

INTRODUCTION

- Hydration is vital to health & influences bodily functions
- Evidence demonstrates that urine hydration status markers can be influenced by sex, race, activity type, and body composition
- PURPOSE: Investigate the relationships between body mass metrics, USG, and Urine color in college-aged females

METHODS

- Collegiate women ages 18-23 were recruited for this study, n = 16
- Urine samples were provided on two separate visits- after overnight fast, total n = 32
- Body composition estimated via standing, BIA, USG measured with digital refractometer, Urine Color via paper chart
- Stats = Correlations (Pearson's or Spearman's)

RESULTS

• **Table 1.** Summary Descriptive Data – measured on two different days (n = 32; age range 18-23 y).

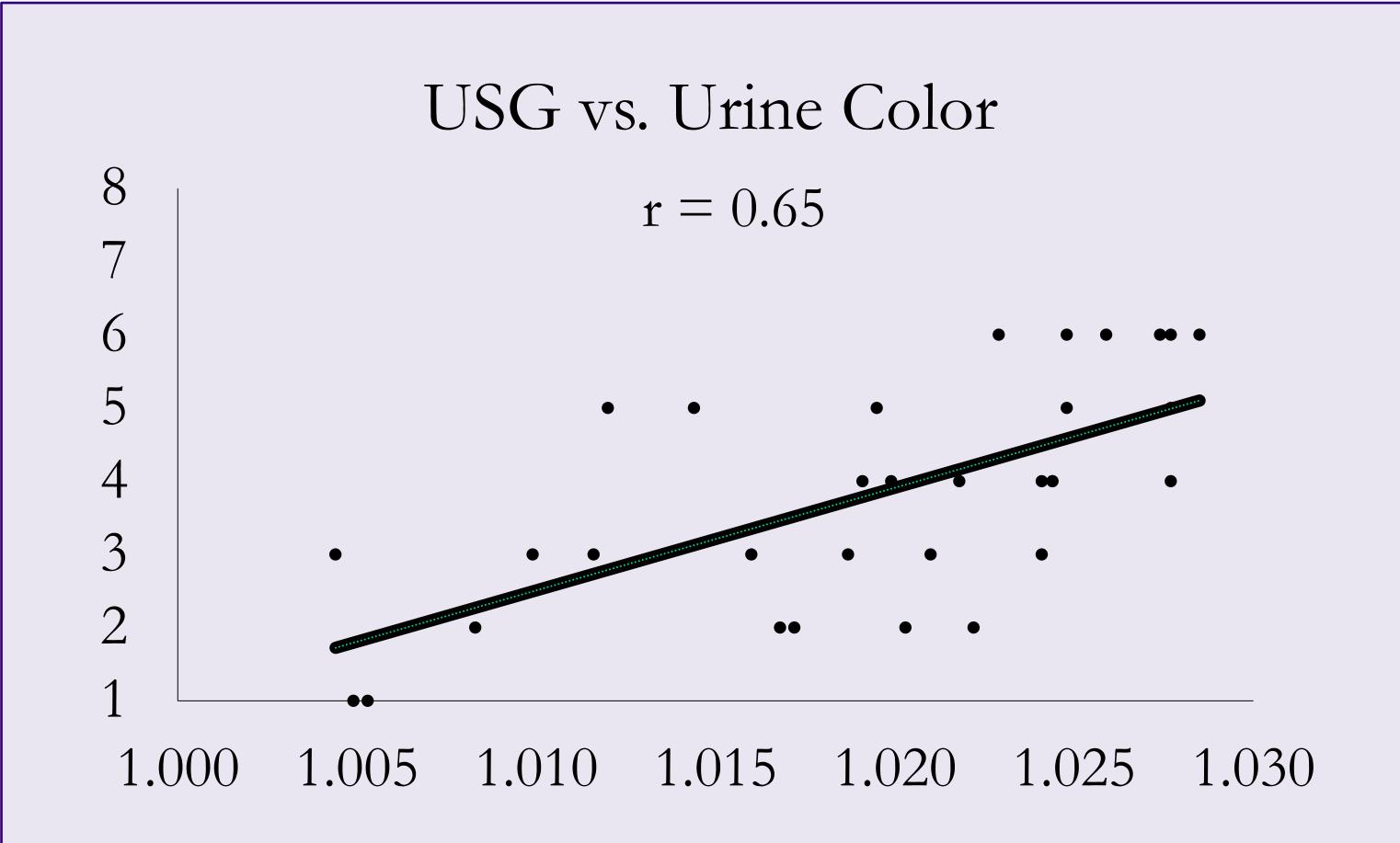
	BF %	Wt (kg)	USG	Lean Mass (kg)	Fat Mass (kg)
Mean	31.6		1.0193		23.3
SD	10.4	18.6	0.0072	5.0	13.7

