

Tab C
EBAA 2000 Eye Banking Statistics

Introduction

2000 Eye Banking Statistics

Enclosed is the Eye Bank Association of America's statistical report for 2000. 80 U.S. member eye banks reported statistics for the year 2000 (83 in 1999). This is close to 100%. When EBAA reports the total number of member eye banks as it routinely does in its materials, it bases its count on an accreditation list that separates out each facility that is inspected, even if it belongs to an umbrella entity. For statistical reporting purposes, many eye banks count all of their facilities that distribute from a centralized area, under one legal entity. Banks are identified according to designated information submitted to the EBAA.

There were three non-reporting eye banks in 2000. Those eye banks are:

- Lions Eye Bank of Central Pennsylvania, Hershey (124 transplants reported in 1999)
- Lions Eye Bank of Puerto Rico, San Juan (277 transplants reported in 1999)
- Life Bank of East Texas, Tyler (25 transplants reported in 1999)

In addition, Montana Eye Bank, Inc., Missoula merged with Northwest Lions Eye Bank, Seattle. The data provided by Montana Eye Bank represents their activity for the period 1/1/00-6/30/00, prior to the merger.

Four eye banks reported under new names in 2000. The four eye banks are:

- Indiana Lions Eye & Tissue Transplant Bank reported as Indiana Lions Eye Bank in 1999
- Lions Eye Bank of Wisconsin reported as The EyeBank of Wisconsin in 1999
- Old Dominion Eye Foundation, Inc. reported as Old Dominion Eye Bank in 1999
- Texas Lions Eye Bank Alliance reported as District 2-A1 Lions Eye Bank in 1999

The 2000 report also includes data from eight international eye banks, down from ten reporting in 1999. One eye bank, Regional Tissue Bank, Halifax, Nova Scotia, reported in 2000 but did not report in 1999. Three international eye banks that reported in 1999 did not report in 2000. The three non-reporting international eye banks are:

- East Grinstead Eye Bank, East Grinstead, England (9 transplants reported in 1999)
- Cornea Center Eye Bank, Ichikawa-shi, Japan (36 transplants reported in 1999)
- King Khaled Eye Specialist Hospital Eye Bank, Riyadh, Saudi Arabia (11 transplants reported in 1999)

Two eye banks became associate members in the year 2000, but no activity was reported. Those eye banks are:

- Tennessee Donor Services, Nashville
- Lions Eye Bank of Lexington, Lexington

While there was a slight decrease in donors, 0.8%, corneal grafts increased by 2.6%, thereby meeting demand in the U.S.

This report represents information provided by individual eye banks and summarized by the EBAA.

2000 Eye Banking Statistics

88 U.S. and International Eye Banks Reporting (1)

Donations	2000	1999	1998	1997	1996
Number of Eye Banks Reporting	88	93	99	102	108
Total Donations	94,186	95,366	95,103	90,465	92,162
Total Number of Donors	47,796	48,122	47,889	45,696	46,045

Distribution	2000	1999	1998	1997	1996
Corneal Grafts (2)	50,197	48,623	47,425	45,493	46,300
Epikeratophakia	73	61	112	129	142
Sclera	4,299	4,352	5,107	4,679	5,791
Other Surgical Use (3)	79	107	183	488	162
Research	21,881	20,861	21,904	21,766	24,163
Training	5,729	7,697	7,803	8,318	9,458

(1) In 1999, there were 93 U.S. and international eye banks reporting

(2) Includes penetrating keratoplasty (PKP) and lamellar keratoplasty (LKP).

(3) Procedures performed, such as keratolimbus allograft (KLAL), use human eye tissue which does not apply to any previously listed category.

