Caption:   
Increased Muscle Damage in HIF-1α KOs Following Repeated Exercise(A) WT mice and HIF-1α KOs underwent a 4-d endurance test, in which animals were run to exhaustion on each of four successive days with a minimum of 22 h rest between trials. HIF-1α KOs demonstrated initially greater endurance under the protocol; however, by the second day, their endurance advantage was eliminated, and by the fourth day, HIF-1α KOs were running for a significantly shorter time (\*\*p < 0.01) than on the first day, while WT animals were running for approximately similar times as on the first day. Repeated measures ANOVA revealed that the decrease in performance on each successive day was unique to HIF-1α KOs (p < 0.05).(B) Example of hematoxylin and eosin staining of gastrocnemius muscles after 1 d of recovery by mice after the 4-d endurance test. Evidence of greater damage can be seen in HIF-1α KO muscles compared to WT muscles.(C) Example of PCNA staining of gastrocnemius muscles from exercised mice, demonstrating increased levels of muscle regeneration in HIF-1α KOs.(D) Number of PCNA-positive nuclei per square millimeter in gastrocnemius muscles of WT mice (n = 5) and HIF-1α KOs (n = 7) that ran repeatedly for 4 d. Although HIF-1α KOs have almost twice as many PCNA-positive nuclei per square millimeter, the difference is not significant, because of wild variations in that population. F-test analysis of the data reveals that the variance is much greater in the HIF-1α KO population than the WT population (p < 0.05).

Question: What is the difference in PCNA-positive nuclei between HIF-1α KOs and WT mice after exercise?   
   
A: HIF-1α KOs have significantly more PCNA-positive nuclei than WT mice.   
B: WT mice have significantly more PCNA-positive nuclei than HIF-1α KOs.   
C: HIF-1α KOs and WT mice have the same number of PCNA-positive nuclei.   
D: The difference in PCNA-positive nuclei is not significant between HIF-1α KOs and WT mice.

Answer: D: The difference in PCNA-positive nuclei is not significant between HIF-1α KOs and WT mice.