

# Lesson #4 Activity

## Corneal Transplant Matching Worksheet

### Directions:

Match each of the available donated corneas on the left with a transplant recipient on the right. Note that one person will not get a transplant.

Use these guidelines when making your decision:

1. The younger the patient, the higher the cell count they will need. The cells must last a lifetime!
2. The graft size in the donor cornea must be greater than or equal to the cornea size of the recipient or it won't fit.

A. Donor Age: 19 years  
Cell Count: 3,198 cells/mm<sup>2</sup>  
Graft size: 7.7mm

B. Donor Age: 55 years  
Cell Count: 2,250 cells/mm<sup>2</sup>  
Graft size: 8.0mm

C. Donor Age: 40 years  
Cell count: 2,400 cells/mm<sup>3</sup>  
Graft size: 7.0mm

1. Sally - Age: 3 months  
Diagnosis: Peter's Anomaly  
Cornea size 6.5mm

2. Tim - Age: 17 years  
Diagnosis: Keratoconus  
Cornea size: 8.5mm

3. Sue - Age: 30 years  
Diagnosis: Fuch's dystrophy  
Cornea size: 7mm

4. John - Age: 40 years  
Diagnosis: scar from old eye injury  
Cornea size: 7mm

**Goal:** Draw a line to match available corneas to transplant recipients.

Which recipient does not get a transplant: \_\_\_\_\_

For each example, why did you assign this cornea to this patient?

A. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_