2000 U.S. Eye Banking Statistics

80 U.S. Eye Banks Reporting (1)

Donations	2000	1999	% Change
Total Donations	85,548	86,877	-1.5%
Total Number of Donors	43,432	43,802	-0.8%

Distribution	2000	1999	% Change
Corneal Grafts (2)	46,949	45,765	2.6%
Epikeratophakia	73	61	19.7%
Sclera	3,898	4,003	-2.6%
Other Surgical Use (3)	79	97	-18.6%
Research	21,406	20,294	5.5%
Training	4,918	6,931	-29.0%

	Used Locally	Exported (4) Domestic and International	Total
Corneal Grafts (2)	23,941	23,008	46,949

Patients Awaiting Corneal Transplant

75 U.S. Eye Banks Reporting

Number of persons on waiting lists for corneal tissue in the U.S. as of 12/31/2000:	1,125
Number of persons scheduled for corneal transplant surgery in the U.S. as of 12/31/2000:	2,307

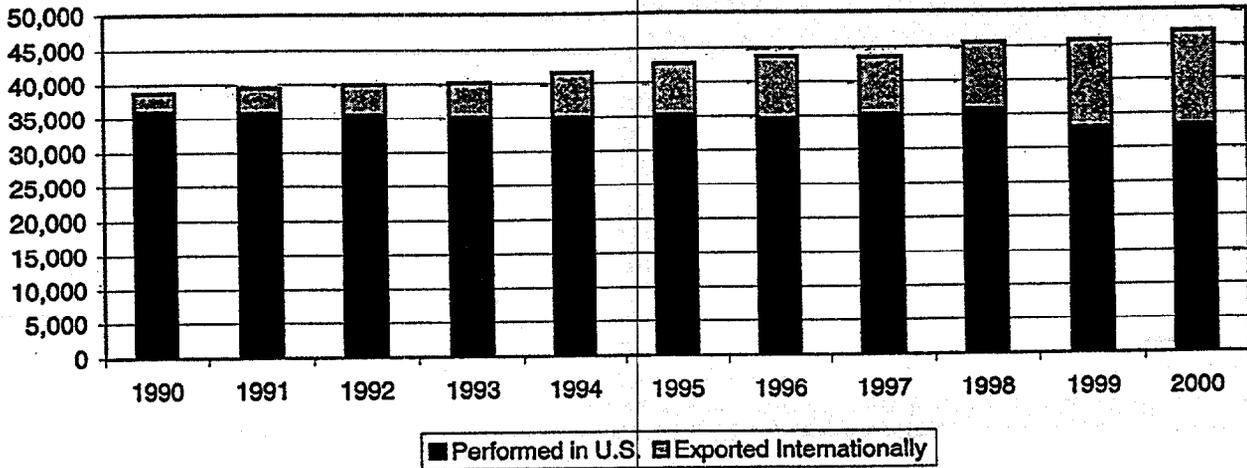
(1) In 1999, there were 83 U.S. eye banks reporting.

(2) Includes penetrating keratoplasty (PKP) and lamellar keratoplasty (LKP).

(3) Procedures performed, such as keratolimbal allograft (KLAL), use human eye tissue which does not apply to any previously listed category.

(4) Exported tissues are those sent by U.S. eye banks to other eye banks or to surgeons in different service areas within the U.S. or to other countries.

