

## Impact of Nutrition on a Swimmer's Performance

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#### **Abstract**

#### Objective:

The objective of my study was to evaluate the impact that food and nutrition makes on a swimmer's performance.

#### Methods:

Case Study in addition to a matched-pairs test (before and after).

#### Results:

Through my findings I was able to conclude that carbohydrates as well as protein and fats all play a huge role in a swimmer's performance.

#### **Objectives**

- Objectives of my study included
- Identifying if nutrition was an important element in swimmer's performance.
- Helping myself and my teammates develop an understanding on how nutrition can impact their swimming in the long run

#### Limitations

- •I had a small sample pool so less reliability.
- •I was dealing with a couple of months and could have benefited from more time.

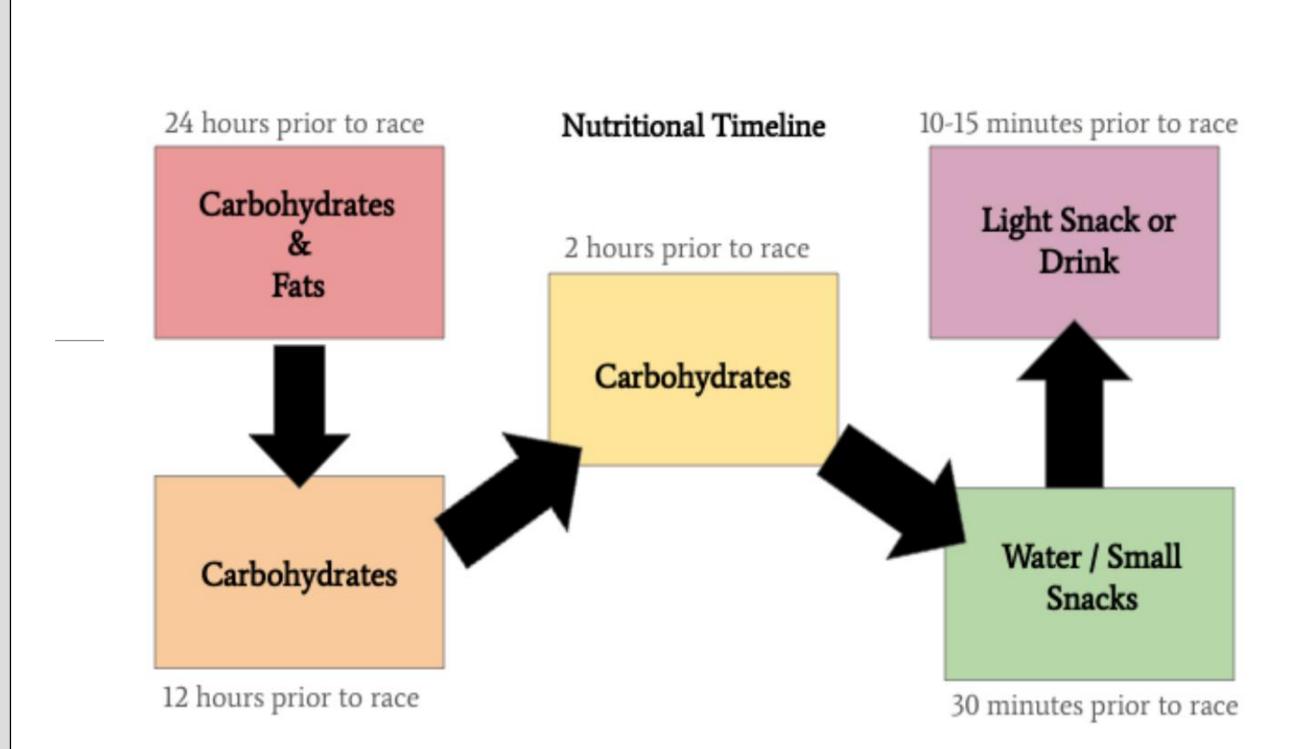
#### Conclusions

- I concluded nutrition is important for swimmers.

