

Decision: Donation



A School Program that Gives the Gift Of Life



Organ/Tissue Donation Program for Schools



Decision: Donation



A School Program that Gives the Gift Of Life



Organ/Tissue Donation Program for Schools



Acknowledgements

This model organ and tissue donation education project is a part of the U. S. Department of Health and Human Services Secretary Tommy G. Thompson's Gift of Life Donation Initiative to encourage and enable Americans to donate the gift of life.

Special appreciation is extended to members of the Expert Panel on Organ and Tissue Donation that was convened in February 2002 to review existing instructional materials and offer recommendations on developing these model materials. These dedicated individuals have repeatedly and generously offered their time and their expertise to this project.

Gloria Garcia Bohrer – Former Director, Public Relations, OneLegacy, A Transplant Donor Network, Los Angeles, California

A.O. Brad Bradshaw – Executive Director, American Driver and Traffic Safety Education Association, Indiana University of Pennsylvania, Indiana, Pennsylvania

Kay Butler – Project Director, Say Yes – An organ and tissue transplant education program, Howard University, Washington, DC

Gary Childress – Chairman, Lisa Landry Childress Foundation, Dallas, Texas

Rhonda Gaines – Community Education Specialist, Washington Regional Transplant Consortium, Falls Church, Virginia

Carol D. Hardin – Middle School Coordinator, Fairfax County Public Schools, Annandale, Virginia

Fred Johnson – Former President, National Science Teachers Association, Cordova, Tennessee

Jason King – Manager, Public Affairs, American Association of Motor Vehicle Administrators, Arlington, Virginia

Diane M. Lewis – Director, Project Team Life, Oklahoma Organ Sharing Network, Oklahoma City, Oklahoma

Lin Johnson McGaw – Director, Professional Services, United Network for Organ Sharing, Richmond, Virginia

Susan B. McHenry – Former President, National Association of Emergency Medical Services Directors; Emergency Medical Services Specialist, National Highway Traffic Safety Administration, Washington, DC

Henry Milne – Curriculum Developer, National Science Resources Center, Smithsonian Institution, Washington, DC

Mary Nachreiner – Physical Therapist, donor mother of daughter for whom Wisconsin's "Kelly's Law" is named, Sauk City, Wisconsin

William D. Pullen – Driver Education Consultant, Baltimore County Public Schools, Towson, Maryland

Margaret J. Schaeffer – Former Director of Organ Procurement, Washington Regional Transplant Consortium, Washington, DC, donor mother

Merry L. Smith – Community Affairs Coordinator, Mid-America Transplant Services, donor mother, St. Louis, Missouri

Lois J. Teesdale – Supervising Editor for Careers and Technology, Prentice Hall, Glenview, Illinois

Randall R. Thiel – Alcohol and Traffic Consultant, Wisconsin Department of Public Instruction, Madison, Wisconsin

Joseph Villani – Deputy Executive Director, National School Boards Association, Arlington, Virginia; former Associate Superintendent, Montgomery County Public Schools, Rockville, Maryland

Acknowledgements

Many from the field of organ and tissue donation and transplantation have provided inspiration and support for this project. Appreciation is extended to the following organizations for their creativity in the field of donor education and their generosity in sharing materials with the developers of this guide:

Lisa Landry Childress Foundation

The Lisa Landry Childress Foundation was established in 1995 to honor the memory of Lisa, wife of Gary Childress and mother of Christina, and youngest daughter of the late Dallas Cowboy Coach Tom Landry and Mrs. Tom Landry. The Foundation has developed a comprehensive curriculum—Pass It On®—that provides an in-depth study of organ and tissue donation and transplantation in a user-friendly format that enables teachers to quickly locate information appropriate to the age level of their students and their content area. This curriculum includes the award-winning videos *Pass It On I and II*.

www.passitonforlife.org

Wisconsin Donor Network

The Wisconsin Donor Network is the organ procurement organization supporting the transplant community in eastern Wisconsin. Guided by an advisory board consisting of members drawn from the community and affiliated transplant centers, the network serves 2.2 million people in a 10-county region. In addition to recovering organs for transplant, the Wisconsin Donor Network provides public and professional education about the tremendous need for organ and tissue donors.

