BLESSING-RIEMAN College of Nursing & Health Sciences

Assessment

Opportunity:

Female athletes at Quincy University (QU) lack education rethe Female Athlete Triad (the Triad) and proper nutrition

Driving Forces:

- Support from QU Women's Soccer Coach
- Data showing a need for education
- Reducing preventable injuries and optimizing athletic perform

Restraining Forces:

- Access to QU coaches
- Reluctance of female athletes to change their dietary habits
- Limited team budgets for food
- Dietary offerings in the QU cafeteria

Literature Review

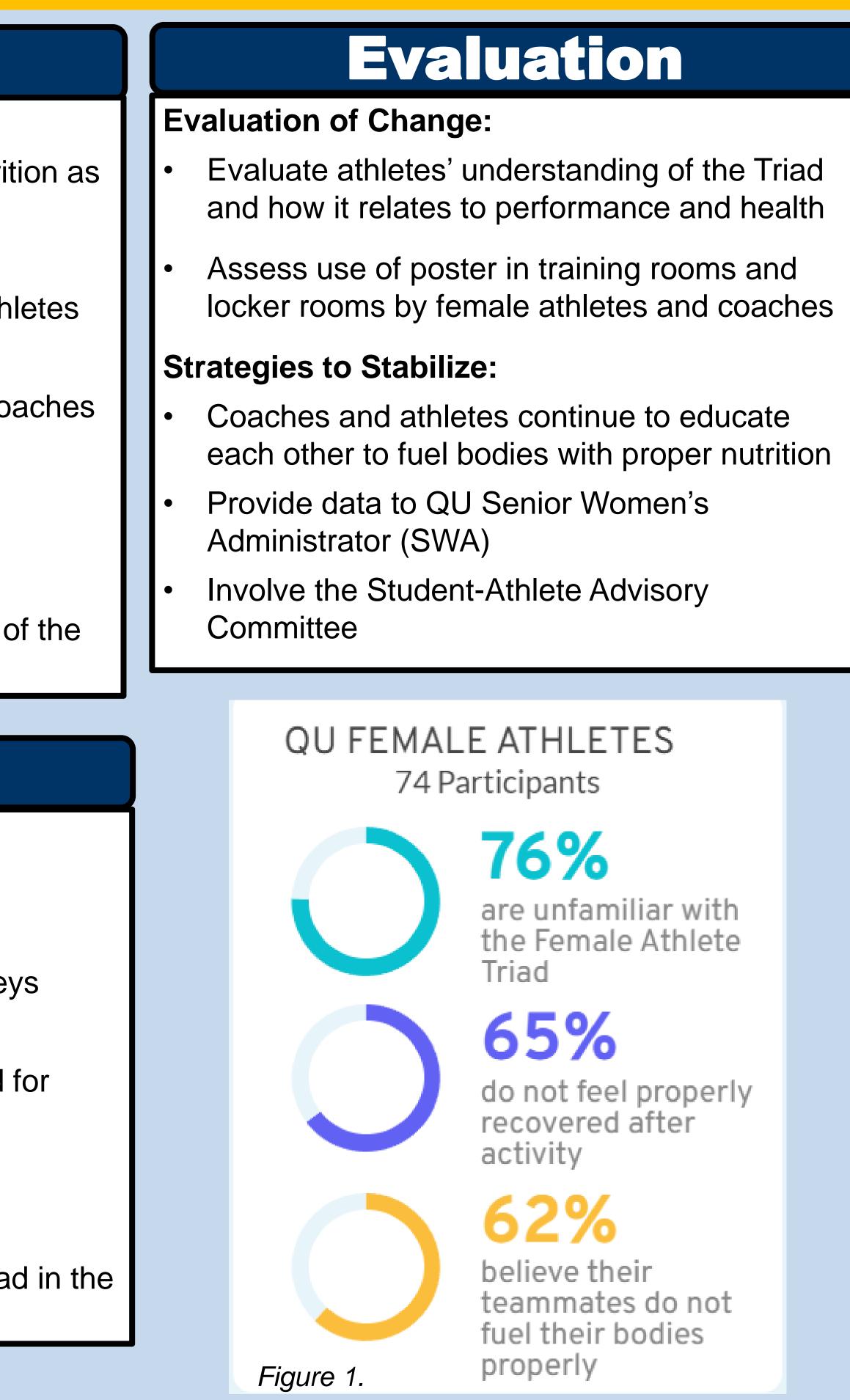
- There is a greater prevalence of the Triad risk factors in fem athletes now than there has been in the past ³
- 76.3% of participants were classified as currently having disc eating ³
- Low energy availability is the most common force of the Triad
- Energy deficit suppresses the menstrual cycle and bone mir density thus developing all three factors of the Triad¹
- Need an energy-positive state by increasing food intake and decreasing energy expenditure ¹
- Need adequate calcium, vitamin D, iron, zinc, and vitamin K
- Athletes need 15-30% of calories from protein sources, 20-3 calories from fat sources, and need to consume 8-12 grams kilogram of body weight of carbohydrates for intense training

Acknowledgements: Mackenzie Bellows, QU Head Women's Soccer, QU Women's Softball, QU Women's Softball, QU Women's Softball, QU Women's Soccer, QU Women's Softball, QU Women's Softball, and QU Women's Tennis

Fueling for Success

Paige Anderson, Emilee Autry, Emma Vaughn NSG 405: Senior Leadership Change Project, Spring 2022

	Planning
	Short-Term Goal:
egarding	 Educate stakeholders on the importance of nutri- it relates to the Triad
	Long-Term Goal:
	 Prevent the Triad development in QU female ath
	Plan of Evaluation:
mance	 Assess educational changes implemented by co to female athletes
	Strategies to Hardwire Change:
	 Pass on project to be continued by younger QU/CSC/BRCN student athletes
	 Educate college community on the importance of Triad
	Implementation
nale	Strategies for Handling Resistance:
sordered	 Gathered survey data face to face
	 Created and analyzed paper surveys
ad ¹	 Provided coaches with data gathered from survey
neral	Implementation Steps:
d	Completed literature review to support the need better nutrition provided to athletes
	 Surveyed coaches and female athletes
(1	 Analyzed data to assess need for education
35% of s per	 Developed educational poster for athletes to rea athletic training room and locker rooms



Summary

What We Learned:

- Implementing change is difficult
- Professional collaboration with stakeholders
- Timely communication is imperative
- Persistence to achieve goals

What We Would Do Differently:

- **Begin earlier**
- Obtain data from all female athletes and coaches
- Meet with QU Athletic Director to discuss team budgets for food

References

- 1. Mehta, J., Thompson, B., & Kling, J. (2018). The female athlete triad: It takes a team. Cleveland Clinic Journal of Medicine, 85(4), 313-320.doi:10.3949/ccjm.85a.16137
- 2. Bytomski, J. (2017). Fueling for performance. Sports Health: A *Multidisciplinary Approach*, 10(1), 47-53. doi:10.1177/1941738117743913
- 3. Skorseth, P., Segovia, N., Hastings, K., & Kraus, E. (2020). Prevalence of female athlete triad risk factors and iron supplementation among high school distance runners: Results from a triad risk screening tool. The Orthopaedic Journal of Sports Medicine, 8(10). doi:10.1177/2325967120959725

Figure List Figure 1. Anderson, P., Autry, E., & Vaughn, E. (2022). QU Female Athletes [Infographic].