Introduction:

- Sports acculturation is a complex and dynamic process that can be influenced by the athletes' cultural background/upbringing, acculturative stress, and the dominant culture^[11]
- The intersectionality of social identity, as collegiate athletes, can also impact the way in which they assimilate^[21]
- Current literature shows minimal information about cultural diets for sports enhancement

Objective:

To understand the interplay between cultural, ethnic, and athletic identity, and how this may affect food choices in Mexican American collegiate athletes

Background:

California's Youth & Outdoor Activities^[3] Ethnic/Racial Makeup:

Hispanic/Latinx (47%), White alone (31%), Black or African American alone (10%), and Asian alone (8%)

NCAA 2021-2022 School Year^[16]

Ethnic/Racial Makeup:

- Strength and conditioning coaches (78%), registered dietitian nurse (80%)^[4], head coaches (84%), athletic directors (84%), and athletic trainers (89%) are non-Hispanic/Latinx White
- There will be more Hispanic/Latinx athletes at the youth, high school and college sports^[11]

Hypothesis: We hypothesize that Mexican American student-athletes will perceive a lack of representation of traditional and cultural foods in sports nutrition dietary disconnection from their heritage

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Review of Literature:

Hispanic/Latinx Population

- Cultural values consist of Latinx such as *familismo* (familism)^[16], cooperation^[6], *respeto* (respect)^[12], *machismo* (strong, masculine pride)^[4]
- Expressions such as "si Dios quiere" (God willing)^[15], "echale ganas" (make your best efforts), and "ponte las pillas " (get to work) encourage tough mentality

Athletic Identity

- New athletic identity may be formed and may lead to a disconnect from their heritage and cultural identity^[17] • Overly salient athletic identity is linked to burnout, stress, depression, isolation, disordered eating, and decreased performance ^{[10][17][18]}
- "No pain, no gain" and silencing emotion are common strategies for coping with physical and emotional pain^{[21}]

Nutrition

- Should be sufficient to provide the demands of training and performance, aid in injury prevention, and support recovery and overall health.
- Common for athletes to find misleading information on sports enhancement diets on popular blogs and social media platforms
- Pressure to assimilate to an athletic culture may also result in a loss of traditional dietary practices, as athletes may prioritize the latest dietary trends over their cultural food practices

