



# 2009 Eye Banking Statistical Report

Eye Bank Association of America

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## Introduction

### 2009 Eye Banking Statistics

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#### **Overview:**

Enclosed is the Eye Bank Association of America's (EBAA) statistical report for 2009. This report is organized similar to last year's because of the similarity in data collection methodology.

In 2008, the EBAA began a new collection methodology for the Statistical Report. The goal of this new methodology was to create a reporting structure that more accurately reflects the activity of the eye banking community, from referral to distribution. The 2009 report follows the same methodology but with some modifications to reflect lessons learned from the 2008 report.

With these modifications, some of the categories may not allow for an exact comparison from the previous year. The Statistical Report notes where it may not be appropriate to compare statistics from the previous year's data to this year's information.

#### **U.S. Activity:**

The 2009 statistical report of the Eye bank Association of America (EBAA) includes information on 78 U.S. member eye banks reporting for the calendar year 2009. For reporting purposes, many eye banks include all of their facilities under one legal entity. For this reason, the 78 reporting eye banks represent an essentially complete picture of the eye banking activity of the 85 member banks in the United States for 2009. Domestic eye banks reported 107,289 total tissue recoveries in 2009, an increase of 13.1% from 94,864 recoveries in 2008. This is the first time that over 100,000 tissues were recovered in a single year. Total donors in the United States were 53,786, up 12.6% from 2008. The total number of tissue distributed and used for keratoplasty (including both pre-cut and not pre-cut) was 59,784, a 13.9% increase from the previous year. In the U.S., the reported number of corneal transplants performed increased by 2.3% in 2009, from 41,652 to 42,606, compared to a 5.7% increase in 2008 from 39,391 to 41,652. The increasing trend in the number of corneas provided for endothelial keratoplasty (EK) procedures continues. In 2008, there was a significant increase with 17,468 corneas that were provided for EK procedures, compared with 14,159 in 2007 (23%). These numbers, however, include tissues distributed outside the U.S. For 2009, in the U.S. alone, 18,221 corneas were provided for EK procedures (4% more than the combined U.S. and international numbers from 2008).

#### **International Activity:**

The 2009 report includes statistics from nine international eye banks, the same number of international eye banks that reported in 2008 and 2007. The total number of corneas provided for transplant by international banks was 4,645, a slight decrease of 0.61% (from a total of 4,617 in 2008). Total donations reported by international banks were 9,011, up by 3% from 2008.

# STATISTICS FROM U.S. BANKS

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**2009 Eye Banking Statistics Reported by U.S. Banks:  
Donations, Recoveries and Tissues Suitable for Transplantation  
78 U.S. Eye Banks Reporting**

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<b>Donations</b>	<b>2009</b>	<b>2008</b>	<b>2007</b>	<b>2006</b>	<b>2005</b>
Number of Eye Banks Reporting	78	77	76	76	88
Total Whole Globes and Corneas Donated	107,289	94,864	82,741	77,135	84,789
Total Number of Donors	53,786	47,776	41,672	38,784	42,649

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<b>Recoveries</b>	<b>2009</b>	<b>2008</b>
Eyes or Corneas Recovered with Intent for Surgical Use	94,852	82,753
Eyes or Corneas Recovered for Other Uses	12,437	12,111

<b>Tissues Suitable for Transplantation</b>	<b>2009</b>
Unlimited Surgical Use (PK, ALK, EK, KLA, Tectonic)	32,318
Use Limited by Inadequate Limbal Tissue (Conj or Scleral Rim)	24,755
Use Limited by Inadequate Endothelium	3,184
Use Limited by Anterior Stromal Scarring	1,500
Use Limited by Prior Corneal Refractive Surgery	1,728
KLA or Tectonic Only	658
Tectonic Only	1,957
Tissues Delivered to Another Entity for Processing, Evaluation & Final Distribution	14,611

