The background is a dark blue gradient with several white question marks scattered around. There are also three white star icons, each enclosed in a thin white circle. The text 'Time to Quiz' is written in a white, stylized, serif font. 'Time' is on the top line, 'to' is smaller and centered between 'Time' and 'Quiz', and 'Quiz' is on the bottom line in a larger font size.

Time to Quiz

A white right-pointing arrow icon is located to the left of the text box.A white left-pointing arrow icon is located to the right of the text box.

ARE YOU READY?



HEMATOPOIETIC & LYMPHATIC SYSTEM

1. A 20-year-old college student presents with fever, sore throat, and tender lymphadenopathy. Physical examination reveals splenomegaly. Laboratory tests show atypical lymphocytosis and elevated liver enzymes. Which of the following viruses is most likely responsible for this patient's condition?

- a) Influenza virus
- b) Epstein-Barr virus
- c) Human immunodeficiency virus (HIV)
- d) Parvovirus B19

2. A 6-year-old child presents with a rash on the face, which spreads to the arms and legs over the next few days. The child also complains of joint pain. There is no fever, and the rash is not itchy. Which virus is commonly associated with this clinical presentation?

- a) Rubella virus
- b) Herpes simplex virus
- c) Epstein-Barr virus
- d) Parvovirus B19

3. A 25-year-old woman presents with persistent fever, lymphadenopathy, and hepatosplenomegaly. She has a history of primary immunodeficiency. Which of the following viral infections is she most susceptible to?

- a) Influenza virus
- b) Epstein-Barr virus
- c) Cytomegalovirus (CMV)
- d) Parvovirus B19

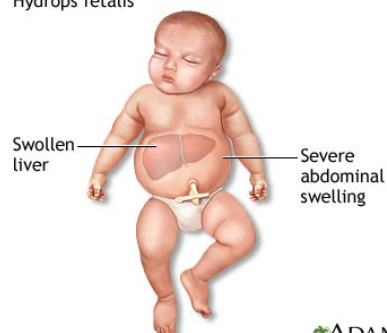
4. A 10-year-old child with sickle cell disease presents with sudden onset of severe anemia. The child has a history of frequent respiratory infections. Which virus is most likely responsible for this acute exacerbation?

- a) Influenza virus
- b) Epstein-Barr virus
- c) Cytomegalovirus (CMV)
- d) Parvovirus B19

5. A 30-year-old pregnant woman presents with a history of exposure to a child with fifth disease. She is concerned about the potential impact on her pregnancy. Which of the following complications is associated with transplacental transmission of parvovirus B19 during pregnancy?

- a) Congenital rubella syndrome
- b) Congenital varicella syndrome
- c) Fetal alcohol syndrome
- d) Hydrops fetalis

Hint Hydrops fetalis



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HEMATOPOIETIC & LYMPHATIC SYSTEM

6. A 16-year-old boy presents with a rash on his face that resembles a "slapped cheek." He also complains of joint pain. Which of the following viruses is most likely responsible for his clinical presentation?

- a) Rubella virus
- b) Herpes simplex virus
- c) Epstein-Barr virus
- d) Parvovirus B19

7. A 40-year-old woman presents with persistent arthralgia following an episode of acute illness characterized by fever and rash. She reports exacerbation of symptoms with heat and exercise. Which virus is commonly associated with this clinical course?

- a) Rubella virus
- b) Herpes simplex virus
- c) Epstein-Barr virus
- d) Parvovirus B19

8. A 50-year-old man presents with hepatosplenomegaly and persistent fever. He has a history of chronic lymphocytic leukemia. Which of the following viral infections is he most susceptible to?

- a) Influenza virus
- b) Epstein-Barr virus
- c) Human herpesvirus 8 (HHV-8)
- d) Parvovirus B19

9. A 15-year-old girl presents with fever, malaise, and headache. Physical examination reveals tender lymphadenopathy and splenomegaly. Laboratory tests show atypical lymphocytosis. Which of the following viral infections is most likely responsible for her symptoms?

- a) Influenza virus
- b) Epstein-Barr virus
- c) Human papillomavirus (HPV)
- d) Parvovirus B19

10. A 60-year-old man presents with persistent fever, night sweats, and weight loss. He has a history of HIV infection and is not on antiretroviral therapy. Which of the following viral infections is he most susceptible to?

- a) Influenza virus
- b) Epstein-Barr virus
- c) Cytomegalovirus (CMV)
- d) Parvovirus B19



HEMATOPOIETIC & LYMPHATIC SYSTEM

11. A 45-year-old woman presents with a history of recurrent episodes of transient aplastic crisis. She has a known diagnosis of sickle cell disease. Which virus is most likely responsible for her condition?
- Influenza virus
 - Epstein-Barr virus
 - Cytomegalovirus (CMV)
 - Parvovirus B19
12. A 35-year-old pregnant woman presents with a history of fetal demise at 16 weeks of gestation. She reports a recent illness characterized by fever and rash. Which virus is most likely responsible for the fetal demise?
- Rubella virus
 - Herpes simplex virus
 - Epstein-Barr virus
 - Parvovirus B19
13. A 55-year-old man presents with jaundice and abdominal pain. He has a history of chronic liver disease. Laboratory tests show elevated liver enzymes and evidence of recent infection with a virus. Which virus is most likely responsible for his symptoms?
- Hepatitis A virus
 - Hepatitis B virus
 - Hepatitis C virus
 - Parvovirus B19
14. A 70-year-old woman presents with an acute exacerbation of chronic lymphocytic leukemia. She complains of fatigue, weakness, and easy bruising. Laboratory tests show a sudden fall in red blood cell count and hemoglobin levels. Which virus is most likely responsible for her acute exacerbation?
- Influenza virus
 - Epstein-Barr virus
 - Cytomegalovirus (CMV)
 - Parvovirus B19
15. A 5-year-old child presents with a rash on the face that spreads to the arms and legs over the next few days. The child complains of joint pain. Which virus is commonly associated with this clinical presentation?
- Rubella virus
 - Herpes simplex virus
 - Epstein-Barr virus
 - Parvovirus B19



HEMATOPOIETIC & LYMPHATIC SYSTEM

Key answers

1. b) Epstein-Barr virus
2. d) Parvovirus B19
3. b) Epstein-Barr virus
4. d) Parvovirus B19
5. d) Hydrops fetalis
6. d) Parvovirus B19
7. d) Parvovirus B19
8. b) Epstein-Barr virus
9. b) Epstein-Barr virus
10. c) Cytomegalovirus (CMV)
11. d) Parvovirus B19
12. d) Parvovirus B19
13. d) Parvovirus B19
14. d) Parvovirus B19
15. d) Parvovirus B19