

# 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:

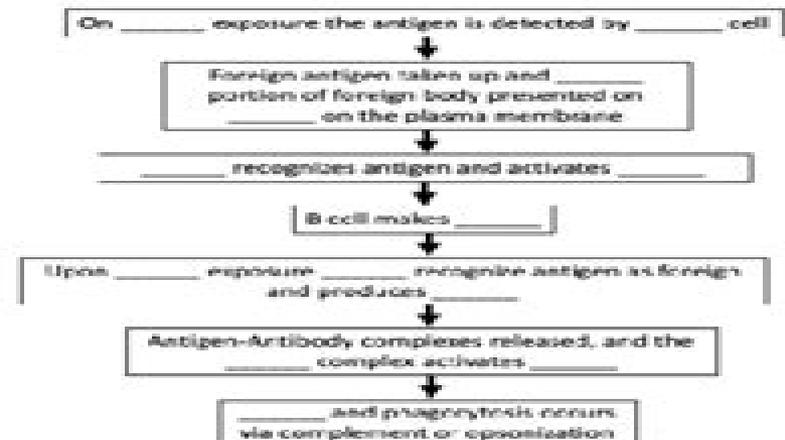
**Background:** Susan's blood type is B-. Her first pregnancy is without complications, she gives birth to a baby, Toby, with B+ blood type. A few years later, Susan enjoys another uncomplicated pregnancy and gives birth to her second child, Katie, who has B- blood type. Susan's 3<sup>rd</sup> pregnancy 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 With Answer

**Kathleen Armour**



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