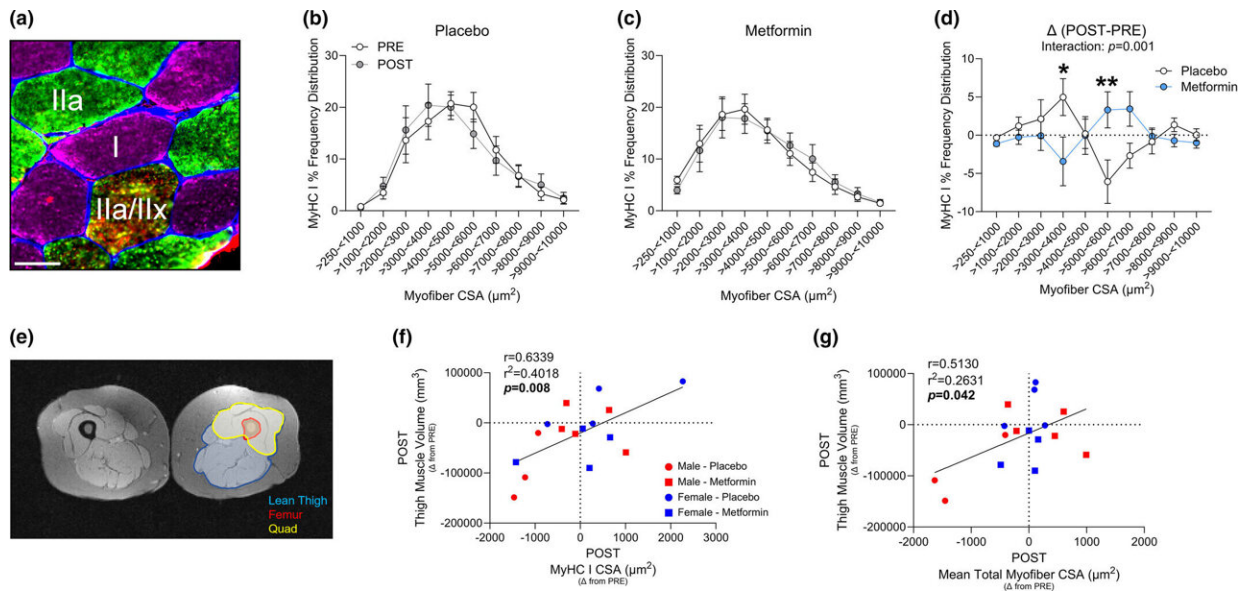


# Common diabetes drug can also prevent muscle atrophy and muscular fibrosis

July 25 2023, by Sarah Shebek



Metformin prevented myofiber cross-sectional area reduction after bed rest. (a) Representative image used to determine myofiber type specific CSA. (b, c) Frequency distribution of myosin heavy chain I (MyHC I) PRE and POST. (d) POST delta ( $\Delta$ ) from PRE-intervention percent fiber frequency of MyHC I myofiber cross-sectional area (CSA) from 250 to 10,000  $\mu\text{m}^2$ . (e) Representative MRI image used to determine thigh muscle volume. (f) Correlation of the change in thigh muscle volume ( $\text{mm}^3$ ) after bed rest to the change in MyHC I myofiber CSA ( $\mu\text{m}^2$ ) after bed rest. (g) Correlation of the change in thigh muscle volume ( $\text{mm}^3$ ) after bed rest to the change in mean myofiber CSA ( $\mu\text{m}^2$ ) after bed rest. \* $p$

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