

Table of Contents

Section F: Transplant Outcomes

Completed standard errors for this section will be available to download from the USRDS website after March 1st, 2007

- F.1 90-day graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.1.1 90-day probability of death with a functioning graft: all deceased donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.2 One-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.2.1 One-year probability of death with a functioning graft: all deceased donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.3 Two-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.3.1 Two-year probability of death with a functioning graft: all deceased donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.4 Three-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.4.1 Three-year probability of death with a functioning graft: all deceased donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.5 Five-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.5.1 Five-year probability of death with a functioning graft: all deceased donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.6 Ten-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.6.1 Ten-year probability of death with a functioning graft: all deceased donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.7 90-day graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.7.1 90-day probability of death with a functioning graft: all living donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.8 One-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.8.1 One-year probability of death with a functioning graft: all living donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.9 Two-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.9.1 Two-year probability of death with a functioning graft: all living donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.10 Three-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - F.10.1 Three-year probability of death with a functioning graft: all living donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number

- F.11 Five-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - G.11.1 Five-year probability of death with a functioning graft: all living donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number
- F.12 Ten-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
 - G.12.1 Ten-year probability of death with a functioning graft: all living donor transplants
by age, gender, race, ethnicity, primary diagnosis, & transplant number
- F.13 90-day probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.14 One-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.15 Two-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.16 Three-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.17 Five-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.18 Ten-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.19 90-day probability of graft failure necessitating dialysis or retransplantation: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.20 One-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.21 Two-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.22 Three-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.23 Five-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.24 Ten-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number
- F.25 Risk factors for graft failure: deceased donor transplants, 1999-2004 (N=31,312)
- F.26 Risk factors for graft failure: living donor transplants, 1999-2004 (N=15,588)

Footnotes for the tables in the printed ADR

for entire chapter:

†CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank.

*Values for cells with 10 or fewer patients are suppressed.

." Zero values in this cell.

- F.1 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ." Zero values in this cell.
- F.2 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ." Zero values in this cell.
- F.3 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ." Zero values in this cell.
- F.4 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ." Zero values in this cell.
- F.5 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ." Zero values in this cell.
- F.6 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. *Values for cells with 10 or fewer patients are suppressed. ." Zero values in this cell.
- F.7 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. ." Zero values in this cell.

- F.8 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.9 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.10 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS † 100 "." Zero values in this cell.
- F.11 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.12 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.13 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.14 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.

- F.15 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.16 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.17 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.18 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients of unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.19 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients with unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.20 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients with unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.21 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients with unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.

- F.22 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients with unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.23 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients with unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.
- F.24 Probabilities are adjusted for age, gender, race, primary diagnosis, first vs. subsequent transplant, & standardized to 1996 patient characteristics. Adjusted survival probabilities for one of the five variables are adjusted for the remaining four. Patients with unknown age or gender are excluded. Age is calculated as of the day of transplant. †CMS began collecting Hispanic ethnicity data in April 1995; cells for years prior to 1996 have therefore been left blank. "." Zero values in this cell.

Table F.1

90-day graft survival probabilities: all deceased donor transplants

by age, gender, race/ethnicity, primary diagnosis, & transplant number

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	83.3	100.0	100.0	72.7	83.3	72.7	87.5	57.1	33.3	80.0	66.7	50.0	50.0	80.0	.	100.0	100.0	100.0	75.0	100.0	100.0	.	100.0	
1-4	75.0	88.9	68.8	87.0	68.8	58.8	75.0	80.0	83.3	70.0	73.3	81.8	100.0	100.0	87.5	81.3	93.8	100.0	94.1	83.3	100.0	78.6	100.0	
5-9	88.5	94.4	86.1	80.7	91.7	80.0	73.9	81.3	77.4	82.1	75.0	95.5	81.3	85.0	87.1	82.8	96.6	92.3	90.3	85.7	93.8	100.0	96.4	96.8
10-14	85.7	87.1	80.3	85.1	84.2	90.6	88.2	78.1	76.4	80.0	80.4	90.9	83.8	90.0	90.2	72.7	96.2	94.8	95.8	93.5	97.1	94.3	95.9	97.1
15-19	91.9	85.7	85.4	84.9	86.1	82.9	88.2	85.6	80.7	84.5	84.7	85.1	86.7	85.9	87.8	91.1	90.5	93.3	88.3	89.3	88.8	92.9	94.6	96.4
20-29	85.5	84.9	83.7	84.2	83.5	84.5	83.1	85.9	82.0	85.8	86.0	88.1	87.9	88.1	90.1	92.0	90.4	94.7	92.9	93.5	93.1	94.0	95.5	94.3
30-39	83.1	85.8	82.0	83.0	85.0	86.4	85.1	84.0	83.2	84.1	85.9	89.4	89.2	87.4	89.9	91.5	92.6	92.2	94.3	92.9	93.8	94.2	94.0	94.5
40-49	81.9	85.3	82.6	80.6	82.2	84.5	84.6	81.2	81.9	86.1	86.1	86.9	88.3	88.9	90.5	90.8	92.3	93.1	94.3	94.7	93.7	95.1	93.3	95.7
50-59	79.6	80.1	78.7	80.4	86.8	82.8	82.7	85.5	84.5	85.5	87.0	87.8	87.7	87.7	89.2	90.3	91.0	91.7	91.4	91.9	92.6	92.8	92.6	93.4
60-64	80.0	82.1	75.0	85.9	80.0	82.0	82.8	86.0	82.2	86.4	86.0	87.9	89.7	89.4	89.2	91.2	90.9	92.7	91.6	89.6	90.9	92.6	92.6	90.1
65-69	100.0	87.5	100.0	77.8	95.0	100.0	90.0	77.3	81.9	86.4	86.9	87.7	87.6	90.0	88.7	86.3	88.5	89.2	91.9	90.5	89.5	88.5	92.5	92.8
70-79	100.0	100.0	.	100.0	75.0	100.0	75.0	82.4	75.0	78.1	84.9	89.7	83.8	83.9	90.9	88.5	88.8	90.3	89.1	88.2	91.0	89.5	91.0	92.4
80+	.	.	.	.	100.0	.	.	.	.	.	.	100.0	100.0	.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	87.5	100.0	
Male	83.1	84.6	81.2	82.4	83.8	85.7	84.3	83.8	82.4	85.1	86.4	88.1	88.2	88.6	90.3	90.6	91.5	93.3	92.9	93.2	93.2	92.8	93.1	93.8
Female	84.4	85.4	83.5	82.7	84.9	82.7	84.0	83.6	82.8	85.5	85.5	87.9	88.5	87.5	89.0	90.7	91.4	91.2	92.7	91.2	91.8	94.1	93.2	93.9
White	84.9	86.0	83.2	83.6	84.3	85.2	84.5	83.3	82.8	85.5	86.1	88.2	88.5	88.1	89.7	90.3	91.7	92.3	92.7	92.5	93.1	93.2	93.7	94.5
Black	78.2	81.8	78.6	79.8	83.0	82.9	82.8	84.7	81.1	83.4	85.9	86.9	87.2	87.6	90.1	91.0	90.5	92.3	92.4	91.9	91.3	93.2	92.0	92.4
Other race	86.0	75.8	81.2	75.0	91.9	85.9	89.6	86.8	87.6	91.5	86.5	90.1	90.7	92.3	88.7	93.6	94.6	95.1	96.6	94.8	95.1	95.3	93.1	95.0
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	93.1	93.9	94.6	93.5	94.7	94.7	95.3	94.9
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	91.3	92.3	92.6	92.3	92.4	93.1	92.8	93.7
Diabetes	82.1	86.3	86.0	84.3	87.3	87.3	84.0	84.6	82.1	87.0	86.1	88.4	87.7	89.7	91.0	91.2	92.2	91.8	92.9	92.1	93.0	93.5	93.0	93.6
Hypertension	84.8	84.4	79.0	82.9	84.5	84.6	84.1	85.3	84.4	84.3	87.5	88.5	88.5	88.3	90.2	90.2	92.4	92.6	93.7	92.9	91.5	92.4	92.4	93.9
Glomerulonephritis	87.1	86.3	81.5	80.7	83.0	84.1	84.7	83.2	82.2	84.8	85.6	88.8	89.4	87.5	89.5	90.6	91.5	93.3	92.7	93.0	93.0	93.8	93.5	93.6
Other cause	81.3	83.6	82.1	83.1	83.5	83.6	83.8	82.7	82.0	84.8	85.5	86.4	87.5	86.9	88.4	90.4	90.0	92.3	92.2	91.9	92.8	93.4	93.6	94.3
First transplant	84.4	85.8	82.7	84.0	86.1	86.0	85.5	84.9	84.1	86.3	86.8	88.8	89.0	89.0	90.5	91.3	91.9	92.9	93.3	92.8	93.1	93.5	93.3	94.1
Subsequent transplants	77.4	78.0	77.3	73.2	74.2	78.1	77.4	76.9	73.9	79.3	82.1	83.8	84.4	82.4	85.5	86.7	89.0	89.9	90.2	90.3	90.0	91.9	91.9	91.9
All	83.6	84.9	82.1	82.5	84.2	84.6	84.2	83.7	82.5	85.2	86.0	88.0	88.3	88.1	89.8	90.6	91.5	92.5	92.8	92.4	92.7	93.3	93.1	93.8
ADJUSTED																								
0-19	87.4	85.7	81.3	82.7	83.7	80.1	84.7	81.1	76.8	81.8	80.1	86.3	85.0	85.8	87.9	86.3	91.9	93.2	91.7	89.5	90.4	94.9	93.7	96.6
20-44	83.2	84.4	81.8	82.1	84.1	85.4	84.7	83.7	82.4	85.2	85.7	88.8	88.7	88.1	90.4	91.7	92.3	93.4	94.4	93.8	93.9	94.7	94.7	95.0
45-64	78.1	81.3	79.2	80.7	82.7	82.7	82.4	84.0	83.0	84.9	86.8	86.8	88.0	88.3	89.5	90.7	91.3	92.4	92.3	92.2	92.7	93.5	92.8	93.7
65-74	100.0	88.0	100.0	77.0	90.9	100.0	86.1	76.4	80.0	84.0	85.6	87.3	86.0	88.7	89.2	86.6	88.6	89.6	91.6	90.0	90.0	89.0	92.0	92.7
75+	.	.	.	100.0	100.0	100.0	.	100.0	68.0	83.2	86.5	100.0	93.7	69.8	87.5	94.2	93.4	86.0	86.3	88.3	94.5	86.6	91.3	94.2
Male	80.9	82.5	78.8	80.5	82.3	84.7	83.3	83.0	81.7	84.3	85.9	87.8	87.9	88.4	90.3	90.7	91.7	93.5	93.3	93.5	93.6	93.3	93.6	94.3
Female	82.2	83.2	81.7	80.9	83.4	81.3	82.9	82.4	81.8	84.6	84.6	87.3	88.0	87.1	88.7	90.6	91.4	91.2	92.8	91.3	92.0	94.3	93.5	94.3
White	82.7	84.0	80.9	81.6	82.7	83.9	83.2	82.1	81.9	84.7	85.5	87.9	88.3	87.9	89.7	90.4	91.8	92.5	93.0	92.7	93.4	93.6	94.2	95.0
Black	77.5	81.0	77.8	79.4	82.7	82.5	82.7	84.7	80.9	83.2	85.8	86.9	87.0	87.6	90.1	91.1	90.4	92.3	92.7	92.0	91.4	93.3	92.1	92.5
Other race	83.7	72.3	77.6	70.5	90.8	84.2	87.8	84.7	86.3	90.9	85.2	89.3	89.9	91.5	88.5	93.0	95.1	94.9	96.5	94.7	95.1	95.3	93.1	95.2
Diabetes	79.7	83.9	83.2	81.5	85.0	85.5	81.7	82.6	80.1	85.4	84.6	87.3	86.5	89.0	90.6	90.8	91.9	91.8	93.2	92.2	93.3	93.7	93.4	94.0
Hypertension	86.0	85.1	80.4	84.3	85.9	85.8	85.8	86.6	86.0	85.7	88.6	89.7	89.6	89.3	91.3	91.3	93.3	93.5	94.6	93.7	92.7	93.6	93.5	94.9
Glomerulonephritis	85.9	84.8	79.9	79.2	82.1	83.0	83.8	82.4	81.3	83.9	85.1	88.3	89.0	87.1	89.3	90.5	91.5	93.3	92.8	93.1	93.2	93.9	93.7	94.0
Other cause	79.3	81.8	80.2	81.4	82.0	82.4	82.8	81.5	80.9	83.8	84.5	85.6	86.9	86.1	87.9	90.0	89.7	92.0	92.1	91.7	92.8	93.3	93.7	94.4
First transplant	82.2	83.7	80.5	82.2	84.7	84.9	84.4	84.0	83.4	85.6	86.3	88.4	88.7	88.9	90.5	91.4	92.1	93.1	93.7	93.1	93.5	94.0	93.9	94.7
Subsequent transplants	75.5	76.3	75.5	71.5	72.1	76.2	76.0	75.3	72.0	77.4	80.5	82.3	83.1	81.1	84.4	85.7	88.1	89.2	89.6	89.6	89.6	91.5	91.5	91.7
All	81.4	82.7	79.9	80.6	82.7	83.5	83.1	82.7	81.7	84.4	85.4	87.5	87.9	87.9	89.7	90.6	91.5	92.6	93.1	92.6	93.0	93.7	93.6	94.3