**2009 Eye Banking Statistics Reported by U.S. Banks:  
Distribution of Tissues  
78 U.S. Eye Banks Reporting**

<b>Distribution</b>	<b>2009</b>	<b>2008</b>	<b>2007</b>	<b>2006</b>	<b>2005</b>
Corneal Grafts Total	59,784	52,487	50,122	45,035	48,298
Penetrating Keratoplasty	23,269	32,524	34,806	38,064	45,821
Anterior (Lamellar) Keratoplasty	774	1,072	950	806	869
Endothelial Keratoplasty	18,221	17,468	14,159	6,027	1,429
Keratolimbal Allograft	120	173	207	138	179
Keratoprosthesis (K-Pro)	222	-	-	-	-
Tectonic	-	1,250	-	-	-
Sclera	7,634	5,374	4,698	4,018	3,886
Long-Term Preserved Corneas	2,053	989	-	-	-
Research	14,547	13,730	13,824	11,845	14,332
Training	7,113	5,385	4,801	4,858	5,477

The shaded numbers reflect tissues distributed and used within the U.S. only. Data for tissue distributed internationally did not include by surgery type. Data from previous years included U.S. and international distribution of tissues.

**2009**

<b>Total Tissues Distributed &amp; Used for Keratoplasty</b>	<b>59,784</b>
<b>Distributed and Used Within the U.S.</b>	<b>42,606</b>
PK	23,269
ALK	774
EK	18,221
KLA	120
Keratoprosthesis (K-Pro)	222
<b>Distributed and Used Outside the U.S.</b>	<b>17,178</b>
<b>Tissues Distributed But Not Used for Transplantation</b>	<b>680</b>
Lost or Damaged in Transit to Location of Use	143
Recipient Issues (e.g. late cancellation)	312
Problems Noted by the Surgeon Prior to Use	66
Intraoperative Problems (e.g. mishandling in OR) – Donor Tissue Never Contacted the Recipient	157
Transplanted But Removed – Donor Tissue Contacted the Recipient	2
<b>Tissues Processed Prior to Distribution</b>	<b>12,334</b>
Microkeratome Cut for Lamellar Surgery (e.g. EK, ALK)	12,037
Manual Preparation for Lamellar Surgery (e.g. DMEK)	9
Laser Cut for Lamellar Surgery (e.g. EK, ALK)	25
Laser Cut for Penetrating Surgery (e.g. IEK)	263

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**2009 Eye Banking Statistics Reported by U.S. Banks:  
Reasons Tissue Intended for Surgery Was Not Suitable for  
Transplant Reported by U.S. Banks  
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There are several reasons why tissue intended for surgery are not used for surgery. They include positive serology results, defects noted at the time of evaluation (scars, infiltrates, low cell counts, etc.) and/or medical or social history information, all of which occur subsequent to initial screening and procurement.

<b>Contraindications for Transplant<sup>1</sup></b>	<b>2009</b>		<b>2008</b>	
Anti-HIV-1/2	160	0.4%	114	0.5%
HIV-1 Nucleic Acid Test Positive	118	0.3%	87	0.4%
Anti-HCV	1,433	3.8%	1,354	5.6%
Hepatitis C Nucleic Acid Test Positive	509	1.3%	233	1.0%
Hepatitis B Surface Antigen (HBsAg) Positive	827	2.2%	860	3.6%
Hepatitis B Core (HBcAb) Positive	3,427	9.1%	2,698	11.3%
Syphilis Positive	256	0.7%	269	1.1%
West Nile Virus Nucleic Acid Test Positive	21	0.0%	6	.01%
Other Positive Serology	886	2.3%	639	2.7%
Plasma Dilution	380	1.0%	242	1.0%
Other Communicable Disease Testing Issue	421	1.1%	443	1.8%
Medical Record or Autopsy Findings	6,560	17.3%	4,797	20.0%
Medical Record or Autopsy Findings: Dementia	515	1.4%	-	
Medical Record or Autopsy Findings: Sepsis	3,149	8.3%	-	
Medical Record or Autopsy Findings: Other	2,896	7.7%	-	
Medical/Social Interview	1,865	4.8%	-	
Medical/Social Interview: Travel Questions	221	0.6%	186	0.8%
Medical/Social Interview: Dementia	145	0.4%	244	1.0%
Medical/Social Interview: Other	1,499	4.0%	1,281	5.3%
Tissue Suitability (e.g. slit lamp/spec eval)	9,494	25.1%	8,207	34.2%
Other Issues (e.g. transport & storage)	3,083	8.2%	2,314	9.7%

<b>Total Number of Unsuitable Tissues</b>	<b>28,771</b>
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<sup>1</sup> Some tissues had multiple contraindications.

