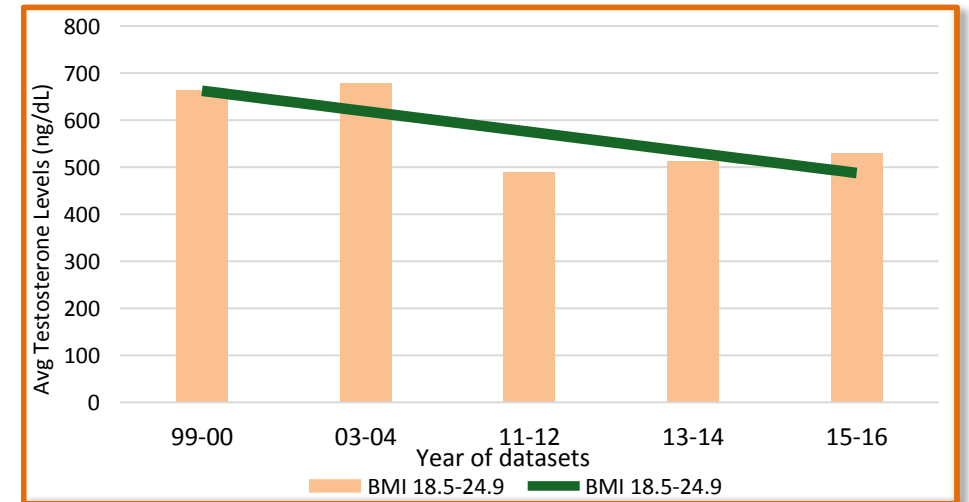
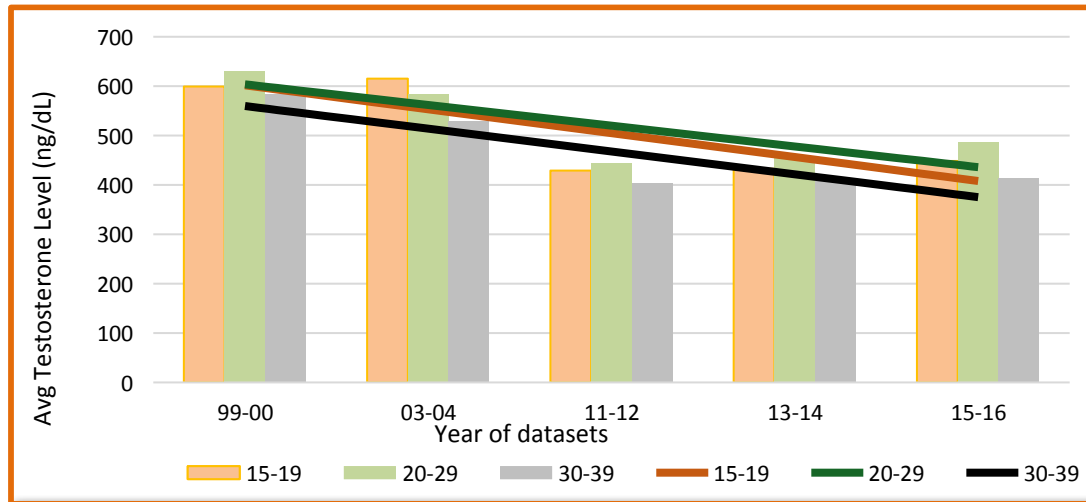
Introduction

- **Hypothesis:** Serum total testosterone (TT) levels will decline in AYA (Age 15-39) men
- **Objective:** To analyze serum TT levels in AYA males using data from the **National Health and Nutrition Examination Surveys (NHANES)** 1999-2016
- **Methods:** Utilizing the NHANES data cycles which had values for serum TT and analyzed changes in serum TT over time controlling for year of study, age, race, body mass index (BMI), comorbidity status, alcohol and smoking use, and level of physical activity.



Results & Conclusion

- 4,045 men had TT measured from 1999-2016



- Mean TT decreased over time ($p < 0.0001$), even in men with normal BMI, TT declined ($p < 0.05$). Declining TT levels in AYA men, may have large ramifications as low T has been linked to underlying comorbidities and potentially increased mortality risk.