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	13.9	.	.	12.7	13.9	12.7	10.9	17.0	16.4	16.0	22.2	25.0	25.0	25.0	16.0	.	.	.	.	18.8	.	.	.	.
1-4	18.8	9.9	11.2	6.9	11.2	11.5	10.4	8.7	9.8	13.6	10.8	11.1	.	.	.	10.9	9.4	5.9	.	5.5	10.3	.	10.3	.
5-9	6.1	3.8	5.7	7.0	5.5	7.1	8.9	6.8	7.3	7.1	8.6	4.3	9.4	7.8	5.9	6.8	3.3	5.1	5.2	7.3	5.9	.	3.4	3.12
10-14	4.4	4.0	4.4	3.8	4.8	4.0	3.9	5.1	5.7	5.6	5.5	4.9	6.0	5.4	4.1	7.6	2.6	2.9	2.9	3.6	2.9	3.9	2.8	1.96
15-19	2.4	3.1	3.0	2.8	2.8	3.2	2.7	2.8	3.3	3.0	3.2	3.3	3.4	3.5	2.7	2.6	3.0	2.9	3.3	2.8	3.2	2.8	2.4	1.78
20-29	1.6	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.4	1.2	1.2	1.1	1.2	1.2	1.1	1.0	1.2	0.9	1.1	1.1	1.1	1.1	1.0	1.09
30-39	1.6	1.3	1.3	1.2	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.8	0.8	0.9	0.8	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.67
40-49	1.8	1.6	1.5	1.5	1.4	1.2	1.2	1.2	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.6	0.6	0.5
50-59	2.4	2.2	2.1	1.9	1.5	1.6	1.4	1.2	1.2	1.1	1.0	1.0	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.57
60-64	7.8	6.1	5.9	4.3	3.8	3.5	2.9	2.3	2.1	2.0	1.8	1.6	1.5	1.5	1.5	1.3	1.2	1.1	1.2	1.3	1.2	1.1	1.0	1.08
65-69	.	10.9	.	9.5	4.8	.	4.2	4.2	3.1	2.8	2.6	2.2	2.1	1.8	1.9	1.9	1.7	1.6	1.3	1.5	1.5	1.5	1.1	1.05
70-79	.	.	.	.	18.8	.	11.9	9.0	7.1	7.2	4.9	4.0	4.1	3.8	2.7	2.9	2.8	2.5	2.4	2.5	1.9	2.0	1.6	1.4
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10.9	.
Male	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.37
Female	1.3	1.2	1.2	1.1	1.0	1.1	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.45
White	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.35
Black	2.0	1.7	1.7	1.5	1.3	1.3	1.2	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.6	0.6	0.56
Other race	4.6	5.2	4.7	4.7	2.9	3.6	2.9	2.7	2.3	2.0	2.2	2.0	1.8	1.7	1.8	1.5	1.3	1.2	1.0	1.2	1.2	1.1	1.3	1.02
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.71
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.31
Diabetes	2.4	1.9	1.7	1.6	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.8	0.9	0.7	0.7	0.7	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.52
Hypertension	2.3	2.1	2.0	1.7	1.6	1.5	1.3	1.2	1.1	1.2	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.63
Glomerulonephritis	1.4	1.3	1.3	1.3	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.7	0.7	0.6	0.6	0.61
Other cause	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.54
First transplant	0.9	0.8	0.8	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Subsequent transplants	2.7	2.5	2.3	2.1	1.8	1.7	1.6	1.6	1.5	1.5	1.3	1.2	1.2	1.4	1.2	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.91
All	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.29

ADJUSTED

0-19

20-44

45-64

65-74

75+

Male

Female

White

Black

Other race

Diabetes

Hypertension

Glomerulonephritis

Other cause

First transplant

Subsequent transplants

All

Table F.2

One-year graft survival probabilities: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	66.7	80.0	100.0	72.7	50.0	72.7	75.0	57.1	33.3	80.0	33.3	50.0	50.0	50.0	80.0	.	100.0	100.0	100.0	75.0	100.0	66.7	.	100.0
1-4	75.0	66.7	68.8	69.6	62.5	52.9	62.5	65.0	66.7	70.0	73.3	72.7	88.9	100.0	100.0	75.0	81.3	93.8	100.0	88.2	75.0	100.0	78.6	91.7
5-9	73.1	77.8	72.2	71.0	79.2	73.3	56.5	59.4	67.7	78.6	66.7	86.4	81.3	85.0	83.9	82.8	89.7	92.3	90.3	81.0	93.8	100.0	96.4	87.1
10-14	66.7	75.7	71.6	64.4	70.2	81.1	77.9	70.3	69.1	68.0	70.6	84.9	83.8	83.3	90.2	69.7	92.3	91.4	91.7	93.5	97.1	85.7	93.9	91.4
15-19	79.0	73.0	73.0	71.7	70.9	65.7	76.4	75.8	71.4	73.9	78.2	79.0	80.6	80.8	79.7	79.7	87.4	89.3	78.7	81.8	84.7	90.6	94.6	89.1
20-29	67.6	69.1	71.9	71.3	71.6	76.0	72.3	76.1	74.7	80.3	80.0	82.8	81.1	82.8	84.5	87.1	86.5	89.5	89.3	89.0	88.6	91.2	90.0	90.1
30-39	64.2	65.0	67.2	65.0	73.1	76.6	73.6	74.2	75.5	77.7	80.3	84.3	83.2	81.5	84.1	86.8	88.5	88.7	90.1	88.3	90.5	90.5	89.6	89.8
40-49	61.8	65.7	66.0	63.5	67.6	72.6	71.9	70.0	73.6	78.2	78.8	80.9	83.8	83.4	84.7	85.9	86.8	88.3	90.4	89.8	88.8	90.1	88.9	91.3
50-59	59.2	58.5	59.2	61.1	72.4	69.9	71.4	74.9	75.4	78.2	79.1	81.0	80.2	82.1	82.9	84.8	85.3	86.3	86.0	85.5	86.6	87.2	88.0	88.4
60-64	52.0	43.6	59.6	65.6	68.2	73.8	72.4	71.0	76.7	77.4	77.1	82.3	81.4	81.6	82.9	82.5	83.3	86.6	83.4	83.1	82.5	85.0	86.5	84.3
65-69	75.0	62.5	100.0	55.6	60.0	72.4	74.0	58.8	69.8	74.8	76.8	80.2	83.0	77.8	79.2	79.6	80.8	81.5	83.5	83.0	82.2	82.1	84.6	87.2
70-79	100.0	0.0	.	100.0	25.0	40.0	75.0	82.4	63.9	75.0	71.7	79.3	82.5	69.9	78.2	79.5	84.0	79.2	77.6	80.0	83.4	77.7	81.0	84.8
80+	.	.	.	.	100.0	.	.	.	.	.	.	100.0	66.7	.	50.0	100.0	100.0	100.0	100.0	75.0	83.3	100.0	75.0	91.7
Male	64.3	65.6	66.1	65.7	71.0	74.4	72.4	72.9	73.7	78.2	79.0	82.1	82.1	82.8	83.7	84.6	86.4	87.8	87.2	87.4	87.4	87.2	87.5	88.4
Female	65.6	66.2	69.2	65.9	70.8	72.6	72.8	73.1	75.5	77.7	79.0	82.0	82.6	80.7	83.5	85.9	85.8	86.5	88.1	85.9	87.0	89.1	88.9	89.3
White	67.2	68.7	69.1	67.8	72.1	74.6	73.9	73.0	75.3	78.9	79.6	82.6	82.8	82.2	84.0	84.9	86.7	87.7	87.8	87.7	88.6	88.5	89.1	89.5
Black	56.7	56.4	61.5	59.5	66.5	70.7	68.2	72.4	70.8	73.7	77.2	79.5	79.9	80.7	82.1	84.8	84.8	85.6	86.1	84.0	84.0	86.6	85.7	86.6
Other race	57.9	57.6	63.8	61.9	76.7	77.2	77.4	75.5	80.9	87.8	79.3	87.5	87.0	85.3	85.2	89.4	85.7	92.5	92.9	91.3	89.6	90.3	89.0	91.3
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	87.9	89.6	92.0	89.0	91.1	91.5	92.3	90.9
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	86.0	87.1	87.0	86.5	86.7	87.4	87.4	88.4
Diabetes	61.5	66.8	68.4	62.8	72.4	76.4	72.1	73.3	73.7	80.7	78.7	81.8	81.7	82.9	84.7	86.1	86.4	86.2	87.2	87.0	86.5	88.2	87.4	88.1
Hypertension	64.8	65.2	64.0	66.3	70.2	73.3	72.0	72.3	75.6	76.8	78.5	82.3	82.2	82.8	83.3	84.8	87.3	86.2	86.3	86.2	85.0	85.7	86.2	87.8
Glomerulonephritis	69.0	66.4	67.8	67.7	72.1	74.7	74.0	73.7	75.3	78.0	79.9	82.9	83.4	82.3	83.6	84.7	86.0	89.0	88.5	86.7	88.7	89.4	89.1	88.8
Other cause	62.9	65.3	67.7	65.3	69.4	71.4	72.0	72.4	73.4	76.6	78.7	81.3	81.7	80.0	82.6	84.5	85.1	87.8	88.0	87.2	88.4	88.3	89.4	90.1
First transplant	65.7	66.9	68.2	67.6	73.0	75.9	73.8	74.0	76.0	79.3	80.0	82.8	82.8	82.5	84.2	85.8	86.5	87.7	88.1	87.3	87.8	88.4	88.2	89.3
Subsequent transplants	57.3	57.5	60.4	54.7	60.3	63.6	66.1	67.2	65.6	70.5	74.0	77.7	79.0	78.1	79.5	80.6	84.0	85.2	84.6	84.0	84.1	85.3	86.7	84.9
All	64.8	65.8	67.3	65.8	70.9	73.7	72.6	73.0	74.4	78.0	79.0	82.1	82.3	82.0	83.6	85.1	86.2	87.3	87.6	86.8	87.3	88.0	88.0	88.7
ADJUSTED																								
0-19	70.6	70.4	69.8	66.8	68.2	66.4	71.8	69.8	67.4	71.5	72.4	79.5	80.4	81.1	82.4	77.9	88.2	90.2	85.1	84.0	87.2	91.0	93.1	89.0
20-44	63.6	64.7	67.1	65.1	71.2	75.8	73.0	73.5	74.5	78.6	79.5	83.1	82.9	82.4	84.8	86.9	87.6	89.1	90.4	89.0	90.2	90.9	90.4	90.8
45-64	55.1	58.3	60.5	61.9	68.1	70.0	70.7	72.0	74.5	77.0	78.6	80.7	81.3	82.3	83.3	84.7	85.6	87.1	86.8	86.4	86.5	87.9	87.9	88.5
65-74	78.5	53.2	100.0	54.9	50.9	65.3	72.3	59.6	67.2	73.0	74.3	78.7	82.0	76.3	78.7	79.3	81.3	80.9	82.1	82.4	82.5	81.0	83.6	86.8
75+	.	.	.	100.0	100.0	100.0	.	100.0	68.0	83.2	72.8	100.0	81.0	42.2	68.7	76.8	80.5	75.6	77.2	76.4	86.3	76.6	80.4	84.5
Male	59.8	61.6	62.3	62.4	68.5	72.6	70.7	71.4	72.7	77.1	78.3	81.5	81.7	82.5	83.6	84.6	86.5	88.2	87.7	87.9	88.0	88.0	88.3	89.3
Female	61.4	61.9	66.2	62.8	68.3	70.6	71.2	71.3	74.1	76.4	77.7	81.2	81.8	80.1	83.1	85.7	85.8	86.5	88.2	85.9	87.3	89.4	89.3	89.8
White	62.6	64.5	65.4	64.2	69.5	72.6	71.9	71.2	74.0	77.8	78.8	82.1	82.5	82.0	83.9	85.0	87.0	87.9	88.2	88.0	89.1	89.1	89.9	90.4
Black	55.3	54.9	60.3	58.7	65.6	70.1	67.8	72.1	70.5	73.4	76.9	79.2	79.6	80.6	82.0	84.7	84.7	85.7	86.2	84.1	84.1	86.7	85.9	86.8
Other race	52.9	52.5	58.0	56.0	74.1	74.5	73.8	72.0	79.0	87.0	77.5	86.5	86.0	84.1	84.6	88.3	85.1	92.2	92.6	91.2	89.6	90.4	89.0	91.6
Diabetes	55.5	61.4	63.1	57.4	67.6	73.2	68.4	70.1	71.0	78.4	76.4	80.0	80.1	81.6	83.7	85.4	86.0	86.2	87.3	87.1	87.0	88.6	87.9	88.9
Hypertension	66.3	66.5	66.3	68.4	72.7	75.2	74.6	74.3	77.7	78.7	80.3	83.8	83.9	84.3	84.9	86.3	88.7	87.8	88.0	87.8	87.0	87.7	88.2	89.5
Glomerulonephritis	66.2	63.3	65.0	65.1	70.4	73.2	72.1	72.2	74.1	76.8	79.1	82.2	82.8	81.7	83.3	84.5	85.9	89.0	88.5	86.9	88.9	89.7	89.4	89.3
Other cause	59.3	62.0	64.7	62.4	66.9	69.7	70.3	70.9	71.7	75.0	77.4	80.2	80.7	78.9	81.8	83.8	84.6	87.5	87.9	87.0	88.4	88.2	89.4	90.2
First transplant	61.4	62.8	64.7	64.3	70.4	74.1	72.0	72.5	74.9	78.3	79.2	82.3	82.5	82.4	84.3	86.0	86.8	88.1	88.6	87.8	88.5	89.2	89.2	90.2
Subsequent transplants	53.7	54.2	57.4	52.0	57.7	61.0	64.1	64.9	63.1	67.9	71.8	75.8	77.3	76.3	77.9	78.9	82.7	84.2	83.5	83.0	83.1	84.6	86.1	84.2
All	60.3	61.7	63.7	62.5	68.4	71.9	70.8	71.3	73.1	76.8	78.1	81.4	81.7	81.6	83.4	85.0	86.2	87.5	87.9	87.1	87.8	88.6	88.7	89.5