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**2009 U.S. Eye Banking Statistics Reported by U.S. Banks:  
Donation/Distribution Comparisons 2008-2009  
78 U.S. Eye Banks Reporting**

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<b>Donations</b>	<b>2009</b>	<b>2008</b>	<b>% Change</b>
Eye Banks Reported	78	77	1.3%
Total Whole Globes and Corneas Donated <sup>2</sup>	107,289	94,864	13.1%
Total Number of Donors	53,786	47,776	12.6%

<b>Distribution</b>	<b>2009</b>	<b>2008</b>	<b>% Change</b>
Corneal Grafts Total	59,784	52,487	12.3%
Sclera	7,634	5,374	42.1%
Long-Term Preserved Corneas	2,053	989	107.6%
Research	14,547	13,730	6.0%
Training	7,113	5,385	32.1%

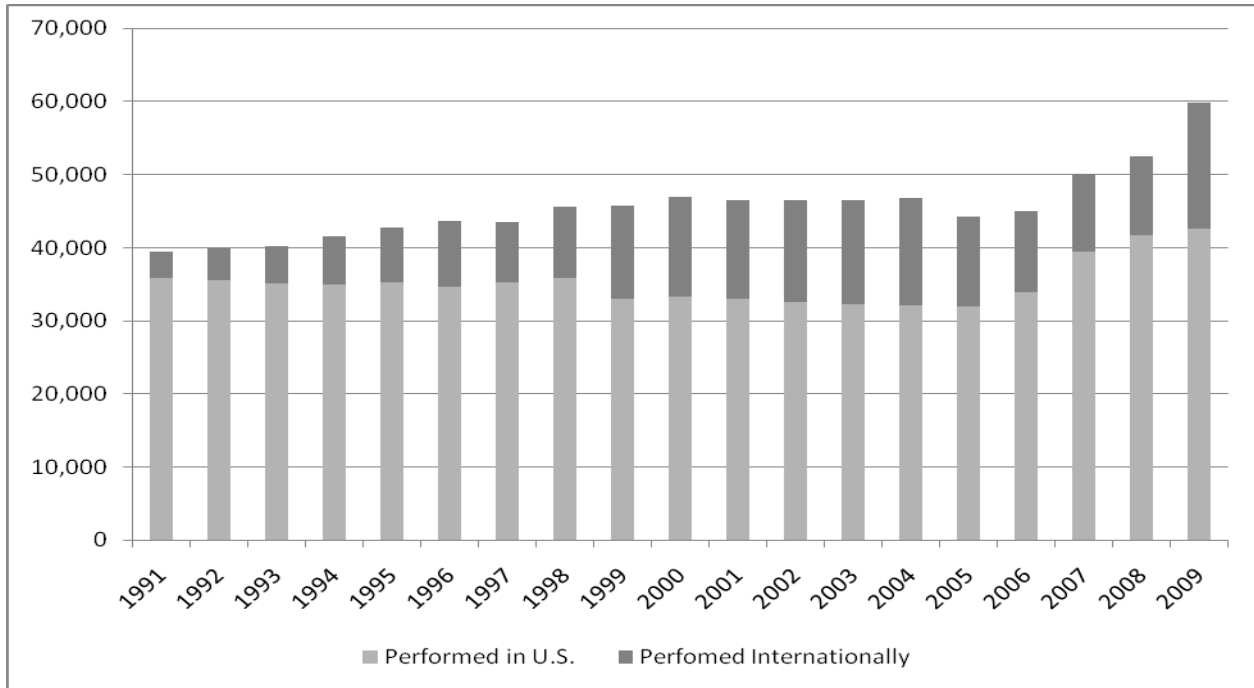
<b>Direct &amp; Export Tissue Distribution of Corneal Tissue for Surgery</b>	<b>2009</b>	<b>2008</b>	<b>% Change</b>
Direct Distribution for Use Within the United States	42,606	41,652	2.3%
Forwarded to an EBAA-Accredited Eye Bank	11,811	6,097	93.7%
Forwarded to a non-EBAA-Accredited Institution	2,800	1,458	92.0%
Distributed & Used Outside the United States	17,178	10,835 <sup>3</sup>	58.5%

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<sup>2</sup> This number includes eyes or corneas recovered with intent for surgical use and recovered for other uses.

<sup>3</sup> Due to a difference in reporting methods for 2008, the number of surgeries performed internationally is an estimate.

