

HYPERSENSITIVITY CHART

TYPE I

ALLERGY (immediate)

IgE

Reaction happens almost instantly, triggered by innocuous foreign substance

Allergic Rhinitis-coughing, sneezing, watery eyes, nasal congestion, Urticaria (hives), Atopic Dermatis (eczema), Allergic Asthma, Anaphylatic shock

This is the type of testing that your doctor, or vet provides through blood or skin prick testing

TYPE II

CYTOTOXIC - ANTIBODY DEPENDANT

IgM or IgG

Antibody binds to antigen on target cell which is actually a host cell that is perceived as foreign

Hemolytic anemia, goodpasture syndrome, cytopenia, nephritis

Blood or saliva testing

TYPE III

IMMUNE COMPLEX

IgG

Antibody binds to antigen forming a circulating immune complex

Lupus, rheumatoid arthritis, serum sickness, vasculitis

Blood or saliva testing

TYPE IV

INTOLERANCE (delayed),
Antibody independant cell mediated hypersensitivity

T-cells

Does not involve antibodies, involves T-cells attracting and activating macrophages and will cause an inflamatory response. There is a delayed reaction

Food intolerances, contact, dermatitis, inflammation gastrointestinal distress

