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100 Miler Performance for Women compared to Men



Motivation

Run Rabbit Run Statement:

- To boost women's participation, allow "tortoise" women an extra hour to complete the race.
 - Reinforces stereotypes that women aren't "strong enough" to complete 100s in the allocated time. May cause barriers to entry as women don't perceive themselves as capable.



Problems to solve

Currently, do women actually run significantly slower than men?

Do women disproportionately drop out of races?

Methodology

Examine results from popular 100 mile races on a variety of terrain types

Perform significance testing on mean/median differences in finish times

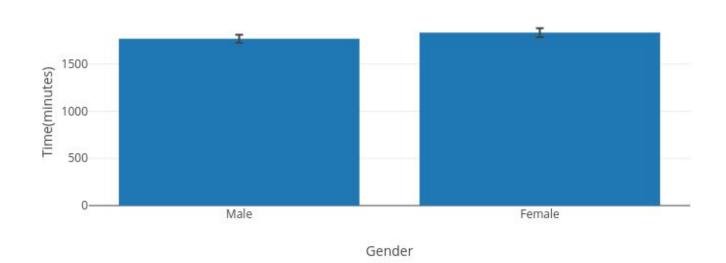
When available, examine DNF rates for men/women





T-Test ind: T(66) = 1.02, p = 0.31 Kruskall-Wallis: $\chi^2(2)$ = 0.28, p = 0.59

Orcas 100

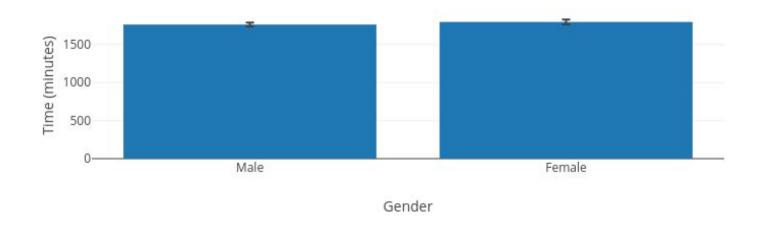


Cascade Crest 2017

Male and Female Finish Times Did Not Significantly Differ:

T-Test ind: T(107) = 0.85, p = 0.39

Cascade Crest 2017

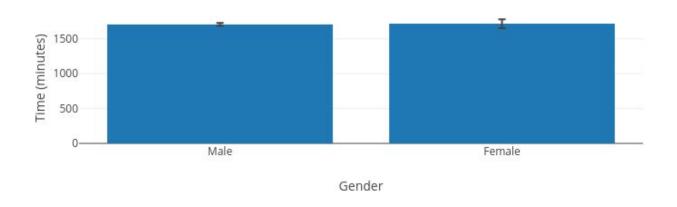


Cascade Crest 2018

Male and Female Finish Times Did Not Significantly Differ:

T-Test ind: T(144) = 0.16, p = 0.87

Cascade Crest 100 - 2018

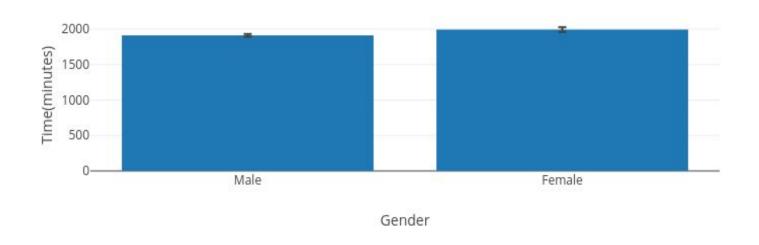




Male and Female Finish Times Did Significantly Differ....but not with bonferroni correction:

T-Test ind: T(164) = 2.13, p = 0.03

RRR Tortoises 100



Other Results

Hardrock 100 - 2018:

• t(111) = 0.15 , p-value = 0.88

HURT 100 - 2018:

• t(66) = 1.8 , p-value = 0.08

JJ 100 - 2018: *

• t(365) = 5.59 , p-value < 0.001

Conclusions:

 For 100 mile races: very rarely do men, on average, run significantly faster than women