www.wisdonornetwork.org

OneLegacy, A Transplant Donor Network

OneLegacy, A Transplant Donor Network is an organ procurement organization working with the 14 transplant centers and 225 donor hospitals of Southern California. OneLegacy has developed an organ and tissue donation education curriculum—Discoveries—an innovative, award-winning multidisciplinary school program designed to expose students in grades 7-12 to scientific advances in the field of organ donation and transplantation. Designed and created by accredited educators, Discoveries complements and enhances existing school curricula and includes a comprehensive educational video and teaching guide.

www.onelegacy.org

Acknowledgements

Oklahoma Donor Coalition

Project Team Life is a curriculum program on organ and tissue donation and transplantation sponsored by the Oklahoma Donor Coalition. The curriculum development, underwritten by the Oklahoma Organ Sharing Network, was done by a team of Oklahoma educators and representatives from the Oklahoma Organ Sharing Network, American Red Cross Tissue Services, and the Oklahoma Lions Eye Bank. The project was awarded a three-year Federal grant by the Health Resources and Services Administration of the U.S. Department of Health and Human Services. The Project Team Life curriculum kit consists of a comprehensive curriculum guide containing teaching materials for grades K-12, videotapes, an interactive computer program, story books, transparencies, a music CD, and hands-on material such as anatomy aprons and cornea blindness glasses. The materials were created to meet the requirements for the Oklahoma State-mandated curriculum. Project Team Life utilizes multiple intelligences and is grounded in brain-based research design.

www.oosn.com

Gift of Hope Organ & Tissue Donor Network

Gift of Hope Organ & Tissue Donor Network is an organ procurement organization that coordinates organ and tissue donation in the northern three quarters of Illinois and northwest Indiana, serving 185 hospitals and more than 11 million residents. Gift of Hope Organ & Tissue Donor Network, the National Kidney Foundation of Illinois and their partners with the Illinois Coalition on Donation educate more than 25,000 Illinois high school students each year through the *Share Your Life. Share Your Decision* curriculum. Developed in 1999 and taught in the classroom by specially trained volunteer speakers, Share Your Life. Share Your Decision is a 16-minute video with accompanying teacher's discussion guide and student workbook. The video shares the stories of four teens, their families, and their life-changing personal experiences with organ donation or transplantation.

www.robi.org

State of Missouri Organ Donation Advisory Committee

The Organ Donation Advisory Committee assists the Missouri Department of Health and the Department of Elementary and Secondary Education in the development of an organ donor awareness programs to educate the general public on the importance of organ donation and establishes a statewide organ donor registry within the Department of Health. The Organ Donation Advisory Committee works to reduce the gap between the need for donated organs and the available supply.

www.gov.state.mo.us/boards/cgi/boards.cgi?FUNCTION=DESC&BOARD=ORGAN

Acknowledgements

Indiana Organ Procurement Organization

The Indiana Organ Procurement Organization (IOPO) provides informational, educational materials about organ, tissue, and eye donation. Indiana law requires teens to be taught about organ donation in school. With the help of educators, IOPO has created a comprehensive guide for teaching teens about organ, tissue, and eye donation: the Chalk One Up for Life education package. IOPO provides teacher's guides, complete with a video, lesson plans, and suggested activities. In conjunction with a Fort Wayne, Indiana, TV station, IOPO has developed the widely-distributed video *Christopher*. IOPO also seeks to educate the general public about organ donation through newspaper articles and inserts, radio commercials, and informational sheets.

www.iopo.org

New Mexico Donor Services

New Mexico Donor Services is an organ procurement organization serving the State of New Mexico and is the link between donors and patients awaiting life-saving transplants.

www.nmdonor.org

LifeGift Organ Donation Center

LifeGift Organ Donation Center recovers tissues and organs for individuals needing transplants in west, north, and southeast Texas. LifeGift staff members and volunteers work with donor families and transplant recipients as well as educate the public about the importance of organ and tissue donation.

www.lifegift.org

James Redford Institute for Transplant Awareness

The James Redford Institute is a nonprofit organization dedicated to educating the public about the need for organ and tissue donation through film, educational outreach, and the web.

www.jrifilms.org

Gratitude also is extended to the organ procurement organization community and other organizations dedicated to the goal of providing donation education in communities throughout the country. Special thanks to Pat Kornick of CORE (Center for Organ Recovery & Education)—www.core.org—and Alex McDonald of Intermountain Donor Services—www.idslife.org—for their willingness to spend time sharing their perspectives on educating high school students about organ and tissue donation.

