

TNBS Induced Colitis: A model of Inflammatory Bowel Disease

Inflammatory bowel disease (IBD) is a chronic inflammatory diseases of humans, namely ulcerative colitis (UC) and Crohn's disease (CD). Colon is predominantly affected (UC and CD) and/or the distal small intestine (CD). Although the exact etiology of these inflammatory bowel diseases (IBD) remains elusive, both immunological and genetic determinants have been identified that are involved in disease pathogenesis.

Induction of Colitis:

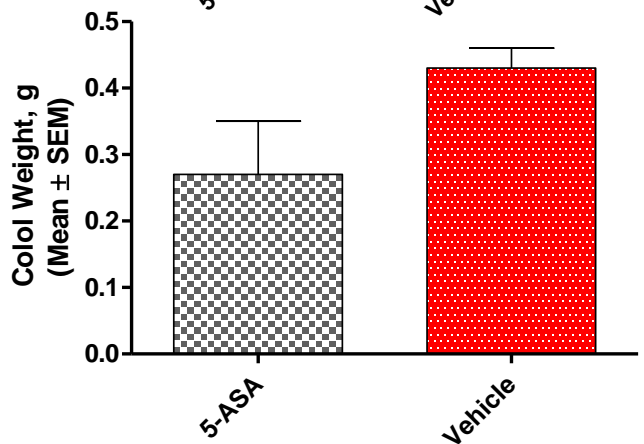
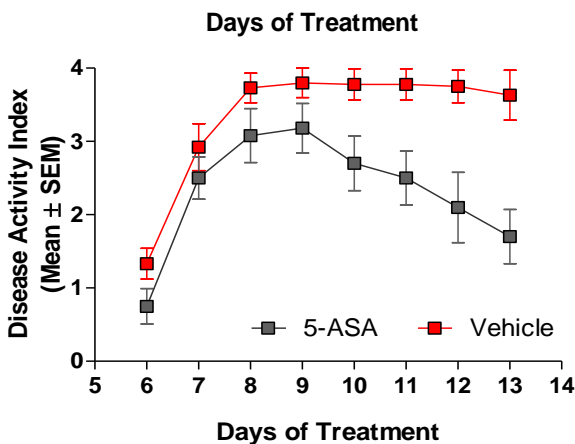
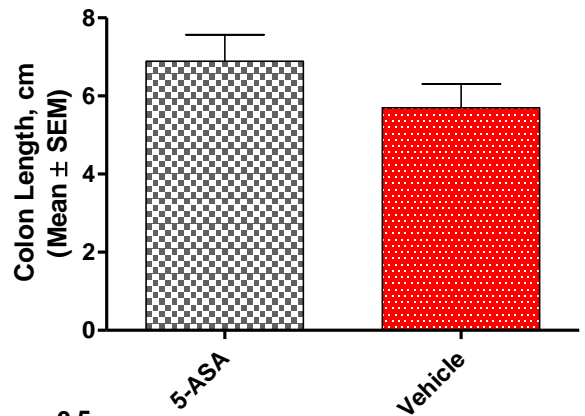
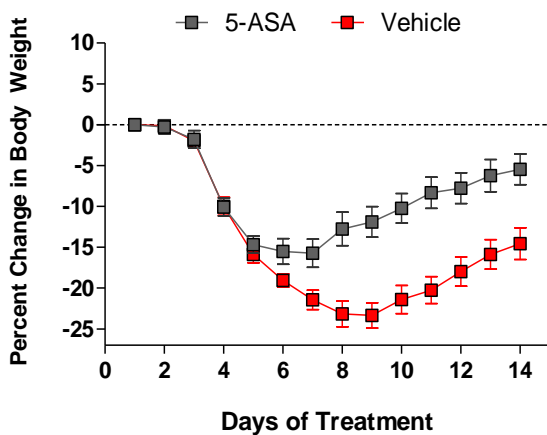
Following acclimation, mice are grouped according to their body weight and challenged intra-rectally with TNBS in 50% ethanol. Control group received 50% ethanol, without TNBS. This model can be used to evaluate therapeutic properties of new drugs and formulations, in a preventive as well as curative approach.

Observation:

- Body weight
- Clinical Score
- Stool consistency and hemocult positivity
- DIA (Disease Activity Index)
- Colon length & weight
- Histology

Report: Report includes detail procedure, appropriate analysis and raw data

Experiment: Species; Mice BALB/c female; n=12/group; Positive control: 5-ASA 100 mg/kg po; vehicle; water



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