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	17.4	16.0	.	12.7	16.4	12.7	14.2	17.0	16.4	16.0	20.0	25.0	25.0	25.0	16.0	.	.	.	.	18.8	.	22.2	.	.
1-4	18.8	14.7	11.2	9.3	11.6	11.6	11.6	10.3	12.7	13.6	10.8	12.7	9.9	.	.	14.2	9.4	5.9	.	7.6	11.9	.	10.3	7.64
5-9	8.5	6.8	7.3	8.0	8.1	7.9	10.0	8.5	8.2	7.6	9.4	7.1	9.4	7.8	6.5	6.8	5.6	5.1	5.2	8.2	5.9	.	3.4	5.92
10-14	5.9	5.1	5.0	5.1	6.0	5.3	5.0	5.6	6.2	6.5	6.3	6.1	6.0	6.7	4.1	7.8	3.7	3.7	4.0	3.6	2.9	5.8	3.4	3.31
15-19	3.6	3.9	3.8	3.6	3.7	4.0	3.5	3.4	3.8	3.7	3.7	3.8	4.0	3.9	3.3	3.6	3.4	3.5	4.2	3.5	3.6	3.2	2.4	2.96
20-29	2.1	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.6	1.4	1.4	1.3	1.4	1.4	1.4	1.2	1.4	1.3	1.3	1.4	1.4	1.3	1.4	1.4
30-39	2.1	1.8	1.6	1.5	1.4	1.3	1.2	1.2	1.1	1.2	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.89
40-49	2.2	2.1	1.9	1.8	1.7	1.5	1.4	1.4	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.69
50-59	2.9	2.8	2.6	2.3	1.9	1.9	1.6	1.5	1.4	1.3	1.2	1.2	1.2	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.74
60-64	9.6	7.8	6.7	5.9	4.4	4.0	3.4	3.0	2.3	2.4	2.2	1.9	2.0	1.8	1.8	1.7	1.6	1.5	1.7	1.6	1.6	1.4	1.3	1.32
65-69	14.2	15.8	.	11.3	10.6	8.1	6.1	5.0	3.8	3.6	3.2	2.6	2.4	2.5	2.4	2.3	2.1	2.0	1.8	1.9	1.8	1.8	1.6	1.35
70-79	.	.	.	.	16.3	18.5	11.9	9.0	7.9	7.5	6.1	5.3	4.2	4.7	3.9	3.6	3.3	3.4	3.2	3.1	2.5	2.6	2.2	1.9
80+	.	.	.	.	.	.	.	.	.	.	.	.	22.2	.	25.0	.	.	.	.	18.8	13.9	.	14.2	7.64
Male	1.3	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.49
Female	1.7	1.6	1.4	1.4	1.3	1.3	1.1	1.1	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.59
White	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.46
Black	2.4	2.2	2.0	1.8	1.7	1.5	1.4	1.4	1.3	1.3	1.1	1.1	1.1	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.72
Other race	6.5	6.0	5.7	5.3	4.5	4.4	4.0	3.5	2.7	2.4	2.6	2.2	2.0	2.2	2.0	1.8	2.0	1.5	1.4	1.5	1.6	1.6	1.6	1.32
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.4	1.2	1.0	1.2	1.1	1.0	0.9	0.93
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.41
Diabetes	3.1	2.5	2.2	2.1	1.8	1.6	1.5	1.4	1.3	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7	0.69
Hypertension	3.1	2.7	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.4	1.2	1.1	1.1	1.1	1.0	1.0	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.86
Glomerulonephritis	1.9	1.8	1.6	1.5	1.3	1.3	1.2	1.2	1.1	1.1	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.78
Other cause	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.9	0.8	0.8	0.8	0.7
First transplant	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.39
Subsequent transplants	3.2	2.9	2.7	2.4	2.1	1.9	1.8	1.8	1.7	1.7	1.4	1.4	1.4	1.5	1.4	1.3	1.3	1.2	1.2	1.3	1.3	1.2	1.1	1.2
All	1.1	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.38

