


# Human Blood Cell Typing

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Our organisms manufacture antibodies continuously to deal with the various environmental challenges. Among others, when foreign and/or self proteins/peptides contribute to the body's health, they become antigens. Antigens are identifiable particles of proteins and polysaccharides from a substance that bring immunogenicity from cells/plasma proteins that recognize them and antibodies that circulate through the bloodstream.

## Model 1 – Red Blood Cells and Antibodies

	Person with Blood Type A	Person with Blood Type B	Person with Blood Type AB	Person with Blood Type O
Cells with attached antigens				
Antibody present				
Cells in the presence of anti-A antibody				
Cells in the presence of anti-B antibody				

1. Blood types in the human population are characterized by their presence or absence of **antigens** on their surfaces and their **antibodies**.

a. How many of Model 1, body using blood types are found in the human population?

b. Which blood is used in Model 1 to represent anti-A antigen?

c. What relationship is type A with blood and how is type B and blood type?

# Pogil Answer Key Human Blood Cell Typing

**Judd E. Hollander**



## **Pogil Answer Key Human Blood Cell Typing:**

### **A Simplified Visible/Near-Infrared Spectrophotometric Approach to Blood Typing for Automated Transfusion**

**Safety**, 2004 A new technique has recently been introduced for objectively quantifying the agglutination of red blood cells in a blood typing procedure using ultraviolet visible spectroscopy The technique involves analyzing the spectra of red blood cell suspensions in saline between the 665 nm and 1000 nm range where the relative slope between a control and antibody treated sample are entered into a simple algorithm to form a so called agglutination index A I The proposal of this research is to simplify the detection method by replacing the spectral imaging of the diode array spectrophotometer with a discrete series of LED and photodiode pairs within the wavelength range of interest in the forward scattering direction The scattering theory involved in this phenomenon is investigated and a simplified experimental sensor is designed and evaluated The resulting experimentation shows a significant recreation of the spectrophotometer results by the simplified design with a promising potential for improvement Optoelectronic design considerations are discussed for maximizing the sensitivity of this technique for use in a cost effective automated device for transfusion safety **Human Blood Analysis** M. K.

Bhasin, Surinder Nath, V. N. Sehgal, 2007 Blood a biological material is the most common evidence found in all types of forensic investigations There are two major areas of investigation Testing for biological evidence of kinship in civil cases and characterization of blood stains in criminal cases Blood groups typing is still the most commonly using immunological method employed by forensic serologists for the individualization of blood Certain enzymes and blood proteins exist in multiple genetically different forms In case of enzymes these forms are known as Isoenzymes The discovery of HLA polymorphism not only involves the variable alleles in individual loci but also the haplotypes of neighboring lined loci which increases the discrimination potential for individualization and association of some HLA antigens with particular ethnic groups thereby making them important from the forensic point of view The molecular biology has provided a more reliable techniques of DNA fingerprinting which has revolutionized the forensic analysis of blood evidence in crime investigation and today it is possible to provide valuable information in cases where scarce or and degraded amount of crime scene material could have been a limiting factor Population studies and generation of DNA databases and quality systems are further advancements in the forensic investigation of blood evidence The blood analysis proves useful for the forensic serologist in establishing the reliability of the results in any court of law

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