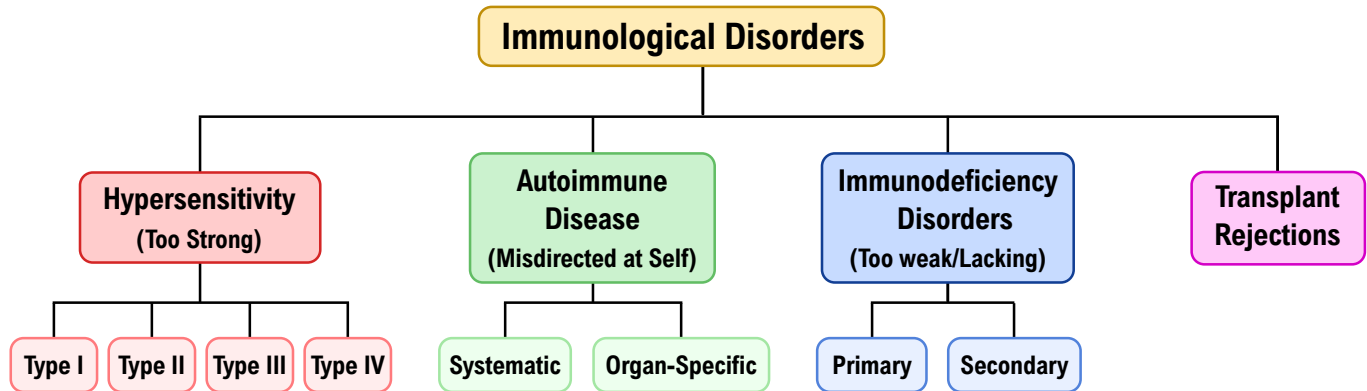


TOPIC: INTRODUCTION TO HYPERSENSITIVITIES

Introduction to Immunological Disorders

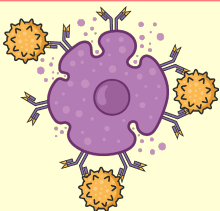
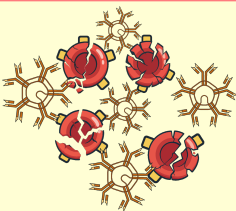
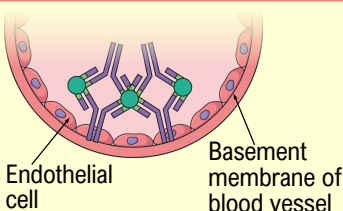
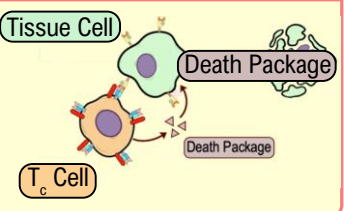
- ◆ **Immunological Disorder:** condition or disease caused by a *dysfunction* of the _____ system.
 - Includes hypersensitivities, autoimmune disorders, immunodeficiency disorders, & transplant rejections.




NOTE: Many autoimmune disorders & transplant rejections result from hypersensitivities.

Overview: Hypersensitivities & Sensitization

- ◆ **Hypersensitivity:** an exaggerated, *harmful*, immune system _____-reaction that occurs *AFTER sensitization*.
 - **Sensitization:** immune system's ____ exposure to an antigen only preps it to react in *subsequent* exposures.
- ◆ We do _____ fully understand why certain individuals develop some hypersensitivities while others do not.

Type I (____llergic Reactions):	Type II (____ytotoxic):	Type III (____mmune Complex-Mediated):	Type IV (____elayed Cell- Mediated):
rapid antibody response to an _____.	antibodies bind antigens on _____-surfaces or in their <i>matrix</i> .	caused by formation of _____ complexes in the body.	response mediated by _____ cells.
			

 Memory Tool: _____.

TOPIC: INTRODUCTION TO HYPERSENSITIVITIES

PRACTICE

Of the four types of hypersensitivity reactions, which type is characterized by a delayed immune response triggered by antigen-specific T cells?

- a) Type I - Allergic reaction hypersensitivity.
- b) Type II - Cytotoxic hypersensitivity.
- c) Type III - Immune-complex mediated hypersensitivity.
- d) Type IV - Cell-mediated hypersensitivity.

PRACTICE

Hannah is allergic to wasp venom. During a picnic with friends, she is stung by a wasp and has an immediate, rapid, life-threatening response. Which type of hypersensitivity is this?

- | | |
|-------------|--------------|
| a) Type I. | c) Type III. |
| b) Type II. | d) Type IV. |