**2009 U.S. Eye Banking Statistics Reported by U.S. Banks:  
Annual Number of Corneal Transplants Supplied by U.S. Banks  
78 U.S. Eye Banks Reporting**

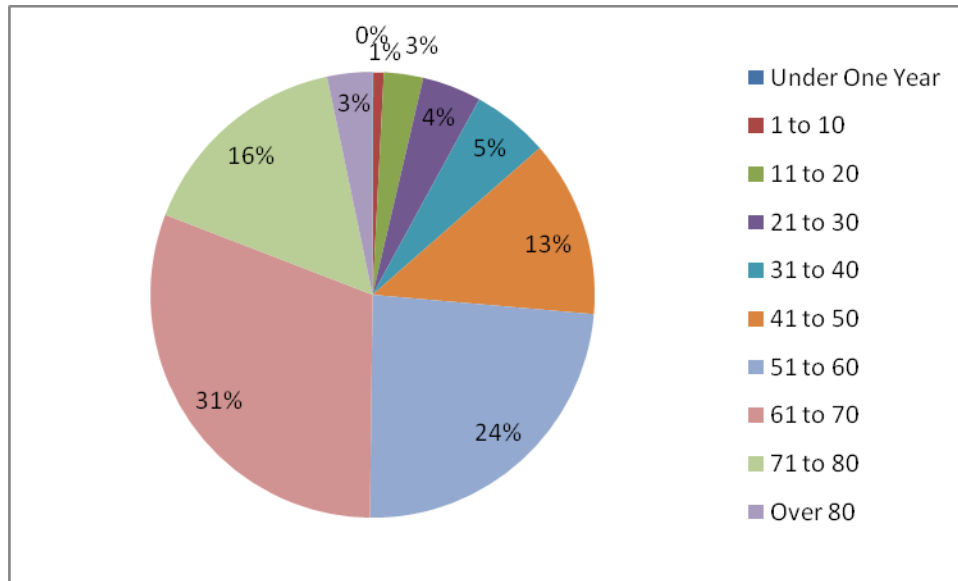


<b>Year</b>	<b>Total Provided by U.S.</b>	<b>Performed in U.S.</b>
1991	39,515	35,831
1992	39,973	35,525
1993	40,215	35,173
1994	41,539	35,022
1995	42,740	35,300
1996	43,711	34,668
1997	43,492	35,209
1998	45,579	35,861
1999	45,765	33,020
2000	46,949	33,260
2001	46,532	33,035
2002	46,440	32,559
2003	46,436	32,240
2004	46,841	32,106
2005	44,329	31,952
2006	45,035	33,962
2007	50,122	39,391
2008	52,487	41,652
2009	59,784	42,606



**2009 U.S. Eye Banking Statistics Reported by U.S. Banks:  
Donors by Age Reported by U.S. Banks  
Comparison 2008-2009  
78 U.S. Eye Banks Reporting**

**2009**



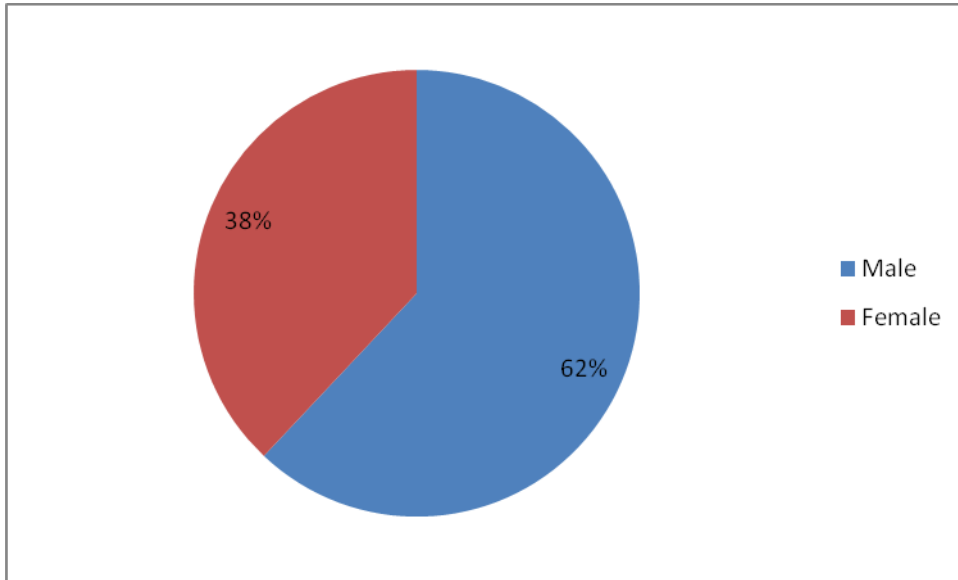
Age	2009		2008	
Under One Year	26	0.0%	87	0.1%
Age 1-10	406	0.7%	392	0.8%
Age 11-20	1,538	2.8%	1,488	3.1%
Age 21-30	2,310	4.3%	2,164	4.5%
Age 31-40	3,002	5.6%	2,562	5.4%
Age 41-50	6,911	12.9%	6,077	12.7%
Age 51-60	12,803	23.8%	11,291	23.6%
Age 61-70	16,494	30.7%	14,401	30.1%
Age 71-80	8,528	15.9%	7,730	16.2%
Over 80	1,768	3.3%	1,675	3.5%
<b>Total Donors by Age</b>	<b>53,786</b>		<b>47,776</b>	

