

**Wake Forest University Baptist Medical Center
Winston-Salem, NC 27157
Blood Bank Rotation – Final Exam #1**

CLS Final Exam Supplementary Material

14. Which one of the following histories represents an acceptable donor?

	<u>Hct</u>	<u>BP</u>	<u>Temp</u>	<u>Pulse</u>	<u>Age</u>	<u>Sex</u>
a.	39	110/70	99.8	75	40	F
b.	37	135/85	98.6	80	35	M
c.	41	90/50	99.4	65	65	M
d.	45	115/80	98.6	102	17	M

16. Refer to the following data:

Forward Group			Reverse Group		
<u>Anti-A</u>	<u>Anti-B</u>	<u>Anti- A₁ Lectin</u>	<u>A₁ cells</u>	<u>A₂ cells</u>	<u>B cells</u>
4+	neg	4+	neg	2+	4+

The ABO discrepancy seen above is most likely due to:

- a. anti-A₁
- b. rouleaux
- c. anti-H
- d. unexpected IgG antibody present

Questions 17-19 refer to the following blood panel:

Cell	D	C	E	c	e	M	N	S	s	Le ^a	Le ^b	P ₁	K	k	Fy ^a	Fy ^b	Jk ^a	Jk ^b	Xg ^a	Serum			CC	
																				IS	37C	AHG		
1	0	+	0	+	+	+	0	0	+	0	+	0	0	+	0	+	0	+	+	0	0	1+		
2	+	+	0	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	+	0	0	0	1+	
3	+	+	0	0	+	+	+	+	+	0	+	+	0	+	0	+	0	+	+	0	0	0	1+	
4	+	0	+	+	0	+	+	+	0	0	+	0	+	+	0	+	+	0	+	0	0	1+		
5	0	0	+	+	+	0	+	0	+	+	0	+	0	+	+	0	0	+	+	0	0	1+		
6	0	0	0	+	+	+	0	0	+	0	0	+	0	+	0	0	+	0	+	0	0	1+		
7	0	0	0	+	+	+	+	0	+	+	0	+	+	0	0	+	+	+	0	0	0	1+		
8	0	0	0	+	+	+	0	0	+	0	+	0	0	+	+	0	+	+	+	0	0	1+		
9	0	0	0	+	+	+	+	+	0	0	0	0	0	+	+	+	+	0	+	0	0	1+		
10	0	0	0	+	+	+	0	+	+	0	+	0	0	+	+	0	+	0	+	0	0	1+		
Patient																					0	0	0	1+

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30. The following results were obtained on a patient's blood group and type during routine ABO and Rh testing:

Cell Testing

Anti-A = neg
Anti-B = 4+
Anti-D = neg
Autocontrol = neg

Serum Testing

A₁ cells = 4+
B cells = 2+

Select the course of action to resolve this problem:

- Draw a new blood sample from the patient and repeat all test procedures
 - Test the patient's serum with A₂ cells and the patient's red cells with anti-A₁ lectin
 - Repeat the ABO antigen grouping using three-time washed saline-suspended cells.
 - Perform antibody screening procedure at immediate spin using group O cells.
46. Refer to the following data:

Hemoglobin 7.4g/dL
Reticulocyte count 22%

Direct Antiglobulin Test

Polyspecific = 3+
IgG = 3+
C3 = neg

Antibody Screen – IAT

SC I = 3+
SC II = 3+
Auto = 3+

Which clinical condition is consistent with the lab results shown above?

- cold hemagglutinin disease
 - warm autoimmune hemolytic anemia
 - penicillin-induced hemolytic anemia
 - delayed hemolytic transfusion reaction
47. A sample gives the following results:

Cells with

Anti-A = 3+
Anti-B = 4+

Serum with

A₁ cells = 4+
B cells = negative

Which lectin should be used first to resolve this discrepancy?

- Ulex europaeus*
- Arachis hypogaea*
- Dolichos biflorus*
- Vicia graminea*