

Collagen Induced Arthritis (CIA) Study in Mice

Collagen Induced-arthritis (CIA) is a widely used animal model for rheumatoid arthritis as it shares both immunological and pathological features. DBA/1LacJ strain of mouse develop arthritis when immunized subcutaneously or intradermally with bovine-collagen type II emulsified in complete Freund's adjuvant (CFA) followed by booster injection of CII emulsified in incomplete Freund's adjuvant after 21 days of primary immunization.

Induction of Arthritis

Following acclimation, mice are immunized with bovine collagen type II emulsified with complete Freund's adjuvant (CFA) containing *Mycobacterium tuberculosis H37RA* in equal amounts and injected 100 µl of collagen emulsion by intra-dermal injection at the base of the tail. Booster injections are given on day twenty-one with same amount of type II collagen emulsified with incomplete Freund's adjuvant (IFA). Mice are observed daily and when the average clinical score was achieved, mice were grouped accordingly.

Observation: Clinical score
Body weight & food intake
Paw thickness
Serum collection
Histology of hind paws

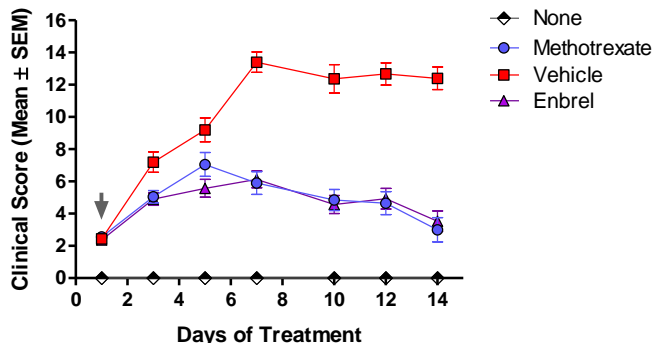
Report: Report includes detail procedure, appropriate analysis and raw data .

Experiment: Species DBA/1LacJ; male; n=15/group; Positive control: Methotraxte 0.5 mg/kg 3x/week, po and Enbrel 10 mg/kg, iv 3x/week

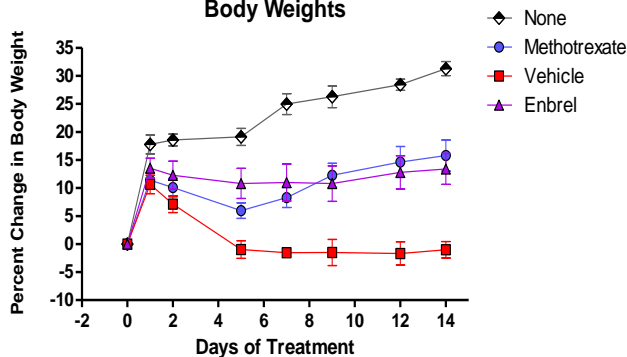
Development of Arthritis



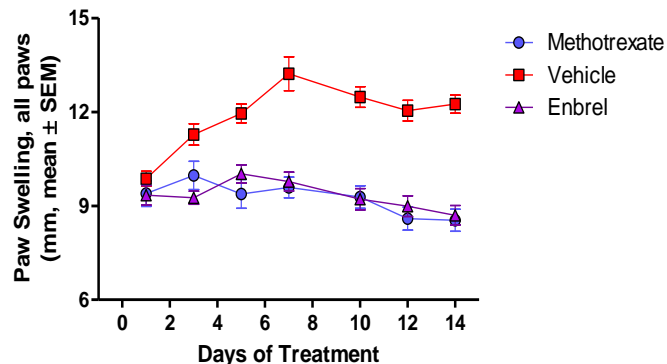
Clinical Score



Body Weights



Paw Swelling-ALL paws



IMPORTANT: Our services are responsive to client needs, customizing protocols, fast results, expert consultation and flexibility. Invitek intends to expand with new therapeutic areas, models, and assays, contact us to discuss your specific needs.