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**2009 U.S. Eye Banking Statistics Reported by U.S. Banks:  
Donors by Gender Reported by U.S. Banks  
Comparison 2008-2009  
78 U.S. Eye Banks Reporting**

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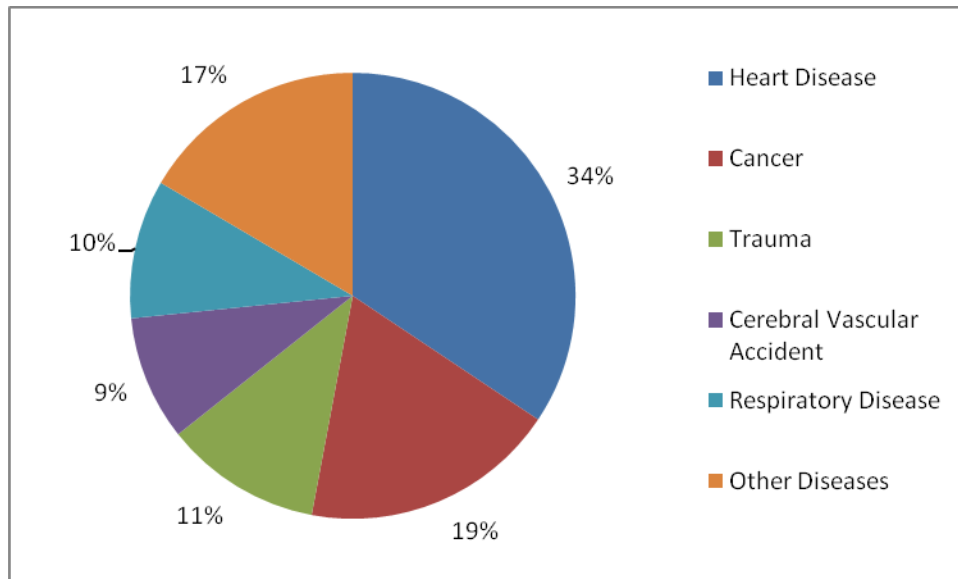
**2009**



<b>Donors by Gender</b>	<b>2009</b>		<b>2008</b>	
Male	33,417	62.1%	29,633	62.0%
Female	20,369	37.9%	18,143	38.0%
<b>Total Donors</b>	<b>53,786</b>		<b>47,776</b>	

**2009 U.S. Eye Banking Statistics Reported by U.S. Banks:  
Cause of Death Reported by U.S. Banks  
Comparison 2008-2009  
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**2009**



Cause of Death	2009		2008	
Heart Disease	18,481	34.4%	15,866	33.2%
Cancer	10,002	18.6%	8,913	18.7%
Trauma	6,122	11.4%	5,673	11.9%
Cerebral Vascular Accident	4,868	9.0%	4,794	10.0%
Respiratory Disease	5,419	10.1%	4,707	9.6%
Other Diseases	8,894	16.5%	7,823	16.4%
<b>Total Donors by Cause of Death</b>	<b>53,786</b>		<b>47,776</b>	

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## Indications for Corneal Transplant Report - 2009

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### Domestic Bank Tissue Utilization

The 2009 statistical report of the Eye bank Association of America (EBAA) includes information for all 78 US member eye banks reporting for the calendar year 2009. Domestic eye banks reported 107,289 total tissue recoveries in 2009, an increase of 13.1% from 94,864 recoveries in 2008. This was the first year that total tissue recoveries exceeded 100,000. Total donors in the United States were 53,786, up 12.6% from 47,776 donors in 2008. The total tissue number distributed for all uses (including full thickness and lamellar keratoplasty, sclera and research, both pre-cut and not pre-cut) in 2009 was 59,784, a 13.9% increase from 52,487 the previous year.