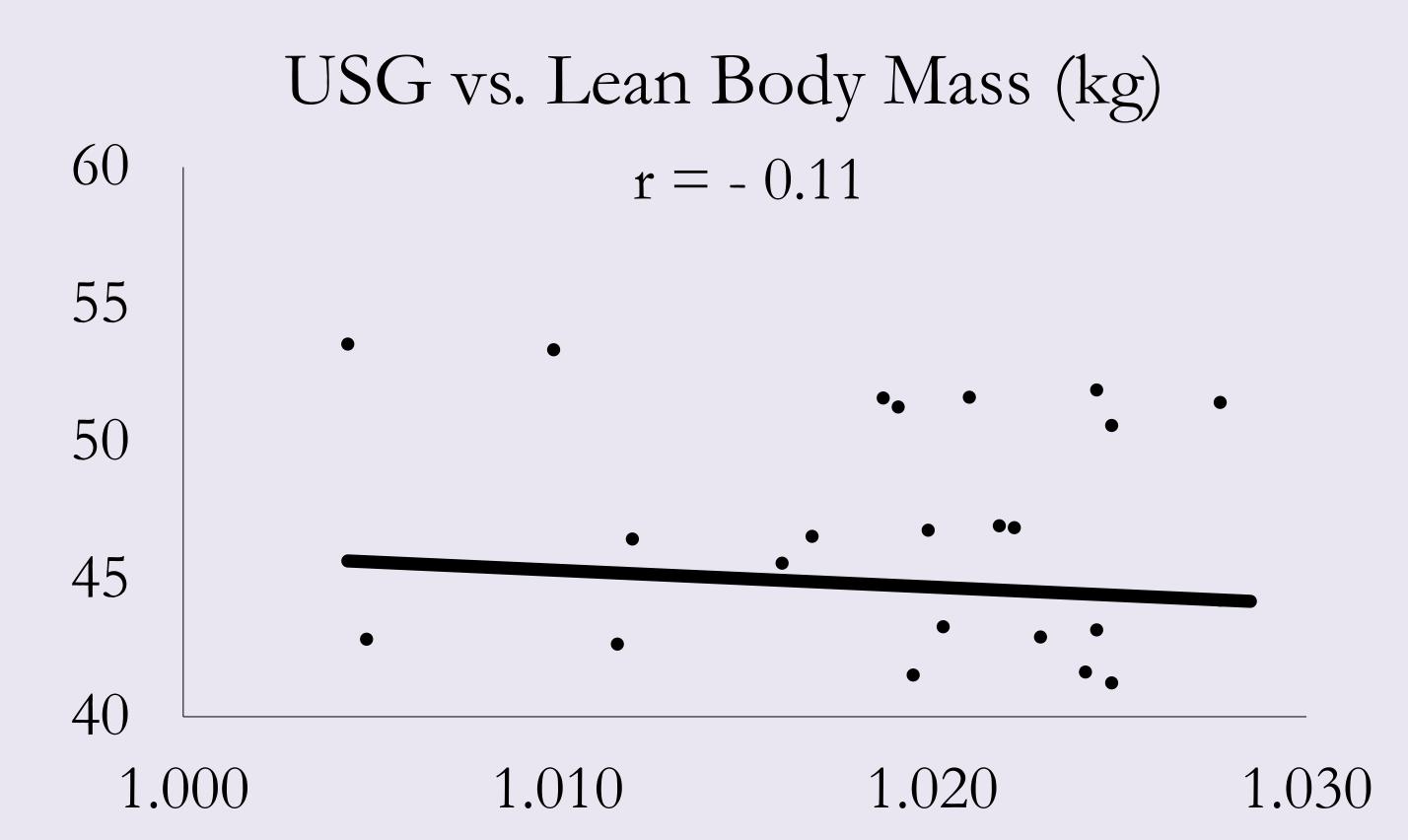
THE INFLUENCE OF LEAN BODY MASS ON URINE HYDRATION INDICES IN COLLEGIATE FEMALES

