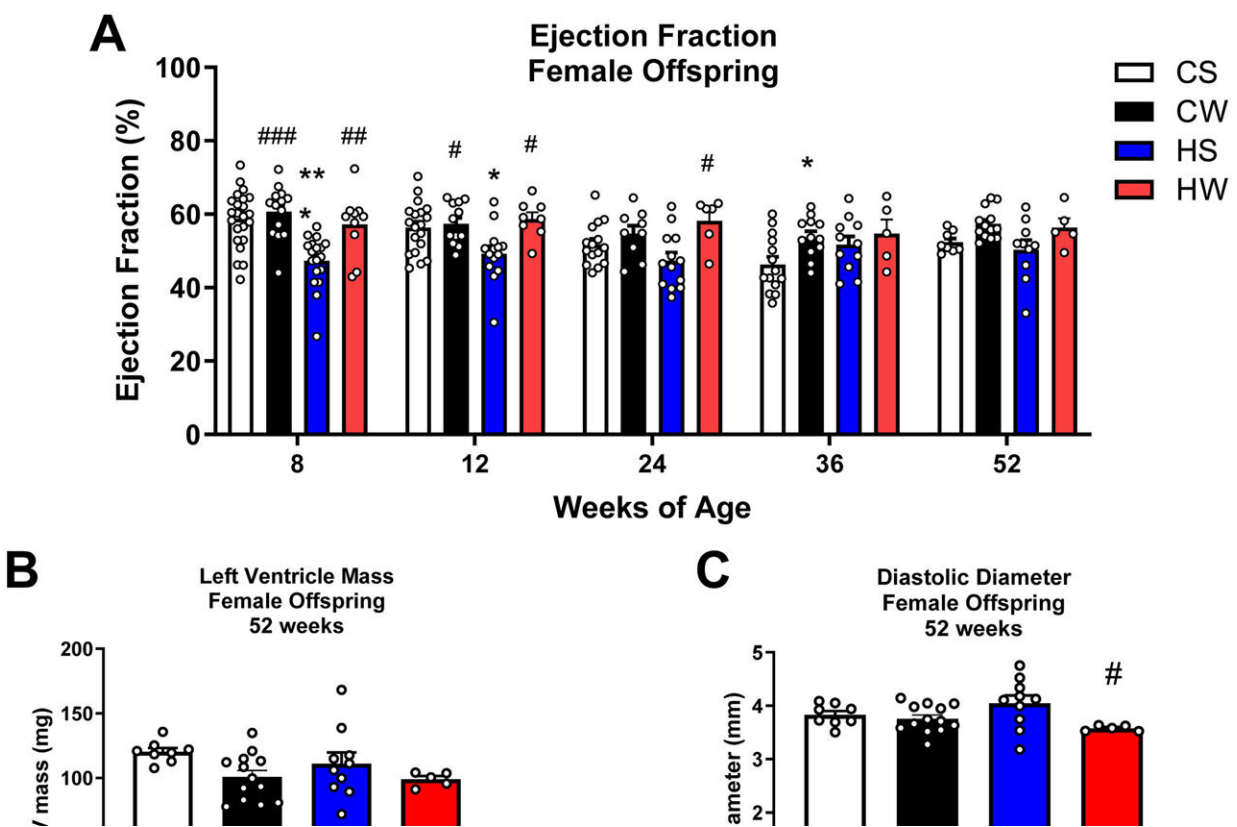


# Mouse study shows exercise during pregnancy improves heart health of future generations

March 27 2024, by Amy Colgan



Voluntary maternal wheel exercise ameliorates the detrimental effects of a maternal HFD on female offspring cardiac function in vivo. (A) Female offspring ejection fraction (EF) at 8, 12, 24, 36 and 52 weeks of age, (B) left ventricular mass (LVM) and (C) diastolic diameter (DD) at 52 weeks of age as derived from echocardiography. (D) Male offspring EF at 8, 12, 24, 36, 52 weeks of age and (E) LVM and (F) DD at 52 weeks of age as derived from

echocardiography. Data presented as mean  $\pm$  SEM. Female offspring from CS n = 15–23, HS n = 10–18, CW n = 9–14, HW n = 5–10; male offspring from CS n = 5–23, CW n = 9–18, HS n = 15–21, HW n = 17–19. Two-way ANOVA with multiple comparisons at each time point for EF (A, E) and one-way ANOVA with Tukey's multiple comparisons test for sarcomere length, LVM, and DD (B,C; E,F). \*P

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