

Type of Hyper-sensitivity Rxn:	Type I: IgE-mediated (Humoral) A	Type II: Cytotoxic & Cytolytic (Humoral) C	Type III: Immune Complex (Humoral) I	Type IV: Delayed (Cell mediated- t cells) D
Antigen:	Pollen, food, drugs, dust	Cell surface of RBC's	Extracellular fungal, viral, bacterial	Intracellular or extracellular
Antibody:	IgE	IgG, IgM	IgG, IgM	None
Characteristics:	<ul style="list-style-type: none"> • Immediate, anaphylactic rxn • systemic (life threatening) <ul style="list-style-type: none"> ○ within minutes ○ shock follows • localized (wheal and flare) rxn <ul style="list-style-type: none"> ○ Minutes to hrs 	<ul style="list-style-type: none"> • Body makes auto-antibodies against self-cells • Self cells are destroyed 	<ul style="list-style-type: none"> • Tissue damage from antibody-antigen complex • deposit in tissues • causes acute inflammation, damage to tissue &/or blood vessels • (kidneys, skin, joints, BV, lungs) 	<ul style="list-style-type: none"> • Tissue damage without antibody presence • T cells and macrophages destroy antigen • 24-48 hrs before reaction occurs
Examples:	<ul style="list-style-type: none"> • Asthma • atopic dermatitis • food/drug allergies • urticarial • hayfever • angioedema - swelling of eyelids, lips, tongue, larynx, feet, hands 	<ul style="list-style-type: none"> • Blood transfusion reaction • hemolytic anemia 	<ul style="list-style-type: none"> • Autoimmune: <ul style="list-style-type: none"> ○ Lupus ○ Rheumatoid Arthritis ○ Acute glomerulonephritis 	<ul style="list-style-type: none"> • Contact dermatitis <ul style="list-style-type: none"> ○ Restricted to area exposed • transplant rejections