Implications

My study will allow for more of my teammates to consider what they eat leading up to their races. *METHODS* 

•I chose to use a case study matched-pairs design because I wanted to utilize both qualitative and quantitative data in order to compare how carbohydrates contributes to a swimmer's performance. I did this by using their best and worse meets throughout the season and recording their meals.

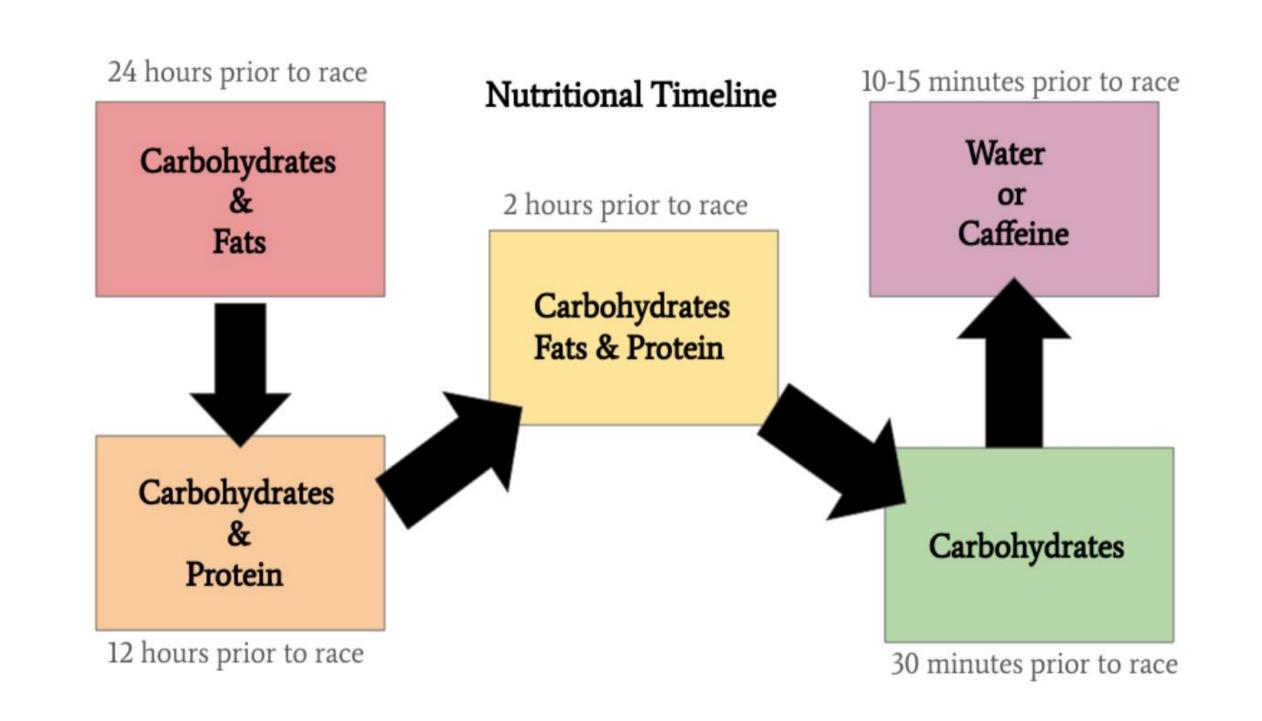


## Female

## RESULIS

These two charts depict the ideal nutritional timelines for both male and female swimmers.

### Male



# Additional Information

My study found that male athletes both sprint and distance do significantly better when consuming a high amount of carbohydrates My study also found that female swimmers differe. A female sprint swimmer needs a substantial amount of carbohydrates to perform well while it is the opposite for female distance swimmers.

Additionally, it is important to note that my findings also suggest that caffeine is a useful resource for sprint swimmers.