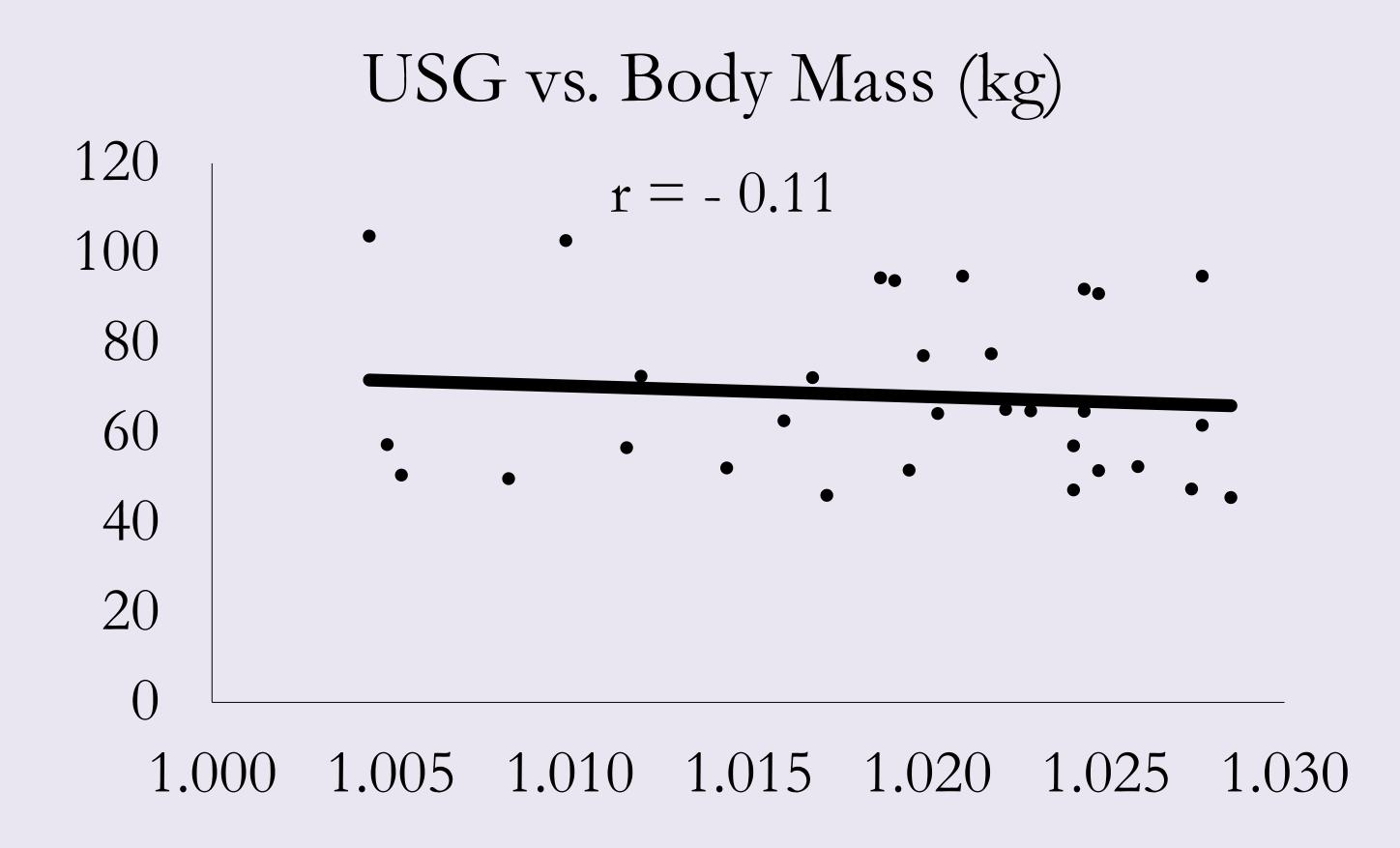
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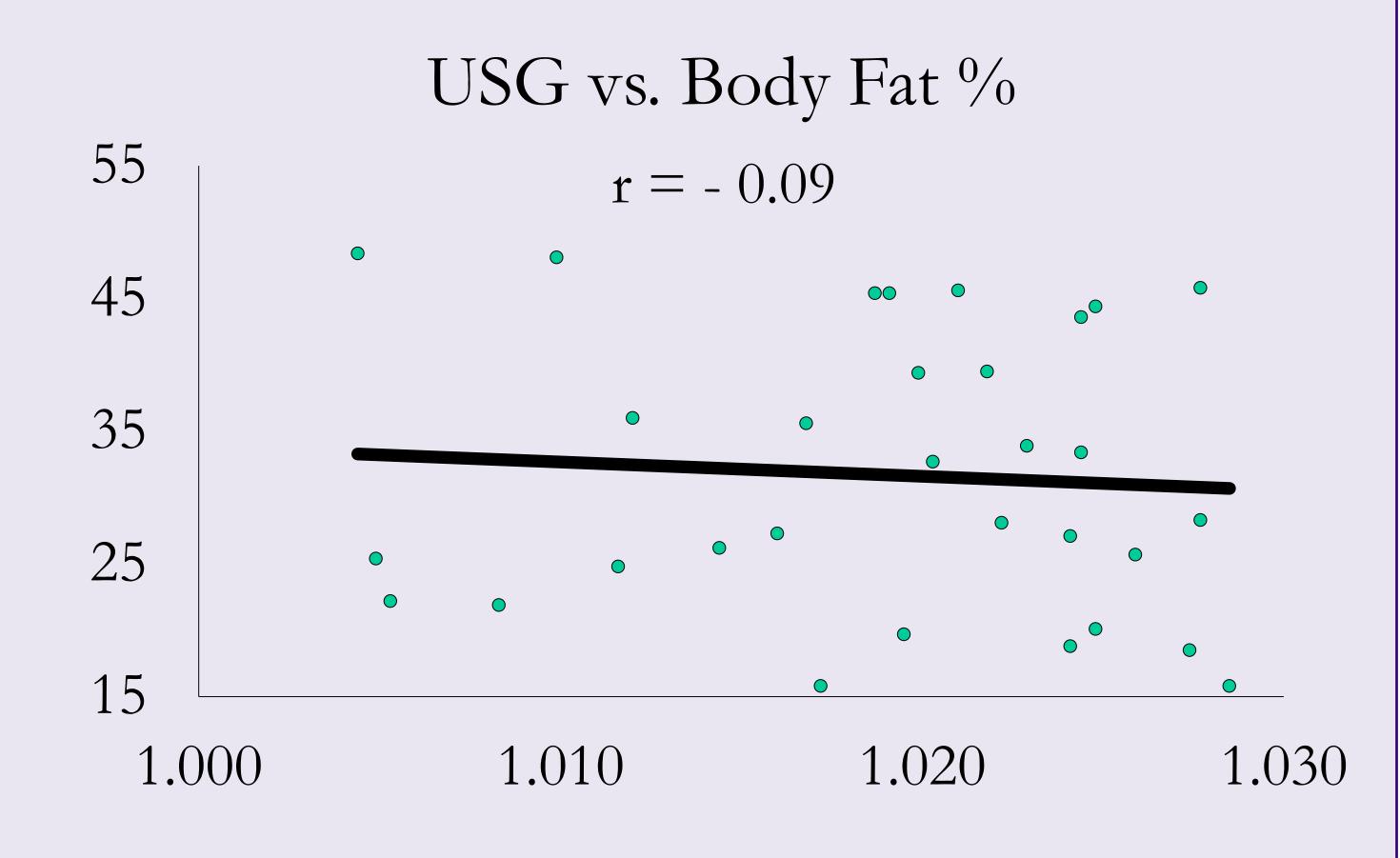
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RESULTS









CONCLUSION

- Larger body mass & tissue mass were associated with more-favorable urine hydration indices
 - These data support the opposite of our hypothesis

PRACTICAL APPLICATIONS

- Individualized hydration indices could support more-meaningful monitoring & education
- Additional research & critical thinking are needed to further elucidate hydration recommendations