

CORNEAL TRANSPLANTS Any number of events, from a corneal disease to irreparable damage from trauma, could generate the need for a corneal transplant. During a transplant, the surgeon delicately removes the damaged or diseased cornea from the patient's eye using surgical instruments. The surgeon replaces the old comea with the surgeon replaces the old comea with the donated comea, which is prepared to fit instruments.

perfectly into the patient's eye.

The surgeon uses very fine stirches to The surgeon uses very fine stirches to the new comea into the patients eyes, the new comea into the patients eyes, that bonded completely obtained and surgeon can also periodically adjust surgeon can also periodically adjust into the surgeon the second the second stirches to the second the rhough it. The the patient to second the rhough it. The stirches are 28 microns (m) thrick (See handout on microns to see just how st

> Please locate the glasses on the table at these glasses which simulate corneal bl these glasses which simulate comeal bil decide if you would want a transplant if STATION 2 WORKSHEET

THE FACTS ABOUT ORGAN, EYE & TISSUE DONATION

TRANSPLANTATION IFP

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TISSUES, BONE & SKIN Here are several examples of how one donor can help save and heal the lives of many:

No -

the lives of many: Methods of the main (ACL) surgery (Non bone Tendon) Anterior cruciate ligament (ACL) surgery (Non bone Tendon) anterior cruciate ligament (ACL) reconstruction is surgery (Lister ment common the ligament (Nur), surgery (Non bone Tendon) the ligament (Nur) and the first structures that many low (ACL). The sent structures that involve (nnma), physical curving and (Impanel ad the Nurgery (Non bone Tendon) the ligament of the first prevents the low (leg low) (Non bone (Non Mole (Non Mole (Non Anter the NCL) We can be an expression of the first prevents the form of the first work the ligament of the first prevents the low (leg low) (Non House (Structure), the torn ligaments can an ew ACL work the lissue usually a non-bone tendon graft com-estored ACL, reconstructure (Machined Gast) Spinal Fusion Surgery (Machined Gast) Spinal Fusion Surgery (Machined Gast)

1. re20% ACL records you a how a more speed and travelse usingly a how a more speed on bone graft. toom graften bone graft. Bone tendon bone graft. Bone tendon bone graft (Machined Graft) (Machined Kuro) (Machined Graft) (Machined Graft) (Machined Graft) (Machined Kuro) (Machined

EXERCISE

BACKGROUND OF DONOR Ayoung man who lives in Derwer, Colorado suffers a brain injury caused by a motorscycle accident. He is pronounced brain dead at a local hospital and his heart is move available for transplant. He is 30 years Id 6, fest tall approximately 155 pounds. You have 6 people who are potential matches to the donor. Using the criteria listed blow, determine which candidate is best to receive this heart.

Can team Are there any candidates that are simply the wrong size to receive this organ? If so, you must rule them out and they must continue to wait for a better match. REMEMBER: A person's heart is would be tize of their closed fat. Imagine how large each of the candidates hearts would be. The size of their closed fat. Imagine how large each of an successful transplant.

Age Are the remaining candidates too young or too old to receive this organ? If so, you must rule them out and they must continue to wait for a better match.

Geographic location Look at the region map and determine which region the donor is in. Do all your remaining candidates live in the same or close region? If not, they must wait for a heart to become available in their region.

REMEMBER: A person can be listed in more than one region. Transplant candidates are often asked to live within a few miles of the hospital while on the waiting list.

procedure? If they aren't, They must commune to work. REMEMBER: A person who has an active infection would be considered high risk for receiving a transplant and be temporarily removed from the waiting list. Once the infection has been successfully treated, the patient could again be listed for transplant.

Are all of the remaining candidates healthy enough to endure the transplant procedure? If they aren't, they must continue to wait.

REMEMBER: A person is never too old or too young to donate or receive a tra Doctors will do their best to match the age of the recipient with the donor.

nce not emotion.

Base your dea

BACKGROUND OF DONOR

Current state of health

) Urgency of need Of th

CRITERIA







AGE: HEIGHT: WEIGHT: LIVES IN:

(AL INFORMATION) man at Galveston Centra "Mais team at

Hiah Sch Mother Husband works in sales and travels 3-4 days per week Must pay a Home Health Aide to help care for and children when Husband is away Has an enlarged heart Has been on the Transplant Waiting List for 5 Member of the tennis team and dra
Has 10-year-old twin sisters
Parents both work at Wal-Mart Parents both work at wai-mart
Has damaged heart valves from a strep infer when he was little
Has been on the Transplant Waiting List for 3 months infection

ES IN:

HEIGHT: WEIGHT: LIVES IN:

5

INTO IN: A Constraint of the second s

FRSONAL INFORMATION



PERSONALI INFORMATION: Senior at the University of Colorado, Boolder After graduation, plans on becoming a counse for at-risk teens Only child His heart disease is advancing rapidly Has been placed on the Transplant Waiting Lis immediate heart transplant snowboarding with his girlfri g treated with antibiotics for

onths old

ERSONAL INFORMATION: Has 2 healthy siblings, ages 5 and 3 Father, Ed, is stationed at Fort Carson Army Base Mother, Candy, works part-time in a dentist office She was born with a heart defect which requires transmothent equires transplant las been on the Transplant Waiting I

LIVER

HOW IT WORKS HOW IT WORKS THE LIVER is one of the largest and most complex of and in the duly the shifts about 3.3 pounds in aduly the shifts about 3.3 pounds in aduly the shifts about 3.3 pounds in aduly the shifts about 3.4 pounds in aduly the The liver has numerous functions that are necessary for life. The life helps process carbolyne life the life and processes nutrients absorbed from food in the intestines absorbed from them into materials that the body necessfor life. needs for life. For shample, it makes the factors that the shood needs for clotting, it also to read soon too'c substances in the food such as drugs and alcohol. The liver is also responsible for the metabolism of

Common Diseases THAT MAY LEAD TO

TRANSPLANTATION CIRRHOSIS Circle Holest Microsoft refers to scaring of the liver. Scar tissue forms because of injury or long-tem disease. It replaces healthy tissue. Scar tissue cannot do what healthy liver solution energy for when you need it. Scar tissue also blocks the normal flow or blood threads in liver. Causes of cirrhosis of the liver include Hepatitis Cinfection and long-tem al colonal abuse. Raimary Biliary Cirahosis Permanent Billander Conservations Ander de Vitte sion progressive destruction of the small bile duct bile canalocul bilin the liver. When these ducts are damaged, billowidd up in the liver (anderson) over sime damages the tissue risk can lead sevously thought to be a ran- in strain game to though to be a ran-tion of the strain strain lead sevously thought to be a ran- in strain game to though to be a ran-tion of the strain strain lead sevously thought to be a ran- in



He is currently bei a blood infection ISABELLA AGE: 6 months HEIGHT: 20" WEIGHT: 5 lbs. 3 oz. LIVES IN: Colorade "