ADJUSTED

0-19

20-44

45-64

65-74

75+

Male

Female

White

Black

Other race

Diabetes

Hypertension

Glomerulonephritis

Other cause

First transplant

Subsequent transplants

All

Table F.3

Two-year graft survival probabilities: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	33.3	80.0	100.0	63.6	50.0	63.6	75.0	57.1	33.3	80.0	33.3	50.0	50.0	50.0	80.0	.	100.0	33.3	100.0	75.0	100.0	66.7	.
1-4	50.0	66.7	56.3	60.9	56.3	52.9	62.5	60.0	66.7	70.0	66.7	63.6	88.9	100.0	100.0	75.0	75.0	87.5	100.0	88.2	66.7	100.0	78.6
5-9	61.5	61.1	63.9	67.7	66.7	66.7	52.2	59.4	67.7	78.6	62.5	77.3	81.3	85.0	83.9	72.4	82.8	88.5	87.1	81.0	87.5	96.3	89.3
10-14	57.1	64.3	65.4	54.0	59.7	67.9	61.8	60.9	60.0	62.0	62.8	78.8	73.0	76.7	84.3	57.6	84.6	87.9	85.4	91.3	94.1	77.1	87.8
15-19	70.2	64.3	59.1	66.7	63.6	58.6	68.8	66.7	64.3	63.4	69.4	68.4	69.4	71.7	71.0	70.7	74.7	77.3	71.3	75.2	68.4	78.8	82.6
20-29	59.5	61.0	63.4	63.2	63.9	67.2	64.5	66.4	65.9	73.4	73.0	76.7	75.0	77.0	78.7	81.0	79.9	84.0	83.2	81.4	81.3	86.3	84.0
30-39	55.4	56.3	56.1	55.9	62.7	66.5	64.9	65.3	68.8	70.9	74.3	79.0	77.6	76.1	79.3	82.6	83.7	82.7	86.5	84.1	83.5	85.2	85.2
40-49	49.2	57.7	56.5	53.8	59.6	64.6	63.1	62.2	67.2	71.8	72.9	76.1	78.0	78.0	78.6	81.3	80.7	83.3	85.2	84.6	83.6	83.9	84.1
50-59	48.9	49.7	51.1	50.2	63.5	64.1	63.2	67.0	69.4	72.0	74.5	76.3	74.2	76.1	77.7	80.6	80.1	80.9	80.7	80.9	81.2	80.7	81.9
60-64	48.0	35.9	51.9	57.8	57.3	63.1	64.9	64.3	71.1	69.1	71.9	77.7	75.8	75.4	76.2	76.5	77.9	80.7	76.4	78.0	78.4	78.5	79.2
65-69	50.0	50.0	100.0	44.4	55.0	58.6	64.0	53.6	63.1	69.4	73.2	74.5	76.4	73.0	71.7	72.3	75.6	74.3	78.2	75.0	76.7	76.3	76.7
70-79	50.0	0.0	.	50.0	0.0	40.0	66.7	82.4	61.1	65.6	67.9	70.7	77.5	59.1	71.8	71.3	77.6	72.9	69.0	72.4	75.3	72.5	75.2
80+	.	.	.	.	0.0	.	.	.	.	.	.	100.0	66.7	.	50.0	100.0	100.0	100.0	80.0	50.0	66.7	100.0	50.0
Male	54.8	56.9	57.1	56.0	61.7	65.7	63.6	64.0	66.7	71.4	72.9	76.7	75.6	76.8	78.1	79.4	80.8	81.7	82.0	82.2	81.7	81.3	81.3
Female	54.9	57.8	58.6	58.0	62.5	64.2	65.0	65.8	69.3	71.2	73.8	77.0	77.5	75.3	77.6	81.1	80.0	81.6	82.7	80.4	80.4	83.0	83.6
White	57.9	60.6	60.5	59.5	64.0	67.9	66.6	66.4	70.2	73.5	74.7	78.2	78.0	77.5	79.3	80.9	81.9	82.7	83.7	83.6	83.5	83.1	83.9
Black	44.5	45.9	48.5	47.9	54.8	57.2	56.3	59.1	59.4	62.7	68.8	71.5	70.7	71.4	73.9	77.0	76.3	78.6	78.4	75.8	76.2	78.9	78.4
Other race	45.6	47.0	53.6	53.6	67.4	65.2	70.8	68.2	75.1	81.5	73.4	83.6	81.5	83.0	79.9	85.5	82.8	86.6	86.5	86.9	83.0	85.6	83.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	83.8	85.0	88.7	85.8	86.8	86.0	87.7
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	80.1	81.3	81.4	80.9	80.5	81.3	81.4
Diabetes	52.4	58.6	57.2	53.8	61.2	68.6	64.1	64.4	68.0	74.2	72.5	76.4	75.4	76.5	79.6	81.1	80.7	79.9	81.3	81.5	80.4	81.6	81.3
Hypertension	53.3	58.3	52.7	55.6	59.5	60.3	60.6	61.4	67.0	67.3	71.5	75.4	74.8	74.6	76.5	78.0	80.3	80.3	80.1	79.4	78.3	79.4	79.0
Glomerulonephritis	60.6	57.9	59.1	58.9	64.4	67.0	65.6	66.8	68.9	71.8	74.2	78.1	77.4	78.0	77.9	80.1	79.7	83.1	83.4	81.3	82.6	83.9	84.0
Other cause	52.1	55.9	58.5	56.7	61.2	63.8	64.7	64.9	66.9	70.9	74.0	76.8	77.3	75.5	77.3	80.5	81.0	83.2	84.0	83.3	83.0	82.7	84.5
First transplant	55.9	58.3	58.7	58.8	64.1	67.7	65.6	65.5	69.3	72.3	74.4	77.8	77.0	76.8	78.5	80.9	80.7	82.1	82.8	81.9	81.9	82.4	82.4
Subsequent transplants	46.6	48.9	49.8	44.0	51.0	53.3	56.6	60.4	59.2	65.3	67.3	71.2	72.7	72.4	73.9	74.7	78.7	79.2	79.3	79.1	77.3	78.6	81.2
All	54.8	57.2	57.6	56.7	62.0	65.2	64.1	64.7	67.7	71.3	73.2	76.8	76.3	76.2	77.9	80.0	80.4	81.7	82.3	81.5	81.2	81.9	82.2
ADJUSTED																							
0-19	59.1	59.1	58.4	59.6	59.5	57.9	62.2	62.0	60.9	63.5	64.3	69.8	70.7	73.7	75.5	68.5	78.0	81.1	78.9	79.5	75.0	82.0	83.8
20-44	54.0	56.3	57.0	56.1	61.8	66.5	64.5	64.6	67.3	71.5	73.3	77.8	76.9	77.0	79.4	82.1	82.1	83.6	85.9	83.5	83.8	85.9	85.9
45-64	44.1	49.3	51.7	51.5	59.6	62.5	62.4	64.3	68.3	70.7	73.5	75.9	75.6	76.3	77.6	80.2	80.1	81.9	81.4	82.0	81.4	81.5	82.0
65-74	48.1	41.7	100.0	39.3	42.6	52.9	62.2	55.1	61.6	66.5	70.5	72.5	75.6	69.6	71.2	71.9	76.0	73.7	75.5	74.0	76.8	75.6	76.1
75+	.	.	.	100.0	0.0	100.0	.	100.0	52.9	83.2	73.4	77.9	74.9	42.7	68.8	65.7	67.7	72.7	73.2	73.7	67.7	69.0	75.3
Male	49.8	52.3	52.8	52.3	58.6	63.6	61.5	62.2	65.5	70.0	72.0	76.0	75.1	76.4	78.1	79.4	81.0	82.3	82.7	82.9	82.6	82.4	82.5
Female	50.1	52.9	55.0	54.4	59.6	61.8	63.1	63.8	67.6	69.7	72.3	76.0	76.6	74.7	77.2	80.8	79.9	81.5	82.8	80.5	80.9	83.5	84.2
White	52.7	55.9	56.2	55.3	60.8	65.4	64.2	64.3	68.6	72.2	73.8	77.6	77.6	77.2	79.2	80.9	82.2	83.0	84.2	84.0	84.3	84.0	85.0
Black	43.0	44.5	47.2	47.1	53.8	56.4	55.8	58.6	59.1	62.3	68.4	71.2	70.4	71.3	73.8	76.9	76.3	78.6	78.5	76.0	76.3	79.2	78.7
Other race	40.3	41.5	47.1	46.9	64.0	61.5	66.4	64.0	72.7	80.2	71.1	82.3	80.0	81.6	79.1	84.0	82.2	86.1	85.8	86.8	83.0	85.7	83.9
Diabetes	45.7	52.7	51.0	47.9	55.3	64.6	59.8	60.5	65.0	71.3	69.8	74.3	73.3	74.9	78.4	80.2	80.1	79.9	81.4	81.6	81.1	82.1	82.0
Hypertension	55.1	59.7	55.6	58.3	62.7	62.7	64.0	64.0	69.6	69.9	73.9	77.4	77.1	76.7	78.7	80.1	82.3	82.5	82.5	81.7	81.0	82.3	81.8
Glomerulonephritis	57.5	54.5	55.9	55.9	62.4	65.1	63.3	65.0	67.4	70.3	73.2	77.2	76.7	77.2	77.5	79.8	79.6	83.1	83.4	81.6	82.9	84.3	84.5
Other cause	48.0	52.1	55.1	53.3	58.3	61.8	62.7	63.1	65.0	69.1	72.5	75.5	76.0	74.1	76.3	79.6	80.4	82.8	83.8	83.1	83.0	82.7	84.5
First transplant	50.9	53.6	54.7	55.0	60.9	65.4	63.4	63.7	68.0	71.1	73.4	77.2	76.5	76.6	78.7	81.1	81.2	82.7	83.5	82.7	83.0	83.7	83.7
Subsequent transplants	42.8	45.5	46.5	41.2	48.2	50.3	54.3	57.8	56.5	62.5	64.8	68.9	70.6	70.3	72.0	72.7	77.1	77.8	77.9	77.8	75.9	77.6	80.3
All	40.9	43.6	44.6	39.3	46.3	48.5	52.5	56.1	54.7	60.9	63.2	67.4	69.2	69.0	70.7	71.4	76.0	76.7	76.8	76.7	74.7	76.5	79.3

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	16.4	16.0	.	13.7	16.4	13.7	14.2	17.0	16.4	16.0	20.0	25.0	25.0	25.0	16.0	.	.	20.0	.	18.8	.	22.2	.
1-4	20.8	14.7	11.9	9.9	11.9	11.6	11.6	10.6	12.7	13.6	11.6	13.7	9.9	.	.	14.2	10.4	8.0	.	7.6	12.9	.	10.3
5-9	9.3	8.0	7.9	8.2	9.3	8.4	10.1	8.5	8.2	7.6	9.6	8.7	9.4	7.8	6.5	8.1	6.9	6.1	5.9	8.2	8.0	3.6	5.7
10-14	6.2	5.7	5.2	5.3	6.4	6.3	5.8	6.0	6.5	6.8	6.7	7.0	7.2	7.6	5.0	8.4	5.0	4.2	5.0	4.1	4.0	7.0	4.6
15-19	4.1	4.3	4.2	3.7	3.9	4.1	3.8	3.8	4.0	4.0	4.1	4.3	4.6	4.5	3.7	4.1	4.4	4.8	4.6	3.9	4.7	4.4	3.9
20-29	2.2	2.1	2.0	1.9	1.8	1.8	1.7	1.7	1.7	1.5	1.5	1.4	1.6	1.5	1.5	1.4	1.6	1.5	1.6	1.7	1.7	1.6	1.7
30-39	2.1	1.9	1.7	1.6	1.5	1.5	1.4	1.4	1.2	1.3	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.0	1.1	1.1	1.0	1.0
40-49	2.3	2.2	1.9	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.9	1.0	1.0	0.9	0.9
50-59	3.0	2.8	2.6	2.4	2.1	2.0	1.8	1.6	1.5	1.4	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.0	0.9
60-64	9.6	7.5	6.8	6.1	4.7	4.3	3.6	3.2	2.4	2.7	2.4	2.0	2.2	2.0	2.0	1.9	1.8	1.7	1.9	1.7	1.7	1.7	1.5
65-69	16.1	16.1	.	11.2	10.7	8.9	6.7	5.0	3.9	3.8	3.4	2.9	2.7	2.7	2.7	2.5	2.3	2.3	2.0	2.2	2.0	2.0	1.8
70-79	25.0	.	.	25.0	.	18.5	12.9	9.0	8.0	8.2	6.3	5.9	4.6	5.1	4.3	4.1	3.7	3.7	3.5	3.4	2.9	2.8	2.5
80+	.	.	.	.	.	.	.	.	.	.	.	.	22.2	.	25.0	.	.	.	16.0	20.8	17.4	.	16.1
Male	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Female	1.8	1.7	1.5	1.5	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.7
White	1.3	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Black	2.4	2.3	2.0	1.9	1.8	1.7	1.5	1.5	1.4	1.4	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9
Other race	6.5	6.1	5.9	5.4	5.0	4.9	4.4	3.8	3.0	2.8	2.9	2.4	2.4	2.3	2.2	2.1	2.1	1.9	1.9	1.8	2.0	1.9	1.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.6	1.4	1.2	1.3	1.3	1.2	1.1
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.5	0.5	0.5	0.5	0.6	0.5	0.5
Diabetes	3.1	2.7	2.4	2.2	1.9	1.7	1.6	1.5	1.4	1.2	1.2	1.1	1.1	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9
Hypertension	3.2	2.8	2.4	2.2	2.1	2.0	1.8	1.7	1.5	1.5	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.1	1.1
Glomerulonephritis	2.0	1.9	1.7	1.6	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.0	1.1	1.1	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.9
Other cause	1.6	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	0.9
First transplant	1.2	1.1	1.0	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Subsequent transplants	3.3	3.0	2.8	2.4	2.1	2.0	1.9	1.9	1.7	1.7	1.5	1.5	1.5	1.6	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.3
All	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

