

## WHAT ARE PLASMA PROTEIN THERAPIES?

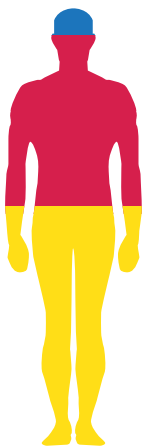
### Plasma protein therapies are:

- Lifesaving biologics
- Treatment for rare diseases
- Replacement therapies
- Plasma-derived (recombinant alternatives available for several bleeding disorders)
- Infused or injected, some can be home-infused

### THE FOLLOWING APPLIES TO PLASMA-DERIVED THERAPIES:

Plasma is the straw-colored liquid portion of blood that remains after red blood cells, white blood cells, and platelets are removed.

### STARTING MATERIAL



#### YOUR BLOOD IS:

**55%** PLASMA  
**44%** RED BLOOD CELLS  
**1%** WHITE BLOOD CELLS & PLATELETS

#### YOUR PLASMA IS:

**92%** WATER  
**7%** PROTEINS  
**1%** OTHER SOLUTIONS

### TIME TO MANUFACTURE THERAPIES

- » ALBUMIN
- » ALPHA-1 PROTEINASE INHIBITOR
- » C1 ESTERASE INHIBITOR
- » COAGULATION FACTORS
- » IMMUNOGLOBULINS

