

Module 2 Case Studies

Directions:

- Worth 30 points total.
- Download the attached handout and follow the directions provided.
- Please be succinct in your responses. There is no short answer response that requires more than 2-3 sentences.
- To submit your answers for grading, complete the "Module 1 Case Study Submission" following the directions.

HDNF Case Study:

Background: Susan's blood type is B-. Her first pregnancy is without complications, she gives birth to a baby, Toby, with B+ blood type. A few years later, Susan enjoys another uncomplicated pregnancy and gives birth to her second child, Katie, who has B- blood type. Susan's 3rd pregnancy is more complicated, and she gives birth to another baby girl, Cindy, upon examination appears swollen, pale, and in respiratory distress at birth. Further examination uncovers a swollen liver and spleen and heart irregularities. Shortly after the birth Cindy develops severe jaundice and is diagnosed with Hemolytic Disease of a Newborn (HDN).

Questions:

1. What are Cindy's signs and/or symptoms? (Differentiate them)

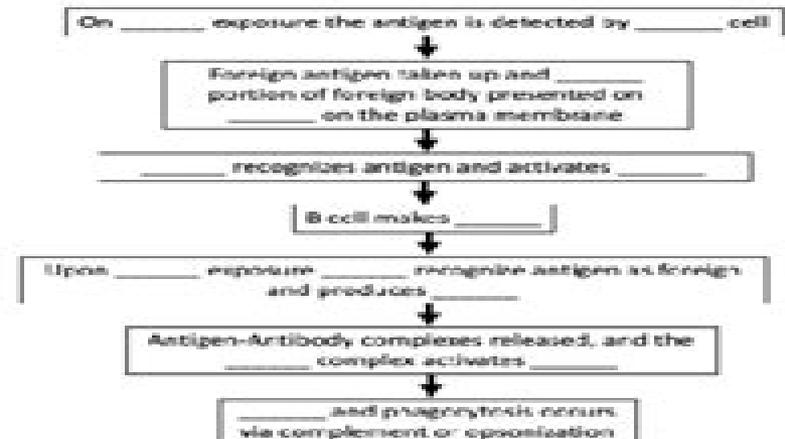
- A. Swollen liver and spleen _____
- B. Heart irregularities _____
- C. Jaundice _____
- D. Respiratory distress _____
- E. Pale _____

2. Why type of hypersensitivity reaction is responsible for Cindy's HDN?

- A. Type 1
- B. Type 2
- C. Type 3
- D. Type 4

3. Fill in the flowchart to explain the pathogenesis of this type of hypersensitivity. Note some words in the word bank may be used more than once.

Word Bank: B cell, first, lysis, Fc region, phagocytized, T helper 2 cell, B cell, IgG or IgM, MHC2, second, complement, APC, autoimmune antibodies



Pathophysiology Case Studies

AW Rasmussen



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