ADJUSTED

0-19
20-44
45-64
65-74
75+

Male
Female

White
Black
Other race

Diabetes
Hypertension
Glomerulonephritis
Other cause

First transplant
Subsequent transplants

All

Table F.4

Three-year graft survival probabilities: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	
<1	16.7	80.0	100.0	63.6	50.0	63.6	50.0	57.1	33.3	80.0	0.0	50.0	50.0	50.0	80.0	.	100.0	33.3	100.0	50.0	0.0	66.7	
1-4	50.0	44.4	56.3	56.5	43.8	41.2	62.5	60.0	66.7	70.0	66.7	63.6	88.9	100.0	66.7	75.0	66.7	75.0	81.3	100.0	76.5	66.7	87.5
5-9	57.7	55.6	55.6	64.5	54.2	63.3	43.5	56.3	67.7	75.0	62.5	77.3	75.0	75.0	80.7	72.4	79.3	88.5	87.1	76.2	87.5	77.8	
10-14	49.2	52.9	54.3	48.3	52.6	56.6	48.5	57.8	49.1	56.0	51.0	75.8	70.3	63.3	76.5	51.5	75.0	82.8	79.2	87.0	82.4	74.3	
15-19	61.3	58.7	55.5	57.9	57.6	52.9	59.0	52.9	54.3	57.8	58.9	63.2	61.2	62.6	65.5	59.4	61.1	65.3	58.5	66.9	60.2	74.1	
20-29	55.1	53.4	57.2	57.7	57.0	59.2	58.0	59.4	60.9	66.1	66.2	71.1	69.5	69.5	72.6	74.1	74.1	78.2	76.7	75.5	76.6	80.1	
30-39	48.3	50.4	48.3	49.5	55.0	58.0	57.7	58.4	63.2	64.9	69.6	73.8	73.2	70.5	74.6	77.5	78.2	77.7	80.6	79.0	76.7	80.4	
40-49	43.3	48.9	50.2	46.8	53.4	57.3	54.5	54.4	60.9	66.5	67.5	69.8	71.8	72.2	74.1	75.4	76.0	77.4	79.4	79.2	79.0	79.6	
50-59	43.7	41.5	44.6	43.6	57.0	57.0	54.5	60.6	64.6	66.0	69.2	70.1	68.9	71.9	71.8	75.2	75.7	75.5	75.2	76.1	75.7	75.4	
60-64	44.0	33.3	40.4	43.8	45.5	54.1	60.3	55.7	66.2	64.1	66.7	71.7	71.7	67.9	70.3	69.4	73.2	72.9	70.5	73.2	72.1	71.6	
65-69	50.0	25.0	100.0	44.4	50.0	51.7	58.0	50.5	57.1	61.2	64.9	67.0	70.1	66.3	66.8	67.2	70.2	65.5	71.3	66.8	71.7	70.2	
70-79	0.0	0.0	.	50.0	0.0	40.0	58.3	70.6	52.8	59.4	62.3	65.5	68.8	53.8	64.6	60.7	70.4	65.3	63.8	65.3	68.6	65.2	
80+	.	.	.	.	0.0	.	.	.	.	.	.	100.0	66.7	.	50.0	100.0	66.7	100.0	60.0	50.0	66.7	75.0
Male	49.3	49.7	49.7	49.5	54.0	57.6	55.5	56.6	61.0	65.2	67.6	70.3	70.0	70.6	72.7	73.5	75.9	75.6	76.1	77.2	76.2	75.6	
Female	47.9	49.9	52.8	51.4	56.4	57.1	57.9	59.1	63.8	65.6	67.6	71.9	72.5	70.0	72.5	75.2	74.5	75.8	76.7	74.2	74.7	78.1	
White	52.0	53.5	54.1	53.4	57.2	60.8	60.3	59.7	65.2	68.2	69.8	73.4	73.2	72.3	75.1	75.9	77.6	77.5	78.1	78.6	78.6	78.4	
Black	38.3	36.7	40.4	39.5	46.9	47.5	44.2	50.2	51.7	54.5	60.6	62.7	63.4	63.4	66.1	68.2	69.2	70.4	71.6	69.4	68.6	71.9	
Other race	38.6	43.9	46.4	52.4	61.6	57.6	67.0	61.6	69.4	76.2	70.0	77.6	77.0	78.3	74.8	81.9	77.7	81.7	80.4	80.8	79.8	82.1	
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	79.8	81.2	84.0	80.5	82.6	81.6
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	74.9	75.0	75.3	75.4	74.7	75.8
Diabetes	48.0	54.8	48.5	48.1	53.8	59.8	56.5	56.3	63.2	68.1	67.3	71.6	68.5	70.7	74.2	75.6	75.4	74.1	75.0	75.6	74.8	75.7	
Hypertension	47.1	49.7	47.7	46.0	52.2	52.9	51.1	53.2	58.9	59.4	64.1	67.4	68.3	68.1	70.8	69.6	73.9	73.4	74.2	72.8	71.2	72.9	
Glomerulonephritis	54.3	51.2	52.4	52.3	58.1	59.3	58.7	59.9	63.5	66.3	68.7	72.4	72.8	71.8	72.0	74.4	75.4	77.0	76.9	76.2	76.9	79.6	
Other cause	45.9	47.2	51.8	51.1	53.7	56.6	57.1	58.7	62.0	65.8	69.2	71.4	73.5	70.4	73.3	75.9	76.3	77.7	78.9	78.7	78.8	77.9	
First transplant	50.1	50.8	51.9	52.4	57.0	60.0	57.9	58.0	63.8	66.2	68.7	72.1	71.3	71.0	73.1	75.0	75.6	76.1	77.0	76.5	76.5	77.1	
Subsequent transplants	38.9	42.6	42.7	36.3	44.0	45.6	48.6	55.0	52.9	60.0	61.8	64.4	69.0	66.1	70.0	68.5	73.4	72.8	72.8	73.5	70.6	73.0	
All	48.8	49.8	50.8	50.2	54.9	57.4	56.4	57.5	62.1	65.3	67.6	70.9	71.0	70.4	72.6	74.1	75.3	75.6	76.4	76.0	75.6	76.6	
ADJUSTED																							
0-19	50.9	51.3	52.3	52.9	52.6	51.2	51.5	53.5	52.7	58.7	55.3	66.3	64.6	64.2	69.4	60.4	68.2	73.6	70.9	71.8	67.1	75.3	
20-44	47.8	49.3	50.3	49.8	54.2	58.2	57.1	57.4	61.6	65.3	68.0	72.2	71.9	71.1	74.5	76.3	77.0	78.2	79.9	78.5	78.2	81.1	
45-64	39.2	40.8	44.2	43.9	53.2	55.5	54.4	57.1	63.0	65.1	67.8	69.7	70.1	70.9	72.3	74.5	75.5	76.0	75.9	77.0	76.2	76.3	
65-74	38.3	20.1	100.0	39.3	38.5	46.8	55.7	50.5	54.8	58.7	62.7	65.1	68.2	62.8	65.8	65.4	69.8	65.2	68.9	65.8	71.0	69.1	
75+	.	.	.	100.0	0.0	100.0	.	100.0	53.1	64.8	61.4	78.9	75.5	42.3	56.9	55.0	61.6	64.0	67.7	72.0	65.9	61.8	
Male	44.2	45.0	45.2	45.5	50.7	55.1	53.3	54.6	59.6	63.6	66.7	69.5	69.5	70.2	72.7	73.5	76.1	76.3	76.9	78.0	77.3	77.0	
Female	42.8	44.6	48.9	47.7	53.3	54.5	55.8	56.9	61.9	63.9	65.9	70.7	71.4	69.3	72.0	74.9	74.4	75.7	76.8	74.4	75.3	78.7	
White	46.5	48.4	49.5	48.9	53.7	58.0	57.6	57.5	63.5	66.8	68.8	72.7	72.8	72.0	75.0	76.0	78.0	77.9	78.8	79.2	79.6	79.5	
Black	36.7	35.3	39.1	38.7	45.8	46.6	43.7	49.7	51.4	60.2	62.4	62.4	63.0	63.3	66.0	68.1	69.1	70.4	71.7	69.6	68.8	72.2	
Other race	33.4	38.6	39.7	45.8	57.9	53.3	62.3	57.0	66.7	74.7	67.5	75.9	75.3	76.7	73.9	80.2	76.9	81.0	79.4	80.7	79.7	82.1	
Diabetes	41.2	48.7	42.1	42.1	47.5	55.2	51.9	52.1	59.9	64.7	64.3	69.2	66.0	68.9	72.7	74.5	74.6	74.1	75.2	75.8	75.6	76.4	
Hypertension	49.1	51.2	50.8	48.9	55.8	55.6	55.0	56.1	62.0	62.4	66.9	69.9	71.2	70.6	73.4	72.4	76.4	76.2	77.1	75.6	74.6	76.4	
Glomerulonephritis	50.8	47.5	48.8	49.1	55.9	57.0	56.2	58.0	61.8	64.6	67.6	71.4	71.9	70.9	71.5	74.0	75.3	77.0	76.9	76.6	77.3	80.1	
Other cause	41.7	43.1	48.1	47.5	50.6	54.3	54.9	56.8	59.9	63.8	67.5	69.8	72.1	68.8	72.2	74.9	75.6	77.2	78.8	78.4	78.7	77.8	
First transplant	35.8	37.2	42.2	41.7	44.8	48.7	49.3	51.3	54.6	58.7	62.7	65.4	67.8	64.2	67.9	71.0	71.7	73.5	75.3	74.9	75.3	74.3	
Subsequent transplants	35.1	39.0	39.3	33.5	41.2	42.5	46.1	52.3	49.9	56.9	59.0	61.6	66.7	63.7	67.8	66.1	71.4	71.1	71.0	71.9	68.9	71.7	
All	33.2	37.1	37.4	31.7	39.3	40.6	44.2	50.5	48.1	55.2	57.3	60.0	65.2	62.2	66.4	64.6	70.1	69.8	69.7	70.6	67.5	70.5	