2009 was the second year that pre-cut and not pre-cut tissue utilization was stratified into penetrating grafts (PK), anterior lamellar keratoplasty (ALK), endothelial keratoplasty (EK), kereatolimb allografts (KLA), and tectonic grafts (TK). Keratoprosthesis as a sixth utilization was added this year. Because of additional modifications made this year to the 2007 and 2008 methodology and data collection process, exact comparisons with previous years' data may not always be made. In the US, tissue supplied for keratoplasty procedures (i.e. total transplants, both pre-cut and not pre-cut) was 42,606, an increase of 2.3% from 41,652 in 2008. 17,178 corneas were exported internationally, a 58.5% increase over 10,835<sup>4</sup> exports in 2008. The number of penetrating keratoplasty grafts performed in the US in 2009 was 23,269, a nearly 30% decrease from 32,524<sup>5</sup> penetrating grafts in 2008. 18,221 corneas (both pre-cut and not pre-cut) were provided for (EK) procedures, an increase of 4% over 17,468<sup>5</sup> corneas provided in 2008. 12,071 of 18,221 corneas (66%) used for EK were pre-cut by the eye bank. Tissue used for ALK decreased in 2009 to 774, a 28%<sup>5</sup> decrease from 2008. Tissue for keratolimb allografts decreased 31% to 120 in 2009 from 173<sup>5</sup> in 2008.

### Tissue not used for transplant

Tissue suitability (slit lamp examination) was again the leading cause of tissue judged not suitable for transplant in 2009, responsible for 9,494 of 28,771 (33%) donor tissues rejected in 2009 (34.2% in 2008). 22.6% of donors (6,523) were rejected because of medical record or autopsy findings, compared to 20% in 2008. The leading serological rule out was hepatitis B core antibody positive in 3,427 donors (12%), an increase of 27% over 2,698 in 2008 and a 120% increase over 1,561 positive tests in 2007. The second leading serological test that caused tissue to be judged unsuitable for transplant was hepatitis C antibody, positive in 1,433 (5%) of donors in 2009. Tissue ruled unsuitable by slit lamp exam and medical/social history decreased significantly over the previous three years, presumably suggesting better and more efficient information exchanged at the time of death between eye banks and care providers. However, tissue judged unsuitable for transplant by the eye bank increased from 13,453 in 2008 to 28,771 in 2009, a 114% increase, suggesting more aggressive retrieval measures on the part of eye banks in the last year.

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<sup>4</sup> Due to different reporting methods, the 2008 figure is an estimated number.

<sup>5</sup> 2008 figures included both US and international data, whereas 2009 figures are for US only.

## **International export**

International export of tissue increased in 2009 to 29% (17,178 of 59,784) compared to 21% (10,835 of 52,487) in 2008. The percentage of tissue exported by domestic eye banks to international surgeons peaked at 31% in 2003 then fell to 21% in 2007. 2007 was the lowest level of international export since 19% in 1997.

## **Indications for Transplant**

With available reporting data, indications for transplant can be reviewed within specific procedures (i.e. PK for Fuchs dystrophy) or for all corneas (PK + EK for Fuchs dystrophy).

### Penetrating keratoplasty ( PK)

The leading indication for PK in 2009 was keratoconus (5,092, 21.7%). The second leading indication in 2009 was the category “other causes of corneal opacification or distortion”, a category that includes corneal scars and interstitial keratitis (4,358, 18.6%). Corneal opacification and distortion was the leading indication for keratoplasty in 2008 (6,893, 23%), and was the second leading indication for penetrating keratoplasty (5,317, 19.3%) in 2007 behind keratoconus (5,404, 19.6%). Keratoconus was the second leading cause of PK in 2008 (6,238, 21%) behind “other causes of corneal opacification and distortion”. Repeat transplants was the third leading indication for transplant in 2009 (4,085, 17.4%) as in 2008 (4,583, 16%) and 2007 (4,341, 15.7%). Post-cataract surgery edema was again the fourth leading cause of transplant in 2009 (3,622, 15.4%) as it was in 2008 (4,227, 14%) and 2007 (4,322, 15.7%). Dystrophies and degenerations were fifth again as well in 2009 (2,779, 11.8%) as in 2008 (2,940, 10%) and 2007 (3,540, 12.8%).