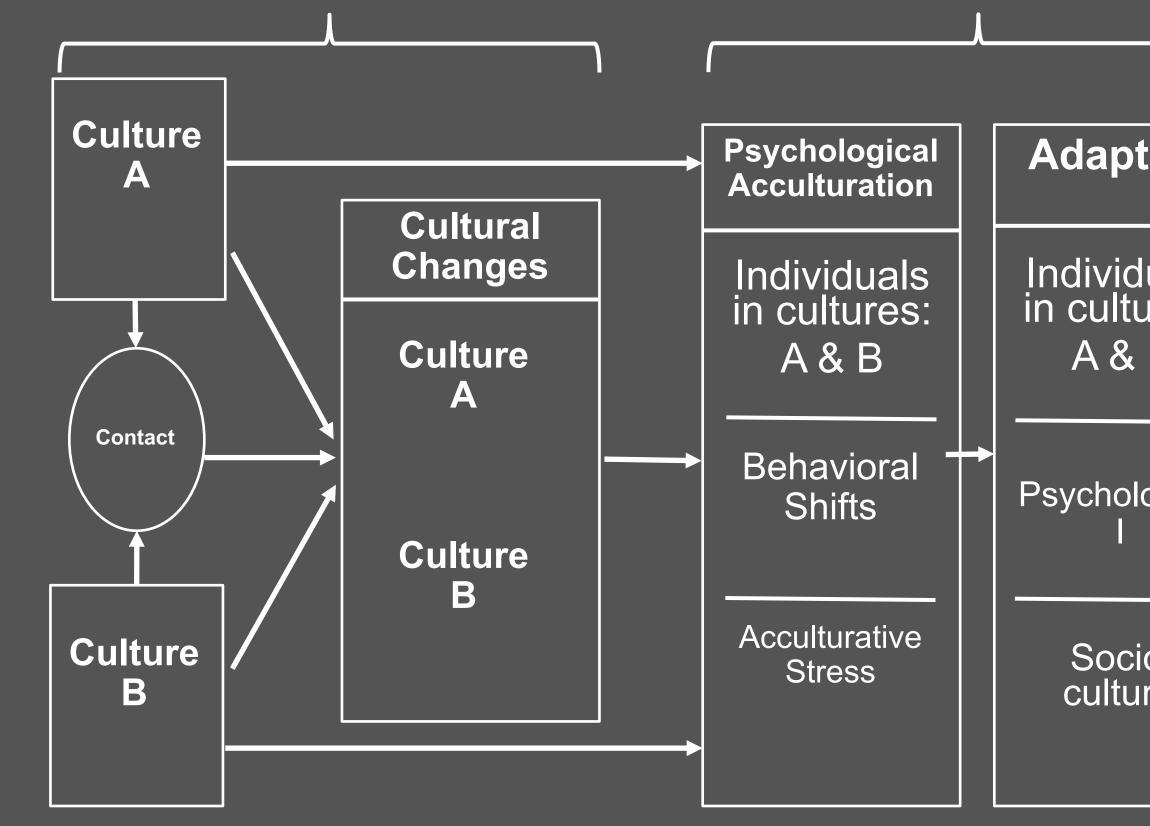
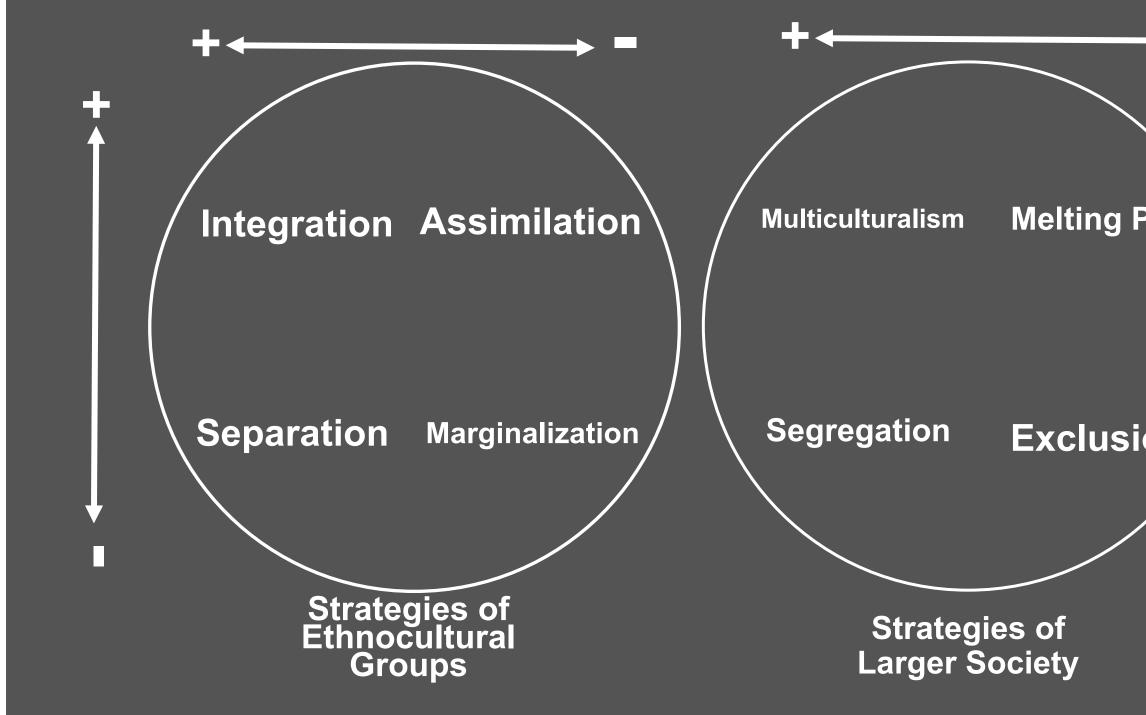


Figure 1. The conceptual framework of acculturation ^[1]

Figure 2. Berry's Acculturation Model^[1]



Figures

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	Figure 3. Difference Diet Standard Ame

rd American^[9] Red meat, cessed, pre-packed ried foods, Sugar, High in fat tremely low: hole grains, vegetables, es, & healthy fats

Mexican Diet^[8] Beans, leat, Lard itrus fruit, based w/chilies, her in: fiber, nole grains, Fruits, **egetables** uble/insoluble fiber



ces between Traditional Mexican Diet, Standard American Diet, and Sports enhancement recommendations

Population and Sampling

Research Design/Collection Data

- (SMAS)^[20],

content/uploads/content/pubs/jtf/JTF YouthActivitiesJTF.pd Methods, 39, 175-19 Clinical Nutrition, 83 (2): 284–90 Kontos, A. P., & Breland-Noble, A. M. (2002). Racial/ethnic diversity in applied sport psychology: A multicultural introduction to working with athletes of color. The Sport Psychologist, 16(3), 296-315 sciences, 9(4), 397-412 1676-1686 19. Exercise, 25, 36-43 institutions. Journal of Black Psychology, 36(1), 3-24.