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	11.7	16.0	.	13.7	16.4	13.7	16.1	17.0	16.4	16.0	.	25.0	25.0	25.0	16.0	.	.	20.0	.	20.8	.	22.2
1-4	20.8	15.2	11.9	10.0	11.8	11.4	11.6	10.6	12.7	13.6	11.6	13.7	9.9	.	17.4	14.2	10.4	9.4	.	9.9	12.9	10.9
5-9	9.4	8.1	8.1	8.4	9.8	8.6	10.0	8.6	8.2	8.0	9.6	8.7	10.4	9.4	7.0	8.1	7.4	6.1	5.9	9.0	8.0	7.8
10-14	6.2	5.9	5.5	5.3	6.5	6.7	6.0	6.1	6.6	6.9	6.9	7.3	7.4	8.6	5.9	8.5	5.9	4.9	5.8	4.9	6.4	7.3
15-19	4.4	4.4	4.2	3.9	4.0	4.2	4.1	4.0	4.2	4.1	4.4	4.5	4.9	4.8	3.9	4.4	5.0	5.5	5.0	4.3	4.9	4.7
20-29	2.3	2.2	2.0	1.9	1.9	1.9	1.7	1.8	1.8	1.7	1.6	1.6	1.7	1.7	1.7	1.6	1.7	1.7	1.8	1.9	1.9	1.8
30-39	2.1	1.9	1.8	1.6	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.1	1.2	1.2	1.2
40-49	2.3	2.2	2.0	1.9	1.8	1.7	1.6	1.5	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.0
50-59	2.9	2.8	2.6	2.3	2.1	2.1	1.8	1.7	1.5	1.5	1.4	1.4	1.4	1.3	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1
60-64	9.6	7.4	6.7	6.1	4.7	4.5	3.7	3.3	2.6	2.8	2.5	2.2	2.3	2.2	2.2	2.1	1.9	1.9	2.0	1.9	1.9	1.8
65-69	16.1	13.2	.	11.2	10.8	9.1	6.9	5.0	4.0	4.0	3.7	3.1	2.9	2.9	2.8	2.6	2.4	2.5	2.2	2.4	2.2	2.1
70-79	.	.	.	25.0	.	18.5	13.5	10.7	8.2	8.5	6.6	6.2	5.1	5.1	4.5	4.4	4.1	4.0	3.6	3.6	3.1	3.0
80+	.	.	.	.	.	.	.	.	.	.	.	.	22.2	.	25.0	.	22.2	.	19.2	20.8	17.4	18.8
Male	1.4	1.3	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Female	1.8	1.7	1.6	1.5	1.4	1.4	1.2	1.2	1.0	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8
White	1.3	1.2	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7
Black	2.4	2.2	2.0	1.8	1.8	1.7	1.5	1.5	1.4	1.4	1.3	1.3	1.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
Other race	6.4	6.0	5.9	5.4	5.2	5.1	4.5	3.9	3.2	3.1	3.0	2.7	2.6	2.6	2.4	2.3	2.3	2.2	2.2	2.1	2.2	2.1
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.7	1.6	1.4	1.5	1.4	1.4
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.6	0.6	0.6	0.6	0.6	0.6
Diabetes	3.1	2.7	2.4	2.2	2.0	1.8	1.6	1.6	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1	1.0
Hypertension	3.2	2.9	2.4	2.2	2.2	2.1	1.8	1.7	1.5	1.6	1.4	1.4	1.4	1.3	1.2	1.3	1.2	1.2	1.3	1.3	1.3	1.2
Glomerulonephritis	2.0	1.9	1.7	1.6	1.5	1.5	1.4	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Other cause	1.6	1.6	1.6	1.5	1.5	1.5	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1
First transplant	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Subsequent transplants	3.2	2.9	2.8	2.3	2.1	2.0	1.9	1.9	1.7	1.8	1.6	1.6	1.6	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.6	1.5
All	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5

ADJUSTED

0-19
20-44
45-64
65-74
75+

Male
Female

White
Black
Other race

Diabetes
Hypertension
Glomerulonephritis
Other cause

First transplant
Subsequent transplants

All

Table F.5

Five-year graft survival probabilities: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<1	16.7	80.0	100.0	63.6	50.0	54.6	37.5	57.1	33.3	60.0	0.0	50.0	50.0	50.0	80.0	.	66.7	33.3	100.0	50.0
1-4	50.0	44.4	43.8	47.8	43.8	41.2	50.0	60.0	66.7	70.0	66.7	54.6	77.8	100.0	66.7	75.0	68.8	81.3	90.9	76.5
5-9	46.2	36.1	38.9	54.8	54.2	56.7	39.1	50.0	61.3	67.9	54.2	50.0	68.8	70.0	74.2	58.6	75.9	84.6	71.0	76.2
10-14	38.1	41.4	35.8	41.4	42.1	43.4	36.8	51.6	43.6	46.0	43.1	72.7	54.1	43.3	68.6	48.5	59.6	63.8	66.7	76.1
15-19	50.8	50.0	45.3	50.9	48.3	37.9	41.7	41.8	42.1	46.5	44.4	51.8	48.0	49.5	47.3	48.0	50.5	45.3	48.9	52.1
20-29	46.4	43.7	49.2	49.8	47.4	46.1	46.2	48.7	49.9	55.6	58.2	60.8	58.2	59.6	58.0	61.8	62.3	65.5	64.1	64.5
30-39	36.9	42.5	42.3	41.1	43.8	45.9	48.6	46.4	52.5	55.1	58.6	62.1	63.5	61.4	64.4	66.6	66.7	67.1	69.0	68.9
40-49	34.6	39.3	40.6	37.6	43.2	43.5	41.4	42.9	52.2	58.1	57.2	58.9	59.4	62.9	63.2	64.5	65.2	67.4	69.0	70.0
50-59	32.4	31.0	32.7	35.1	44.3	44.8	41.2	48.6	54.7	54.5	57.8	58.0	57.9	58.9	61.2	63.5	62.6	64.8	63.5	65.7
60-64	20.0	28.2	34.6	34.4	29.1	38.5	43.1	42.1	55.1	53.8	57.6	55.9	61.3	56.4	56.4	55.7	61.9	60.2	57.5	59.2
65-69	50.0	0.0	33.3	27.8	40.0	34.5	40.0	33.0	47.0	52.4	53.0	54.6	53.9	48.9	50.2	55.4	57.0	51.9	60.1	54.3
70-79	0.0	0.0	.	0.0	0.0	40.0	33.3	64.7	47.2	46.9	47.2	44.8	52.5	39.8	49.1	40.2	51.2	51.4	51.2	50.0
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	66.7	.	50.0	100.0	66.7	100.0	60.0	50.0
Male	38.8	40.4	40.6	40.6	43.0	44.9	43.6	44.5	51.2	54.6	56.7	58.1	58.6	59.4	60.5	62.4	63.7	64.0	64.4	65.6
Female	38.5	40.6	44.3	43.7	46.0	43.8	45.7	48.2	53.5	56.7	58.1	60.9	61.0	59.9	61.6	62.6	63.0	65.0	65.6	64.8
White	42.5	44.5	45.6	45.3	47.4	48.6	49.1	49.5	55.7	59.2	60.2	62.7	62.6	62.4	64.0	65.2	66.5	67.3	68.1	68.6
Black	25.8	25.8	29.9	29.5	32.5	32.3	29.9	33.9	40.0	41.7	47.2	47.6	49.0	50.0	52.5	53.8	54.5	56.3	56.3	56.2
Other race	29.8	37.9	42.0	46.4	52.3	46.7	53.8	53.0	60.8	67.2	64.6	66.0	69.6	69.4	64.8	72.3	70.1	73.2	70.6	73.2
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	71.1	69.3	74.2	70.0
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	62.6	63.9	63.6	64.6
Diabetes	38.1	44.3	39.8	38.7	43.0	44.0	44.2	42.7	51.0	55.6	55.3	58.0	55.8	58.6	60.2	63.2	62.1	61.4	61.9	63.2
Hypertension	34.0	37.8	35.8	35.7	38.6	40.2	38.0	39.3	47.6	47.1	53.0	53.3	55.1	54.5	57.9	56.4	58.8	61.8	60.4	60.2
Glomerulonephritis	44.9	42.1	43.6	45.8	48.7	48.7	47.4	48.7	53.8	58.1	58.6	60.7	61.8	61.7	60.3	62.7	64.7	66.3	67.1	65.5
Other cause	36.0	38.9	44.0	42.2	42.9	43.2	45.1	49.5	54.2	57.7	60.3	62.9	64.2	62.7	64.9	66.4	67.3	67.8	69.2	71.2
First transplant	40.2	41.5	43.0	43.9	46.2	47.2	45.7	46.6	53.6	56.6	58.3	60.2	59.6	60.2	61.3	63.1	63.9	64.6	65.4	65.5
Subsequent transplants	27.4	32.6	34.3	28.1	33.7	32.2	37.4	42.0	44.0	48.7	51.6	53.5	59.3	55.8	58.7	58.4	60.0	63.1	61.6	63.8
All	38.7	40.5	42.0	41.7	44.1	44.5	44.4	45.9	52.1	55.4	57.2	59.2	59.6	59.6	60.9	62.5	63.4	64.4	64.8	65.3
ADJUSTED																				
0-19	50.9	51.3	52.3	52.9	52.6	51.2	51.5	53.5	52.7	58.7	55.3	66.3	64.6	64.2	69.4	60.4	68.2	73.6	70.9	71.8
20-44	47.8	49.3	50.3	49.8	54.2	58.2	57.1	57.4	61.6	65.3	68.0	72.2	71.9	71.1	74.5	76.3	77.0	78.2	79.9	78.5
45-64	39.2	40.8	44.2	43.9	53.2	55.5	54.4	57.1	63.0	65.1	67.8	69.7	70.1	70.9	72.3	74.5	75.5	76.0	75.9	77.0
65-74	38.3	20.1	100.0	39.3	38.5	46.8	55.7	50.5	54.8	58.7	62.7	65.1	68.2	62.8	65.8	65.4	69.8	65.2	68.9	65.8
75+	.	.	.	100.0	0.0	100.0	.	100.0	53.1	64.8	61.4	78.9	75.5	42.3	56.9	55.0	61.6	64.0	67.7	72.0
Male	44.2	45.0	45.2	45.5	50.7	55.1	53.3	54.6	59.6	63.6	66.7	69.5	69.5	70.2	72.7	73.5	76.1	76.3	76.9	78.0
Female	42.8	44.6	48.9	47.7	53.3	54.5	55.8	56.9	61.9	63.9	65.9	70.7	71.4	69.3	72.0	74.9	74.4	75.7	76.8	74.4
White	46.5	48.4	49.5	48.9	53.7	58.0	57.6	57.5	63.5	66.8	68.8	72.7	72.8	72.0	75.0	76.0	78.0	77.9	78.8	79.2
Black	36.7	35.3	39.1	38.7	45.8	46.6	43.7	49.7	51.4	54.1	60.2	62.4	63.0	63.3	66.0	68.1	69.1	70.4	71.7	69.6
Other race	33.4	38.6	39.7	45.8	57.9	53.3	62.3	57.0	66.7	74.7	67.5	75.9	75.3	76.7	73.9	80.2	76.9	81.0	79.4	80.7
Diabetes	41.2	48.7	42.1	42.1	47.5	55.2	51.9	52.1	59.9	64.7	64.3	69.2	66.0	68.9	72.7	74.5	74.6	74.1	75.2	75.8
Hypertension	49.1	51.2	50.8	48.9	55.8	55.6	55.0	56.1	62.0	62.4	66.9	69.9	71.2	70.6	73.4	72.4	76.4	76.2	77.1	75.6
Glomerulonephritis	50.8	47.5	48.8	49.1	55.9	57.0	56.2	58.0	61.8	64.6	67.6	71.4	71.9	70.9	71.5	74.0	75.3	77.0	76.9	76.6
Other cause	41.7	43.1	48.1	47.5	50.6	54.3	54.9	56.8	59.9	63.8	67.5	69.8	72.1	68.8	72.2	74.9	75.6	77.2	78.8	78.4
First transplant	35.8	37.2	42.2	41.7	44.8	48.7	49.3	51.3	54.6	58.7	62.7	65.4	67.8	64.2	67.9	71.0	71.7	73.5	75.3	74.9
Subsequent transplants	35.1	39.0	39.3	33.5	41.2	42.5	46.1	52.3	49.9	56.9	59.0	61.6	66.7	63.7	67.8	66.1	71.4	71.1	71.0	71.9
All	33.2	37.1	37.4	31.7	39.3	40.6	44.2	50.5	48.1	55.2	57.3	60.0	65.2	62.2	66.4	64.6	70.1	69.8	69.7	70.6