Table of Contents

I. INTRODUCTION	11
II. HOW TO USE THIS GUIDE	15
III. BACKGROUND	21
A. Overview of Organ and Tissue Donation	21
The Transplant Process	21
Common Questions and Misconceptions	25
Brain Death	29
B. Science	30
Transplantable Organs	30
Transplantable Tissues	37
Medical Applications of Donated Tissues	38
Types of Donors	39
Rejection	40
Matching Donors With Recipients	41
The Waiting List	42
C. Donation Issues	44
Religious Views on Donation	44
Minority Health Issues	50
Organ and Tissue Donation at a Glance	51
Transplant Process Chart	52
IV. LESSON ACTIVITIES	53
Donation Lessons Flowchart	53
A. Core Lesson: Share Your Life. Share Your Decision	55
B. Biology Lesson: Finding a Match—A Simulated Blood-Typing Activity	69
C. English Lesson: The Ultimate Gift—A Persuasive-Writing Activity	81
D. Social Studies Lesson: Donation Debate—A Critical-Thinking Activity	87
E. Mathematics Lesson: Are Things Getting Better?—A Data-Analysis Activity	95
V. SUPPLEMENTARY MATERIALS	103
A Decision to Share	104
Donation Crossword	113

Table of Contents

Transplantation Timeline	115
Follow-up Questions for <i>Medicine's Modern Miracle</i> Video	116
Careers Associated With Transplantation	118
Community / Service Learning Activities	119
VI. WEB ACTIVITIES AND RESOURCES	121
VII. APPENDICES	123
A. National Education Standards	123
B. Donation / Transplantation Videos	124
<i>No Greater Love</i>	124
<i>Share Your Life. Share Your Decision</i>	124
<i>Medicine's Modern Miracle</i>	124
<i>Pass it On I and II</i>	124
<i>Christopher</i>	125
C. On-line Resources	126
VIII. GLOSSARY	130

Why teach about organ and tissue donation and transplantation?

Because donation saves lives. . .

Just one organ donor can save the lives of five of the nearly 84,000 men, women, and children who were on the national waiting list for organ transplants as of January 2004. Just one organ and tissue donor can provide life-saving or life-enhancing transplants to more than 50 people.

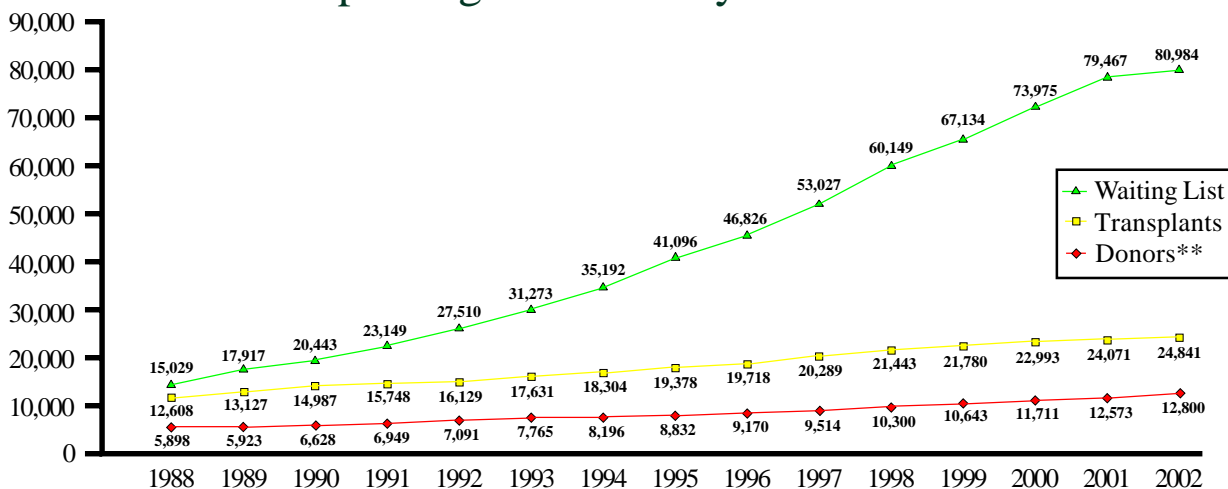
Because each day Americans die waiting for an organ transplant. . .

Thousands of people on the national organ transplant waiting list die every year—not because there’s no treatment—but because there are too few organ donors. Advances in medicine have resulted in greater numbers of terminally-ill patients being wait-listed for an organ transplant. However, with only modest increases in the number of organ donors over the past decade, the number of available organs remains woefully inadequate to meet the needs of those waiting.

