

WESTERN DIET AND SUGAR WATER-INDUCED MASH MODEL

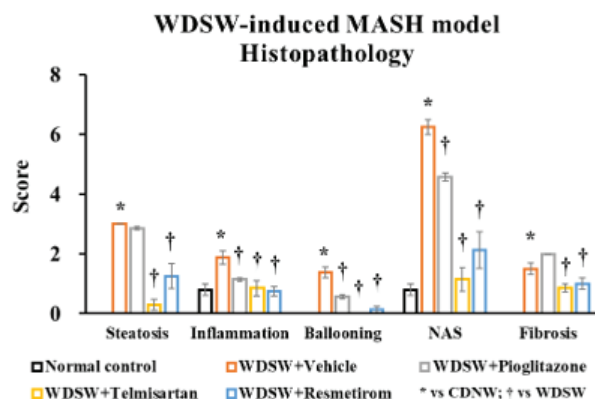
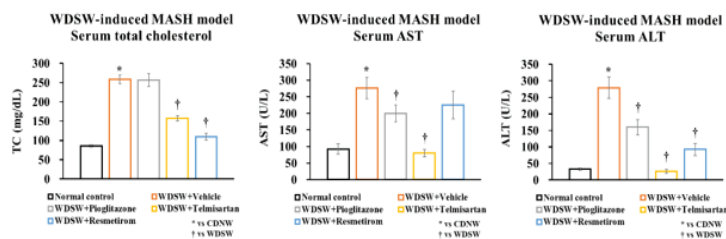
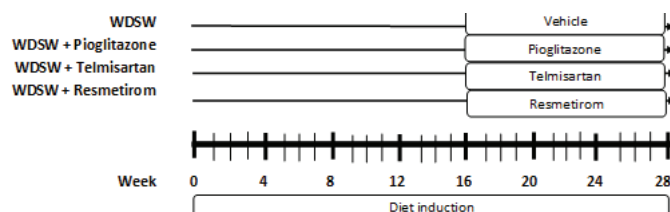
QPS PHARMACOLOGY MODELS

MASH

- ▶ Metabolic dysfunction–associated steatohepatitis (MASH) involves hepatic steatosis, lobular inflammation, and hepatocyte ballooning. The prevalence of MASH is increasing, and MASH with advanced fibrosis is associated with increases in liver-related and overall mortality. The Western diet and sugar water (WDSW)–induced MASH model is used to evaluate the therapeutic effects of a test article.

Study Details

- ▶ Groups of 8 male C57BL/6J mice 8 weeks of age.
- ▶ Mice are fed ad libitum a high-fat, highcarbohydrate Western diet (WD) containing 42% kcal from fat and 0.2% cholesterol. Mice also receive a high fructose-glucose solution. This combination is referred to as Western diet sugar water (WDSW).
- ▶ The feeding period lasts for 28 weeks.
- ▶ Starting from Week 16 to Week 28, mice are treated once daily via oral gavage with vehicle (0.5% CMC), test article, or reference drug.
- ▶ A separate group of five male mice are fed a standard chow diet (CD) with normal drinking water (NW) ad libitum for 28 weeks.
- ▶ Control mice receive vehicle (0.5% CMC) via oral gavage once daily from Week 16 to Week 28.
- ▶ At Week 28, mice are euthanized by an overdose of anesthesia. Blood samples are taken for serum chemistry analysis, and the liver weights are recorded. The livers are harvested for further histopathology analysis.

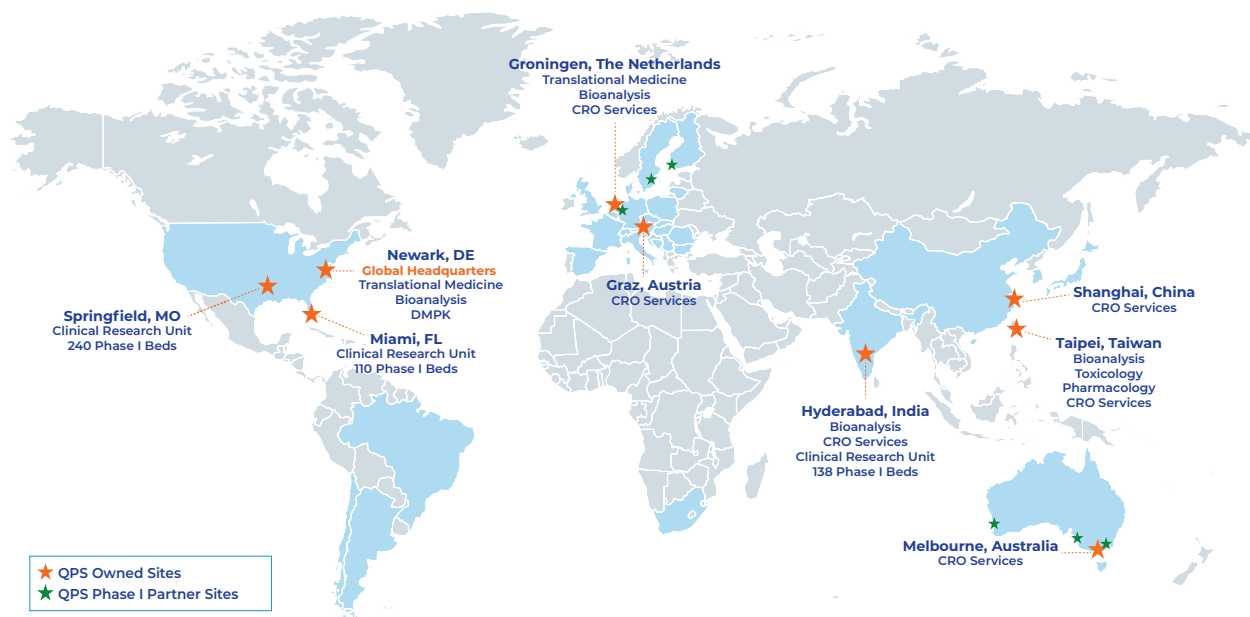


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