Table F.6

Ten-year graft survival probabilities: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<1	0.0	80.0	100.0	63.6	50.0	54.6	37.5	42.9	0.0	60.0	0.0	50.0	50.0	50.0	80.0
1-4	50.0	44.4	43.8	47.8	25.0	29.4	43.8	45.0	41.7	50.0	60.0	45.5	66.7	77.8	33.3
5-9	38.5	30.6	38.9	38.7	45.8	30.0	21.7	34.4	48.4	35.7	29.2	40.9	25.0	55.0	64.5
10-14	25.4	25.7	23.5	29.9	24.6	32.1	27.9	26.6	23.6	22.0	21.6	36.4	29.7	26.7	41.2
15-19	37.1	41.3	32.1	38.4	34.4	23.6	29.9	33.3	27.9	29.6	29.0	30.7	29.6	35.4	27.7
20-29	32.0	33.1	36.8	34.6	30.4	32.6	29.9	33.4	33.2	37.3	39.0	39.9	34.6	39.0	39.2
30-39	23.5	26.8	29.7	27.5	25.8	27.8	29.5	29.0	33.0	35.5	38.1	38.2	39.8	39.3	42.5
40-49	20.7	23.0	24.1	21.9	24.3	24.5	24.3	27.7	31.6	36.0	34.7	37.1	35.8	40.3	40.8
50-59	18.7	18.4	17.8	18.7	22.3	17.5	21.7	27.4	31.7	30.9	32.2	31.3	30.0	33.9	33.8
60-64	12.0	7.7	19.2	12.5	7.3	15.6	19.5	20.4	26.0	24.3	27.0	28.6	25.5	31.9	27.9
65-69	12.5	0.0	33.3	11.1	10.0	6.9	18.0	14.4	16.8	23.1	20.8	23.8	21.6	20.7	22.3
70-79	0.0	0.0	.	0.0	0.0	20.0	0.0	35.3	25.0	15.6	22.6	8.6	18.8	9.7	16.4
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	33.3	.	0.0
Male	24.2	26.3	26.5	25.8	24.7	25.5	26.1	27.4	30.4	32.4	33.6	34.0	32.6	36.1	36.3
Female	26.4	27.8	31.6	29.3	27.2	25.9	26.9	30.8	32.6	35.6	35.8	37.0	35.6	37.2	38.6
White	28.8	30.8	32.2	30.8	29.0	29.6	30.7	32.3	34.5	37.4	37.7	37.8	36.9	39.4	40.9
Black	12.0	12.1	15.4	14.2	13.8	13.4	13.4	15.9	20.3	20.1	23.9	25.1	22.9	26.4	26.3
Other race	17.5	25.8	30.4	31.0	36.1	31.5	32.1	39.1	41.2	44.4	40.1	49.6	45.6	48.1	45.6
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	20.6	24.8	25.4	21.3	20.5	22.5	20.3	22.9	25.1	28.3	30.2	28.9	25.9	31.1	30.1
Hypertension	19.7	20.9	20.8	19.9	18.6	17.5	18.6	20.7	24.9	24.7	29.4	28.7	26.6	31.9	31.6
Glomerulonephritis	30.4	29.0	30.7	32.1	30.8	31.6	31.5	32.3	35.2	38.1	37.6	39.4	38.2	38.8	40.8
Other cause	24.1	27.7	30.8	28.3	26.8	26.3	30.0	34.0	35.9	39.3	38.4	41.1	42.2	43.8	45.9
First transplant	26.5	27.8	29.0	28.8	27.3	27.7	27.4	29.4	32.2	34.5	34.8	35.8	33.9	37.1	37.2
Subsequent transplants	13.3	19.9	24.0	16.1	16.9	16.1	21.1	24.3	26.3	28.5	33.0	31.4	33.1	32.9	37.4
All	25.0	26.8	28.4	27.0	25.7	25.7	26.4	28.7	31.3	33.7	34.5	35.1	33.8	36.5	37.2
ADJUSTED															
0-19	50.9	51.3	52.3	52.9	52.6	51.2	51.5	53.5	52.7	58.7	55.3	66.3	64.6	64.2	69.4
20-44	47.8	49.3	50.3	49.8	54.2	58.2	57.1	57.4	61.6	65.3	68.0	72.2	71.9	71.1	74.5
45-64	39.2	40.8	44.2	43.9	53.2	55.5	54.4	57.1	63.0	65.1	67.8	69.7	70.1	70.9	72.3
65-74	38.3	20.1	100.0	39.3	38.5	46.8	55.7	50.5	54.8	58.7	62.7	65.1	68.2	62.8	65.8
75+	.	.	.	100.0	0.0	100.0	.	100.0	53.1	64.8	61.4	78.9	75.5	42.3	56.9
Male	44.2	45.0	45.2	45.5	50.7	55.1	53.3	54.6	59.6	63.6	66.7	69.5	69.5	70.2	72.7
Female	42.8	44.6	48.9	47.7	53.3	54.5	55.8	56.9	61.9	63.9	65.9	70.7	71.4	69.3	72.0
White	46.5	48.4	49.5	48.9	53.7	58.0	57.6	57.5	63.5	66.8	68.8	72.7	72.8	72.0	75.0
Black	36.7	35.3	39.1	38.7	45.8	46.6	43.7	49.7	51.4	54.1	60.2	62.4	63.0	63.3	66.0
Other race	33.4	38.6	39.7	45.8	57.9	53.3	62.3	57.0	66.7	74.7	67.5	75.9	75.3	76.7	73.9
Diabetes	41.2	48.7	42.1	42.1	47.5	55.2	51.9	52.1	59.9	64.7	64.3	69.2	66.0	68.9	72.7
Hypertension	49.1	51.2	50.8	48.9	55.8	55.6	55.0	56.1	62.0	62.4	66.9	69.9	71.2	70.6	73.4
Glomerulonephritis	50.8	47.5	48.8	49.1	55.9	57.0	56.2	58.0	61.8	64.6	67.6	71.4	71.9	70.9	71.5
Other cause	41.7	43.1	48.1	47.5	50.6	54.3	54.9	56.8	59.9	63.8	67.5	69.8	72.1	68.8	72.2
First transplant	35.8	37.2	42.2	41.7	44.8	48.7	49.3	51.3	54.6	58.7	62.7	65.4	67.8	64.2	67.9
Subsequent transplants	35.1	39.0	39.3	33.5	41.2	42.5	46.1	52.3	49.9	56.9	59.0	61.6	66.7	63.7	67.8
All	33.2	37.1	37.4	31.7	39.3	40.6	44.2	50.5	48.1	55.2	57.3	60.0	65.2	62.2	66.4