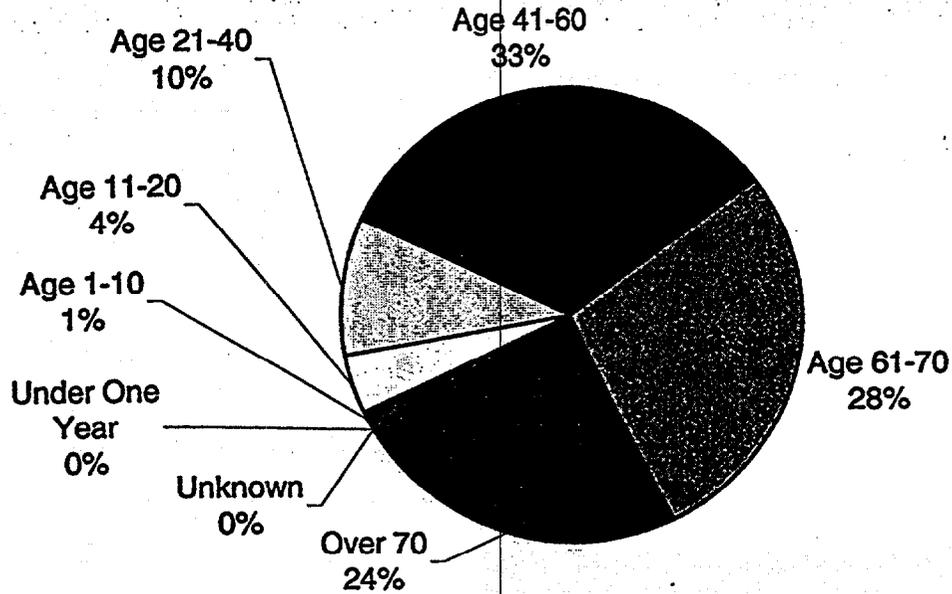
Annual Number of Corneal Transplants 1990-2000



Year	Provided by U.S.	Exported Internationally	Performed in U.S.
1990	38,762	2,725	36,037
1991	39,515	3,684	35,831
1992	39,973	4,448	35,525
1993	40,215	5,042	35,173
1994	41,539	6,517	35,022
1995	42,740	7,440	35,300
1996	43,711	9,043	34,668
1997	43,492	8,283	35,209
1998	45,579	9,718	35,861
1999	45,765	12,745	33,020
2000	46,949	13,689	33,260

Donors by Age

80 U.S. Eye Banks Reporting (1)

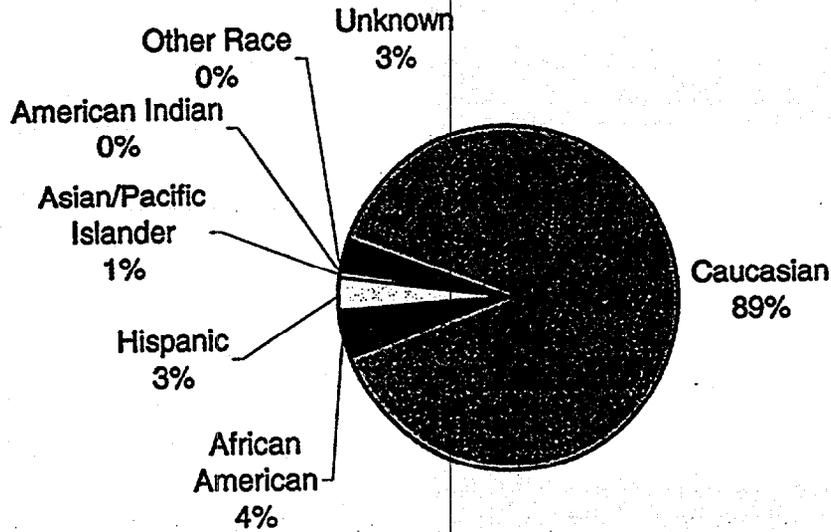


	2000		1999 #	
Under One Year	65	0.1%	49	0.1%
Age 1-10	532	1.2%	520	1.2%
Age 11-20	1,777	4.1%	1,763	4.0%
Age 21-40	4,215	9.7%	4,087	9.3%
Age 41-60	14,380	33.1%	13,653	31.2%
Age 61-70	12,105	27.9%	12,459	28.4%
Over 70	10,333	23.8%	11,134	25.4%
Unknown	25	0.1%	137	0.3%
Total Donors by Age	43,432		43,802	

(1) In 1999, there were 83 U.S. eye banks reporting.

