

Name

Type And Screen

1. For each of the following forward reactions state what significance of the result is. For example, a cell is tested with anti-B and gives a positive reaction. The significance is that this indicates the presence of the B antigen on the unknown red cell.

Typing serum reaction		Significance
anti-A	4+	
anti-B	0	
anti-A,B	4+	
anti- A	0	
anti-B	3+ mf	
anti-AB	0	

2. For each of the following reverse reactions state what significance of the result is.

Reverse cell Reaction		
A1 cell	4+	
B cell	0	
A1 cell	0	
B cell	4+	
A2 cell	1+	

3. Patients with positive antibody screens are not candidates for a Type and Screen protocol. State WHY they are not candidates and WHAT additional testing must be performed to ensure safe blood for transfusion.

4. For each of the following antibody screen results:
- State the interpretation
 - State the antibody class detected
 - State whether the patient is a Type and Screen candidate or not.

	Screen 1				Screen 2				Screen 3			
	IS	37C	AHG	CK	IS	37C	AHG	CK	IS	37C	AHG	CK
a	0	0	0	2+	0	0	0	2+	0	0	0	2+
b	0	2+	3+		0	0	0	2+	0	0	0	2+
c	2+	1+	0	2+	0	0	0	2+	1+	2+	0	2+
d	0	0	2+		0	0	4+		0	0	0	2+

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5. Based on your knowledge of blood grouping reactions interpret the following. **DO NOT USE YOUR TEXTBOOK OR OTHER RESOURCES.** You should, by now, be able to be given blood group typing reactions, evaluate whether positive or negative, the significance of positive and negative, to determine the interpretation. Each time you look at a tube you cannot simply grade the reaction, you must think about **WHY** the tube is positive or negative. Does it indicate antigens present/absent on cells? antibodies present or absence in serum? If you are unable to do this activity without references, study the appropriate material and return to this item.

anti-A	anti-B	anti-A,B	anti-D	D ctrl	Du	Du ctrl	A1 cell	B cell	Interp
0	0	0	4+				4+	4+	
4+	0	4+	0	0	0	0	0	4+	
0	4+	4+	0	0	3+	0	4+	0	
4+	4+	4+	4+	0			0	0	

6. Compare and contrast the purpose of the D control for an AB positive individual versus the D control for a D negative person. I expect these comments to illustrate a high level of understanding of the concepts. Review your ABO/D typing laboratory if you still lack understanding of this concept.