### Anterior lamellar keratoplasty (ALK)

Keratoconus (KC) was the leading indication for ALK in 2009 (330, 38.7%) as in 2008 (461, 37%). KC had been the second leading cause for ALK in 2007 (197, 27.6%) behind anterior stromal scarring/opacification (234, 32.7%). Anterior stromal scarring was the second most common indication in 2009 (272, 31.9%) and in 2008 (288, 23%). Corneal degeneration was third leading indication for ALK in 2009 (91, 10.7%), and the category “ulcerative keratitis or perforation” (68, 8%) was fourth in 2009. Ulceration/perforation was the third leading cause in 2008 (153, 12%) as it had been in 2007. Corneal degeneration in 2008 had been tied for fourth (144, 12%) with ocular trauma (144, 12%). Ocular trauma was fifth in 2009 (42, 4.9%).

### Endothelial keratoplasty

Fuchs dystrophy was the leading indication for endothelial keratoplasty in 2009 (8,604, 49.2%) as in 2008 (7,231, 50%). The second leading cause of EK in 2009 was the category “other causes of opacification, distortion or edema” (3,791, 21.7%). Post-cataract surgery edema was third (3,589, 20.5%) in 2009 but had been second in 2008 (3,250, 23%).

## **Summary**

By looking across all three procedures (PK, EK, ALK) and combining the procedures used for a specific diagnosis, one can get a better idea of the indications for which keratoplasty by one procedure or another is performed. Utilizing a denominator of 42,264 (the combined number of

PK, EK, and ALK procedures), we note that Fuchs dystrophy was the leading cause of keratoplasty in 2009 (PK 1,387 + EK 8,604 = 9,991, 23%). "Other causes of corneal opacification or degeneration" was second (PK 4,358 + EK 3,791 + ALK 272 = 8,421, 20%). The third leading cause of keratoplasty was post-cataract surgery edema (PK 3,622 + EK 3,589 = 7,211, 17%). Keratoconus was fourth (PK 5,092 + ALK 330 = 5,422, 13%). Note that endothelial disease, consisting of Fuchs dystrophy and post-cataract surgery edema, is the indication for 40% of all keratoplasty procedures.

Observations on data for 2009:

1) The increase (almost double) in the number of donor tissues ruled out for medical/social history last year suggests eye banks are becoming more aggressive in their efforts to retrieve tissue. This is in contrast to the last three years, where the number of corneas eliminated by med/soc history decreased, which led us to think that the procurement system was becoming more efficient, with better exchange of information between medical providers and eye bank personnel. Fewer donors eliminated by med/soc history means less time and expense is spent retrieving unsuitable tissue. The 2009 increase in tissue eliminated by med/soc history means that features which may render a donor unsuitable for transplant are caught later in the cascade of events leading to tissue storage compared to 2008.

2) The number of penetrating grafts for corneal disease in the United States has declined for the fourth straight year from 42,063 in 2005, 38,064 in 2006, 34,806 in 2007, and 32,877 in 2008 to 23,269 in 2009. This decline may be exaggerated because the 2009 figure is for tissue used in the US, and previous figures included both US and international tissue (international tissue is now in a separate category).

3) Endothelial keratoplasty numbers increased significantly again in 2009. 86% of keratoplasty procedures for Fuchs dystrophy were EK, demonstrating that EK is now the overwhelming procedure of choice for Fuchs dystrophy (EK 8,604, PK 1,387). Procedures for post-cataract surgery edema were evenly split between PK (3,622) and EK (3,589).

4) Anterior lamellar keratoplasty numbers decreased in 2009 to 774 from 1,072 in 2008, suggesting less enthusiasm for procedures like DALK. The number of keratolimbal allografts also decreased in 2009 to 120 from 173 in 2008 and 207 in 2007. Possible reasons for the decrease in these numbers are declining reimbursement, the technical difficulty of these procedures compared to other procedures, or availability of other treatments.

