

SUPPLEMENTARY MATERIAL

SUPPLEMENTARY METHODS

Rotarod balance and coordination

Mice are timed for ability to stay atop a spinning cylinder that increases in speed from 4 to 40 RPM over 5 minutes. Latencies to fall or a maximum time of 360 seconds are recorded in 3 trials. The mice tolerate the fall without harm.

Grip Grid

Mice are placed on a wire grid and then inverted over a 30 cm x 30 cm x 45 cm (L x W x H) box and timed until fall. Three timed trials are administered, and the trial is stopped if the mouse falls or maintains a grip for 600 seconds. The mice tolerate the fall without harm.

SUPPLEMENTARY FIGURE

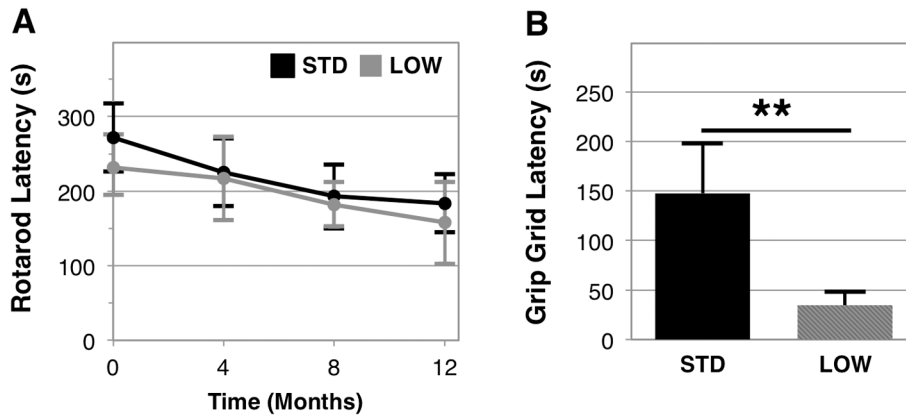


Figure S1. Physical performance in vitamin D sufficient and insufficient mice. Vitamin D sufficient (STD) and insufficient (LOW) mice were assessed across a range of physical performance domains that include: rotarod latency to fall as the best 2 of 3 trials (A), and grip endurance as the best of two trials timed for latency to fall from a grid apparatus (B). Statistical significance indicated by “**” $p < 0.01$.