Because education and awareness are the keys to increasing donation and providing these life-saving transplants. . .

It is a public health crisis and a modern-day tragedy that we know how to save lives, but we often are unable to do so. Learning about donation can encourage young Americans to be organ and tissue donors and to share their decisions with their families and friends. Accordingly, the miracles of donation and transplantation have a place in every classroom in America.

Gap in Organ Availability—1988-2002*



* Data from UNOS OPTN Scientific Registry

** Data include cadaveric and living donors

This graph clearly shows the continually widening gap between the number of patients on the waiting list and the number of donors. You can see that the number of transplants parallels and is limited by the number of donors.

Why is it important to talk about donation?

Some states recover organs based on a deceased adult's legally documented consent to donate; other states require family consent (See **Common Questions and Misconceptions** for discussion of minors). In all instances, family members can best serve as your advocate if you have shared your donation decision with them. While data indicate that a large majority of Americans say they support organ and tissue donation, when asked to donate a deceased relative's organs and tissues, only about 50 percent of families consent. One reason for this disparity is that families often do not know of the deceased's donation intentions. A recent study supported by the Agency for Healthcare Research and Quality of the U.S. Department of Health and Human Services found that:

- 95 percent of families surveyed said that knowing their loved one's wishes would have a substantial influence on their decision to donate that family member's organs and tissues.
- Only 43 percent of respondents had ever discussed donation with their loved ones.
- Less than 25 percent knew if their loved ones carried a donor card.

Why has the United States Department of Health and Human Services created a program on donation for high school students?

On April 17, 2001, Health and Human Services Secretary Tommy G. Thompson announced a new national initiative to increase organ, tissue, marrow, and blood donation. *Decision: Donation—A School Program That Gives the Gift of Life* partially fulfills one goal of the Secretary's initiative to increase donation by creating an organ and tissue donation education program, informing the Nation's youth about donation, and encouraging them to consider becoming donors. As the educators of this country, you can help to fully accomplish this goal. By using these materials to integrate organ and tissue donation into your existing curriculum and training programs, you will help those waiting for a life-saving transplant to realize their goal.

According to Secretary Thompson, educating the nation's youth about organ and tissue donation can result in two important outcomes:

- Young people will be able to make an informed decision when asked to indicate their donation decision on their driver's license or State donor registry.
- The youth of this Nation will be able to educate their families about the importance of organ and tissue donation.

This high school education component of Secretary Thompson's national Gift of Life Donation Initiative evolved from his commitment to donation while governor of Wisconsin. As Governor, he supported the passage of *Kelly's Law*—legislation requiring all Wisconsin driver's education classes to provide at least 30 minutes of instruction on organ and tissue donation. Kelly was a high school student who said yes to donation on her driver's license. A short time later she died as a result of an auto accident. Kelly's organs saved the lives of three people.

What is the purpose of this educational program?

Decision: Donation provides a multifaceted set of materials—print, video, CD-ROM, and Web-based—that teachers throughout the country can use in a variety of subject areas to educate students and encourage them to consider organ and tissue donation.

How can I possibly add this into my already cramped curriculum?

This package was developed with you in mind. We know the workload that most teachers juggle, so this package contains a basic stand-alone **Core Lesson** that can be taught in one 45-minute class in any curriculum setting. Additional lessons and activities can stand alone as special topics or be integrated into the existing curriculum. The next section—**How to Use This Guide**—outlines the educational materials in this package and how they can be incorporated into your curriculum.

Which teachers should use these materials?

Since repetition is a critical element in learning, it would be ideal to integrate donation instruction into multiple curriculum areas, such as driver's education, health education, biology, English, mathematics, and social studies. We encourage you to discuss this approach with other members of your teaching staff and provide students with as many opportunities as possible to learn about donation.

NOTE: *Your school may already participate in an educational program on donation provided by an organ procurement organization (OPO), a local Coalition on Donation (Coalition), or another donation organization. These materials are not intended to replace, but rather to supplement, ongoing programs where they exist. We suggest that you collaborate with your local OPO, Coalition, and other donation organizations to provide the best possible program for your students. These organizations can provide expertise and additional information relevant to your area, and often have trained speakers whose presentations can enhance your program.*

A final word. . . .

If you and your students become educated about donation and share that education with others, you will almost certainly, someday, somewhere, save a life.

Thank you