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**2009 U.S. Eye Banking Statistics Reported by U.S. Banks:  
Indications for Corneal Transplant Reported by U.S. Banks  
78 U.S. Eye Banks Reporting**

<b>Indications for Penetrating Keratoplasty or K-Pro</b>	<b>2009</b>		<b>2008</b>	
Post-cataract surgery edema	3,622	15.4%	4,227	14%
Keratoconus	5,092	21.7%	6,238	21%
Fuchs' Dystrophy	1,387	5.9%	2,273	8%
Repeat Corneal Transplant	4,085	17.4%	4,583	16%
Other degenerations or dystrophies	2,779	11.8%	2,940	10%
Microbial changes	637	2.7%	935	3%
Mechanical or chemical trauma	919	3.9%	792	3%
Congenital opacities	498	2.1%	434	2%
Post-refractive surgery	116	0.5%	78	0%
Other causes of corneal opacification or distortion	4,358	18.6%	6,893	23%
<b>Total Indications for Penetrating Keratoplasty or K-Pro</b>	<b>23,493</b>		<b>29,393</b>	

<b>Indications for Anterior Keratoplasty</b>	<b>2009</b>		<b>2008</b>	
Corneal Degenerations	91	10.7%	144	11.7%
Ulcerative Keratitis or Perforation	68	8.0%	153	12.4%
Unspecified Anterior Stromal Scarring	272	31.9%	288	23.3%
Keratoconus	330	38.7%	461	37.4%
Trauma	42	4.9%	144	11.7%
Reis-Buckler's Dystrophy	14	1.6%	21	1.7%
Post-Keratotomy	25	2.9%	17	1.4%
Pterygium	5	0.6%	6	0.5%
Post-Refractive Surgery	6	0.7%	-	-
<b>Total for Anterior Keratoplasty</b>	<b>853</b>		<b>1,234</b>	

<b>Indications for Endothelial Keratoplasty</b>	<b>2009</b>		<b>2008</b>	
Post-Cataract Surgery Edema	3,589	20.5%	3,250	22.5%
Fuchs' Dystrophy	8,604	49.1%	7,231	50.1%
Other Causes of Endothelial Dysfunction	3,791	21.7%	3,950	27.4%
Repeat Transplant (Endothelial Failure)	1,519	8.7%	-	-
<b>Total for Endothelial Keratoplasty</b>	<b>17,503</b>		<b>14,431</b>	

**STATISTICS  
FROM  
INTERNATIONAL  
BANKS**



## 2009 Eye Banking Statistics Reported by International Banks: Donations, Recoveries and Tissues Distributed for Transplantation 9 International Eye Banks Reporting

<b>Donations</b>	<b>2009</b>	<b>2008</b>
Number of Eye Banks Reporting	9	9
Total Whole Globes and Corneas Donated	9,011	8,749
Total Number of Donors	4,537	4,498
<b>Distribution</b>	<b>2009</b>	<b>2008</b>
Corneal Grafts Total	4,645	4,617
Penetrating Keratoplasty	3,088	3,194
Anterior (Lamellar) Keratoplasty	328	374
Endothelial Keratoplasty	1,112	786
Keratolimbal Allograft	59	2
Tectonic	-	261
Keratoprosthesis (K-Pro)	58	-
Sclera	1,172	1,090
Long-Term Preserved Corneas	197	94
Research	553	640
Training	1,329	983

<b>Tissues Processed Prior to Distribution</b>	
Microkeratome Cut for Lamellar Surgery (e.g. EK, ALK)	434
Manual Preparation for Lamellar Surgery (e.g. DMEK)	12
Laser Cut for Lamellar Surgery (e.g. EK, ALK)	0
Laser Cut for Penetrating Surgery (e.g. IEK)	0

<b>Reasons Tissues Are Not Suitable for Transplantation</b>	
Donor Eligibility	2,102
Tissue Suitability (e.g. slit lamp or specular evaluation)	938
Other Issues (e.g. transport & storage problems)	233
<b>Tissues Suitable for Transplantation</b>	
	<b>6,590</b>
Unlimited Surgical Use (PK, ALK, EK, KLA, Tectonic)	4,753
Use Limited by Inadequate Limbal Tissue	140
Use Limited by Inadequate Endothelium	449
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