exercise metabolism, 29(6), 620-627

Methods:

 Inclusion Requirements: NCAA Division II athletes, aged 18 to 30 years old

• Self-administered by the participants in their own environment without any time using the Qualtrics software^[23]

 Intended sample size of 132^[7] participants will be used to assess the relationships between acculturation, ethnic identity, athletic identity, and food choices

• Procedures: Survey questions will be drawn from Stephenson Multigroup Acculturation Scale

 Multigroup Ethnic Identity Measurement (MEIM)^[14] Athletic Identity Measurement Scale (AIMS)^[2] The Athlete Food Choice Questionnaire (AFCQ)^[22] Supplementary data collection on demographic and source of nutritional advice

Statistical Analysis

• It depends! Since data has not yet been collected, a regression linear model or a general linear model: mixed model ANOVA

Citations:

Berry, J. W. (2009). A critique of critical acculturation. International Journal of Intercultural Relations, 33(5), 361-3

Brewer, B. W., Van Raalte, J. L., & Linder, D. E. (1993). Athletic identity: Hercules' muscles or Achilles heel?. International journal of sport psychology

California's Youth and Outdoor Activities. Public Policy Institute of California. Retrieved April 18, 2023, from https://www.ppic.org/w

Casas, J. M., & Pytluk, S. D. (1995). Hispanic identity development: Implications for research and practice

Demographics. Commission on Dietic Registration. Retrieved April 24, 2023 from https://www.cdrnet.org/academy-commission-on-dietetic-registration-demographics

Dunford, M., Doyle, J. A., & Killian, L. (2022). Nutrition for sport and exercise. Cengage.

Durán R P (1992) Clinical assessment of instructional performance in cooperative learning

Faul, F., Erdfelder, E., Lang, A.-G., & Buchner, A. (2007). G*Power 3: A flexible statistical power analysis program for the social, behavioral, and biomedical sciences. Behavior Research

Gwynn, E. R., & Gwynn, D. (1993). Food and Dietary Adaptation among Hispanics in the. Handbook of Hispanic cultures in the United States: anthropology, 339 Halton, T. L., Willett, W. C., Liu, S., Manson, J. E., Stampfer, M. J., & Hu, F. B., (2006). "Potato and french fry consumption and risk of type 2 diabetes in women". The American Journal of

Jones, N., Marks, R., Ramirez, R., & Ríos-Vargas, M. (2022, June 10). 2020 census illuminates racial and ethnic composition of the country. Census.gov. Retrieved November 18, 2022, from https://www.census.gov/library/stories/2021/08/improved-race-ethnicity-measures-reveal-united-states-population-much-more-multiracial.htr

Marin, G. (1992). Issues in the measurement of acculturation among Hispanics NCAA Demographics Database. NCAA.org. Retrieved January 28, 2023, from https://www.ncaa.org/sports/2018/12/13/ncaa-demographics-database.aspx

Phinney, J. S. (1992). The multigroup ethnic identity measure: A new scale for use with diverse groups. Journal of adolescent research, 7(2), 156-176

Rosales, R., & Calvo, R. (2017). "Si Dios Quiere": Fatalismo and use of mental health services among Latinos with a history of depression. Social work in health care, 56(8), 748-76

Sabogal, F., Marín, G., Otero-Sabogal, R., Marín, B. V., & Perez-Stable, E. J. (1987). Hispanic familism and acculturation: What changes and what doesn't?. Hispanic journal of behavioral

Schinke, R. J., McGannon, K. R., Battochio, R. C., & Wells, G. D. (2013). Acculturation in elite sport: A thematic analysis of immigrant athletes and coaches. Journal of sports sciences, 31(15),

Schinke, R. J., Blodgett, A. T., McGannon, K. R., & Ge, Y. (2016). Finding one's footing on foreign soil: A composite vignette of elite athlete acculturation. Psychology of Sport and

Steinfeldt, J. A., Reed, C., & Clint Steinfeldt, M. (2010). Racial and athletic identity of African American football players at historically black colleges and universities and predominantly white

Stephenson, M. (2000). Development and validation of the Stephenson Multigroup Acculturation Scale (SMAS). Psychological assessment, 12(1), 77

Tibbert, S. J., Andersen, M. B., & Morris, T. (2015). What a difference a "Mentally Toughening" year makes: The acculturation of a rookie. Psychology of Sport and Exercise, 17, 68-78. Thurecht, R. L., & Pelly, F. E. (2019). Development of a new tool for managing performance nutrition: The Athlete Food Choice Questionnaire. International journal of sport nutrition and

Qualtrics. (2020). Qualtrics.com. (Version April 2023). Qualtrics. https://qualtrics.com.