Donors by Race

80 U.S. Eye Banks Reporting (1)

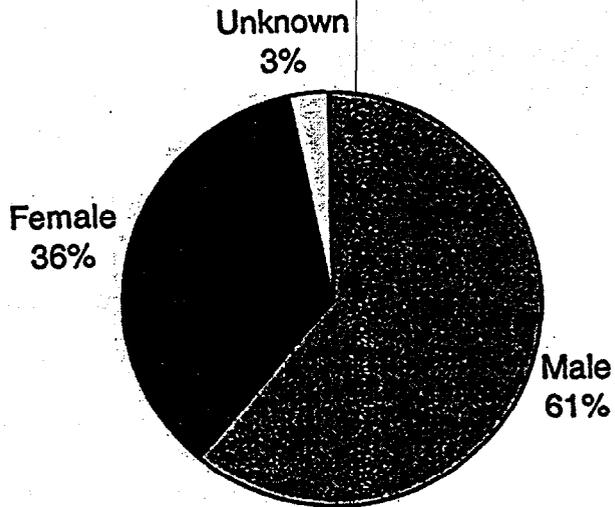


	2000		1999 #	
Caucasian	38,644	89.0%	39,135	89.3%
African American	1,951	4.5%	1,888	4.3%
Hispanic	1,277	2.9%	1,309	3.0%
Asian/Pacific Islander	261	0.6%	241	0.6%
American Indian	58	0.1%	41	0.1%
Other Race	96	0.2%	90	0.2%
Unknown	1,145	2.6%	1,098	2.5%
Total Donors by Race	43,432		43,802	

(1) In 1999, there were 83 U.S. eye banks reporting.

Donors by Gender

80 U.S. Eye Banks Reporting (1)

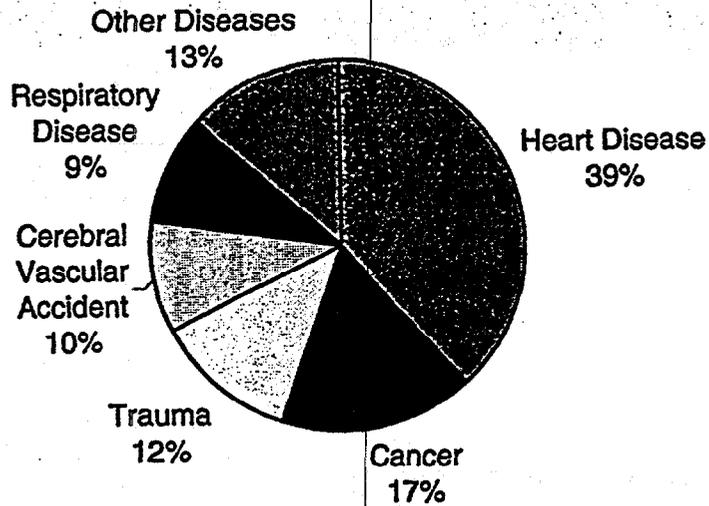


	2000		1999 #	
Male	26,687	61.4%	26,794	61.2%
Female	15,456	35.6%	15,978	36.5%
Unknown	1,289	3.0%	1,030	2.4%
Total Donors by Gender	43,432		43,802	

(1) In 1999, there were 83 U.S. eye banks reporting.

Cause of Death

80 U.S. Eye Banks Reporting (1)



	2000		1999 #	
	#	%	#	%
Heart Disease	16,591	38.2%	17,459	39.9%
Cancer	7,390	17.0%	7,406	16.9%
Trauma	5,381	12.4%	5,154	11.8%
Cerebral Vascular Accident	4,174	9.6%	4,073	9.3%
Respiratory Disease	4,083	9.4%	4,009	9.2%
Other Diseases	5,813	13.4%	5,701	13.0%
Total Donors by Cause of Death	43,432		43,802	

(1) In 1999, there were 83 U.S. eye banks reporting.

Corneal Transplant Recipient Diagnoses Report – 2000

Seventy-seven eye banks reported recipient diagnoses for the year 2000, the same as 1999. The total number of cases with reported recipient diagnoses also remained about the same -- 31,532 in 2000 compared to 32,394 in 1999. This represents 67% of the corneas distributed by the 80 U.S. eye banks reporting for the year 2000.

The percentage of corneal transplants done for pseudophakic corneal edema (PCE), still the most common recipient diagnosis, hovers just under 20%. Combining PCE and aphakic corneal edema (ACE) gives the corneal transplants done following previous eye surgery, except previous corneal transplant, and this combination rose slightly due to the PCE component.

A slowly increasing trend continues in re-grafts with and without allograft rejection. The combination of these re-graft categories has risen 5 percentage points, or 70% in the past decade.

<u>Corneal transplants for PCE</u>		<u>Corneal transplants for PCE + ACE</u>		<u>Repeat corneal transplants</u>		
1991	25.1%	1991	33.6%	1991	1,418	7.1%
1992	23.0%	1992	30.9%	1992	1,879	6.9%
1993	21.4%	1993	28.1%	1993	2,333	7.8%
1994	22.1%	1994	28.3%	1994	2,822	9.1%
1995	20.4%	1995	26.1%	1995	2,854	10.4%
1996	24.9%	1996	30.2%	1996	2,850	10.5%
1997	21.2%	1997	25.2%	1997	3,278	11.0%
1998	20.8%	1998	24.7%	1998	3,390	11.5%
1999	18.6%	1999	21.5%	1999	3,675	11.3%
2000	19.6%	2000	22.3%	2000	3,830	12.1%

Fuchs' dystrophy and keratoconus show a slight increasing trend in recent years that is probably real in both percentage and actual numbers.

Infectious causes taken separately and together (viral + syphilitic + bacterial) continue to show little change, with small numbers that show no trend. The same is true for traumatic causes (mechanical + chemical).

James I. McNeill, M.D.
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 April 2, 2001

Corneal Transplant Recipient Diagnoses

77 U.S. Eye Banks Reporting (1)

	2000		1999 #	
Indications for Penetrating Keratoplasty				
Pseudophakic Corneal Edema	6,174	19.6%	6,014	18.6%
Endothelial Corneal Dystrophies	4,708	14.9%	4,342	13.4%
Ectasias/Thinnings	4,575	14.5%	4,379	13.5%
Regraft unrelated to Allograft Rejection	2,304	7.3%	2,186	6.7%
Regraft related to Allograft Rejection	1,526	4.8%	1,489	4.6%
Noninfectious Ulcerative Keratitis	1,084	3.4%	1,177	3.6%
Corneal Degenerations	993	3.1%	989	3.1%
Aphakic Corneal Edema	867	2.7%	933	2.9%
Stromal Corneal Dystrophies	658	2.1%	589	1.8%
Mechanical Trauma	543	1.7%	572	1.8%
Viral/Post-Viral Keratitis	446	1.4%	420	1.3%
Congenital Opacities	317	1.0%	412	1.3%
Microbial/Post-Microbial Keratitis	244	0.8%	300	0.9%
Syphilitic/Post-Syphilitic Keratitis	104	0.3%	173	0.5%
Chemical Injuries	97	0.3%	85	0.3%
Other	6,892	21.9%	8,334	25.7%
Total Indications for PKP	31,532		32,394	
Indications for Lamellar Keratoplasty				
Unspecified Anterior Stromal Scarring	116	30.1%	89	23.0%
Ulcerative Keratitis or Perforation	106	27.5%	59	15.2%
Keratoconus	51	13.2%	74	19.1%
Corneal Degenerations	48	12.4%	76	19.6%
Trauma	48	12.4%	76	19.6%
Pterygium	10	2.6%	6	1.6%
Post-Keratectomy	5	1.3%	4	1.0%
Reis-Buckler's Dystrophy	2	0.5%	3	0.8%
Total Indications for LKP	386		387	

(1) In 1999, there were 77 eye banks reporting.