Table F.7

90-day graft survival probabilities: all living donor transplants

by age, gender, race/ethnicity, primary diagnosis, & transplant number

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	100.0	100.0	66.7	100.0	85.7	100.0	100.0	62.5	62.5	91.7	80.0	100.0	50.0	92.9	100.0	81.8	100.0	100.0	90.0	100.0	75.0	92.3	100	91.7
1-4	100.0	100.0	76.9	93.8	84.6	100.0	100.0	89.5	70.0	100.0	92.3	88.9	84.6	78.6	87.5	93.3	86.4	100.0	86.7	92.3	87.5	100.0	100	91.7
5-9	94.4	94.1	82.1	85.0	100.0	85.7	73.9	85.2	94.1	81.8	90.5	92.9	96.3	90.9	93.8	91.7	88.9	100.0	96.2	100.0	92.9	88.9	96.3	96.6
10-14	93.3	97.5	86.7	94.6	96.7	95.9	94.7	89.5	90.2	100.0	79.3	97.8	97.7	97.4	95.1	100.0	97.7	96.9	95.0	94.7	92.9	97.4	100	100.0
15-19	95.2	95.2	95.3	94.2	94.3	90.9	95.8	95.8	95.0	98.6	89.7	93.6	92.0	97.4	95.0	89.2	96.2	97.8	93.8	100.0	98.4	92.2	97.8	100.0
20-29	97.1	96.5	94.6	93.7	92.0	95.1	95.7	94.9	93.2	92.2	93.9	95.5	93.5	95.0	95.5	95.6	96.2	96.5	95.6	97.3	97.6	96.6	97.25	97.5
30-39	94.4	94.0	92.2	93.4	94.1	94.9	96.6	95.7	91.7	93.4	93.2	95.4	93.0	93.9	93.2	96.2	95.7	96.9	97.6	96.0	97.0	97.0	97.01	96.8
40-49	95.4	92.7	91.5	94.4	95.4	95.0	95.9	94.2	95.4	92.8	90.7	94.8	93.9	96.6	94.7	94.8	95.0	94.3	97.0	96.3	95.1	95.7	96.55	96.8
50-59	94.6	91.8	96.9	93.4	94.2	93.1	95.7	94.2	92.7	93.6	92.3	94.4	95.0	90.3	95.9	93.8	94.7	94.9	96.3	95.1	96.4	96.8	96.01	97.7
60-64	.	100.0	92.3	90.9	93.8	95.2	93.4	94.2	83.3	90.9	92.9	93.3	93.9	96.9	92.1	89.8	98.3	94.7	94.0	96.7	96.0	95.3	96.9	95.3
65-69	100.0	100.0	0.0	80.0	100.0	100.0	93.6	93.1	100.0	83.3	88.9	82.4	93.0	97.1	97.4	87.7	93.0	95.6	97.3	96.5	94.8	96.0	96.76	94.5
70-79	.	.	.	100.0	100.0	100.0	71.4	100.0	.	.	100.0	100.0	100.0	85.7	100.0	90.5	95.5	93.3	90.2	95.7	95.4	95.7	95.33	95.4
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	100.0	.	100.0	100	100.0
Male	94.5	94.3	92.8	93.3	93.9	95.1	95.3	94.6	90.7	93.5	92.2	95.2	94.0	95.0	94.9	94.4	95.9	96.2	96.4	97.2	96.2	96.2	96.82	97.1
Female	97.2	95.2	92.8	94.1	93.9	93.7	96.0	94.2	95.4	92.9	92.1	94.4	92.8	93.6	94.4	94.4	94.7	95.2	95.8	95.0	96.0	96.1	96.54	96.4
White	95.6	95.3	93.0	93.2	94.4	94.8	95.5	94.4	92.0	93.5	92.1	95.0	93.7	94.7	94.6	94.6	95.4	95.6	96.1	95.9	96.5	96.2	96.65	96.6
Black	95.1	91.1	90.5	94.9	89.6	93.8	95.5	93.7	94.9	90.2	92.0	92.8	91.6	93.4	93.4	93.1	95.1	96.6	96.3	97.0	94.6	95.3	97.01	96.6
Other race	100.0	89.7	97.3	97.6	98.0	91.5	96.3	96.3	97.4	98.0	93.0	100.0	96.2	93.2	98.9	95.7	97.2	95.7	97.6	99.1	95.3	98.2	96.51	99.5
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	96.1	96.2	95.7	96.5	97.0	96.6	98.21	97.1
‡Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	95.3	95.7	96.3	96.2	95.9	96.1	96.47	96.7
Diabetes	96.2	92.0	89.9	90.5	93.2	92.2	95.8	92.6	91.6	95.1	90.5	94.1	90.7	93.4	94.0	93.6	94.6	95.1	95.4	96.0	95.6	96.4	96.47	96.2
Hypertension	97.0	96.1	93.4	95.2	94.9	96.7	95.3	97.2	90.8	91.2	88.9	94.8	94.4	95.1	93.9	94.8	96.6	96.7	97.1	95.6	97.6	96.1	97.97	97.1
Glomerulonephritis	95.9	96.7	93.2	95.0	93.4	95.6	95.7	93.6	92.1	93.7	95.4	96.6	94.0	95.4	95.3	94.6	96.4	95.3	96.6	96.5	94.8	95.7	96.97	97.2
Other cause	95.0	93.4	93.6	93.3	94.5	94.2	95.5	95.1	94.3	92.1	90.9	93.7	94.5	93.7	94.9	94.6	94.2	96.3	96.0	96.7	96.8	96.4	95.99	96.7
First transplant	95.5	94.7	93.0	93.8	94.1	94.8	95.4	94.9	92.7	93.5	92.7	95.3	93.6	94.6	95.1	94.4	95.6	95.9	96.5	96.6	96.2	96.3	97.07	96.7
Subsequent transplants	97.8	92.5	90.1	90.2	91.7	92.4	96.6	90.3	91.3	90.3	86.2	90.4	92.4	91.7	90.3	94.7	93.8	94.1	93.9	93.6	95.2	94.9	94.06	97.6
All	95.6	94.6	92.8	93.6	93.9	94.5	95.6	94.4	92.6	93.2	92.1	94.9	93.5	94.4	94.7	94.4	95.4	95.8	96.2	96.3	96.1	96.2	96.7	96.8
ADJUSTED																								
0-19	87.4	85.7	81.3	82.7	83.7	80.1	84.7	81.1	76.8	81.8	80.1	86.3	85.0	85.8	87.9	86.3	91.9	93.2	91.7	89.5	90.4	94.9	93.65	96.64
20-44	83.2	84.4	81.8	82.1	84.1	85.4	84.7	83.7	82.4	85.2	85.7	88.8	88.7	88.1	90.4	91.7	92.3	93.4	94.4	93.8	93.9	94.7	94.65	94.96
45-64	78.1	81.3	79.2	80.7	82.7	82.7	82.4	84.0	83.0	84.9	86.8	86.8	88.0	88.3	89.5	90.7	91.3	92.4	92.3	92.2	92.7	93.5	92.78	93.65
65-74	100.0	88.0	100.0	77.0	90.9	100.0	86.1	76.4	80.0	84.0	85.6	87.3	86.0	88.7	89.2	86.6	88.6	89.6	91.6	90.0	90.0	89.0	91.97	92.67
75+	.	.	.	100.0	100.0	100.0	.	100.0	68.0	83.2	86.5	100.0	93.7	69.8	87.5	94.2	93.4	86.0	86.3	88.3	94.5	86.6	91.25	94.2
Male	80.9	82.5	78.8	80.5	82.3	84.7	83.3	83.0	81.7	84.3	85.9	87.8	87.9	88.4	90.3	90.7	91.7	93.5	93.3	93.5	93.6	93.3	93.61	94.33
Female	82.2	83.2	81.7	80.9	83.4	81.3	82.9	82.4	81.8	84.6	84.6	87.3	88.0	87.1	88.7	90.6	91.4	91.2	92.8	91.3	92.0	94.3	93.49	94.26
White	82.7	84.0	80.9	81.6	82.7	83.9	83.2	82.1	81.9	84.7	85.5	87.9	88.3	87.9	89.7	90.4	91.8	92.5	93.0	92.7	93.4	93.6	94.2	94.98
Black	77.5	81.0	77.8	79.4	82.7	82.5	82.7	84.7	80.9	83.2	85.8	86.9	87.0	87.6	90.1	91.1	90.4	92.3	92.7	92.0	91.4	93.3	92.1	92.53
Other race	83.7	72.3	77.6	70.5	90.8	84.2	87.8	84.7	86.3	90.9	85.2	89.3	89.9	91.5	88.5	93.0	95.1	94.9	96.5	94.7	95.1	95.3	93.14	95.15
Diabetes	79.7	83.9	83.2	81.5	85.0	85.5	81.7	82.6	80.1	85.4	84.6	87.3	86.5	89.0	90.6	90.8	91.9	91.8	93.2	92.2	93.3	93.7	93.35	94.02
Hypertension	86.0	85.1	80.4	84.3	85.9	85.8	85.8	86.6	86.0	85.7	88.6	89.7	89.6	89.3	91.3	91.3	93.3	93.5	94.6	93.7	92.7	93.6	93.53	94.85
Glomerulonephritis	85.9	84.8	79.9	79.2	82.1	83.0	83.8	82.4	81.3	83.9	85.1	88.3	89.0	87.1	89.3	90.5	91.5	93.3	92.8	93.1	93.2	93.9	93.66	93.96
Other cause	79.3	81.8	80.2	81.4	82.0	82.4	82.8	81.5	80.9	83.8	84.5	85.6	86.9	86.1	87.9	90.0	89.7	92.0	92.1	91.7	92.8	93.3	93.68	94.39
First transplant	82.2	83.7	80.5	82.2	84.7	84.9	84.4	84.0	83.4	85.6	86.3	88.4	88.7	88.9	90.5	91.4	92.1	93.1	93.7	93.1	93.5	94.0	93.89	94.68
Subsequent transplants	75.5	76.3	75.5	71.5	72.1	76.2	76.0	75.3	72.0	77.4	80.5	82.3	83.1	81.1	84.4	85.7	88.1	89.2	89.6	89.6	89.6	91.5	91.51	91.69
All	81.4	82.7	79.9	80.6	82.7	83.5	83.1	82.7	81.7	84.4	85.4	87.5	87.9	87.9	89.7	90.6	91.5	92.6	93.1	92.6	93.0	93.7	93.56	94.3

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	.	.	22.2	.	12.2	.	.	15.8	15.8	7.6	16.0	.	18.1	6.6	.	11.1	.	9.0	.	18.8	7.1	.	7.64	
1-4	.	.	11.2	5.9	9.6	.	.	6.9	13.6	.	7.1	7.2	9.6	10.5	10.9	6.2	7.1	.	8.5	7.1	8.0	.	.	5.52
5-9	5.3	5.5	7.1	7.8	.	7.4	8.8	6.7	5.5	8.0	6.3	4.8	3.6	5.8	5.9	5.5	5.9	.	3.7	.	6.6	5.9	3.6	3.33
10-14	3.7	2.4	5.0	3.0	2.3	2.8	3.5	4.9	4.6	.	7.3	2.1	2.3	2.5	3.3	.	2.3	3.0	3.4	3.6	4.8	2.6	.	.
15-19	2.7	2.1	2.1	2.1	2.5	3.3	2.1	2.1	2.4	1.4	3.4	2.8	3.1	1.8	2.4	3.6	2.2	1.6	3.0	.	1.6	3.0	1.5	.
20-29	1.0	1.1	1.2	1.2	1.5	1.1	1.0	1.1	1.4	1.5	1.3	1.1	1.3	1.1	1.0	1.1	1.0	1.0	1.1	0.9	0.8	0.9	0.9	0.73
30-39	1.6	1.3	1.4	1.3	1.2	1.0	0.8	0.9	1.5	1.4	1.3	1.1	1.3	1.2	1.2	0.9	0.9	0.7	1.0	0.8	0.7	0.7	0.7	0.71
40-49	1.8	2.1	1.9	1.5	1.4	1.2	1.0	1.2	1.6	1.8	1.8	1.3	1.4	1.0	1.1	1.1	1.0	1.1	0.9	0.9	0.9	0.8	0.7	0.65
50-59	3.7	3.0	1.5	2.1	1.8	1.7	1.2	1.4	2.5	2.1	2.2	1.7	1.6	1.8	1.2	1.3	1.2	1.2	1.0	1.1	0.9	0.7	0.7	0.54
60-64	.	.	7.1	8.3	4.2	3.3	3.1	2.8	8.5	4.9	4.8	3.7	3.4	2.2	3.4	3.0	1.2	1.9	2.2	1.5	1.5	1.3	1.0	1.18
65-69	.	.	.	16.0	.	.	.	4.3	4.6	.	13.9	7.2	9.0	3.8	2.9	4.0	2.7	2.1	1.5	1.7	1.7	1.4	1.1	1.34
70-79	.	.	.	.	.	.	15.7	.	.	.	.	.	.	12.2	.	6.3	4.3	4.5	4.6	3.0	2.2	2.1	1.7	1.83
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	1.1	0.9	0.9	0.9	0.8	0.7	0.6	0.7	1.1	0.9	1.0	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.37
Female	0.9	1.1	1.2	1.0	1.0	1.0	0.7	0.9	1.0	1.2	1.1	0.9	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.49
White	0.8	0.7	0.8	0.8	0.7	0.6	0.5	0.6	0.9	0.8	0.8	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.34
Black	2.4	2.7	2.2	1.6	2.2	1.6	1.3	1.4	1.9	2.4	2.2	1.8	1.9	1.5	1.4	1.4	1.2	1.0	1.0	0.9	1.1	1.0	0.7	0.74
Other race	.	4.8	2.6	2.3	2.0	3.6	2.1	2.1	2.5	2.0	3.8	.	2.6	3.2	1.1	2.1	2.0	2.1	1.7	0.9	2.1	1.1	1.4	0.53
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.2	1.1	1.2	1.0	0.9	0.9	0.6	0.76
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.32
Diabetes	1.9	2.3	2.0	1.9	1.6	1.4	1.0	1.3	1.8	1.3	1.7	1.2	1.6	1.3	1.2	1.2	1.1	1.0	1.0	0.9	0.9	0.7	0.6	0.66
Hypertension	2.1	1.9	2.0	1.7	1.6	1.2	1.3	1.0	2.6	2.3	2.6	1.6	1.5	1.3	1.3	1.2	1.0	1.0	1.0	1.1	0.7	0.9	0.6	0.75
Glomerulonephritis	1.2	0.9	1.2	1.0	1.1	0.9	0.8	1.0	1.4	1.2	1.0	0.9	1.1	1.0	0.9	0.9	0.7	0.8	0.8	0.8	0.9	0.7	0.6	0.53
Other cause	1.2	1.2	1.2	1.2	1.1	1.0	0.8	0.9	1.2	1.4	1.4	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.52
First transplant	0.8	0.7	0.7	0.7	0.7	0.6	0.5	0.5	0.8	0.8	0.8	0.6	0.7	0.6	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.33
Subsequent transplants	2.2	4.1	3.5	3.1	2.4	2.2	1.3	2.2	2.8	3.0	3.3	2.5	2.3	2.3	2.2	1.6	1.7	1.7	1.6	1.7	1.3	1.2	1.2	0.71
All	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.5	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3

ADJUSTED

0-19
20-44
45-64
65-74
75+

Male
Female

White
Black
Other race

Diabetes
Hypertension
Glomerulonephritis
Other cause

First transplant
Subsequent transplants

All

Table F.8

One-year graft survival probabilities: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	100.0	100.0	66.7	75.0	85.7	80.0	100.0	62.5	62.5	91.7	80.0	100.0	50.0	92.9	100.0	81.8	80.0	100.0	90.0	100.0	75.0	92.3	100	75.0
1-4	75.0	100.0	61.5	68.8	76.9	75.0	80.0	89.5	70.0	100.0	84.6	88.9	84.6	78.6	87.5	93.3	81.8	90.9	86.7	92.3	87.5	100.0	91.3	91.7
5-9	88.9	88.2	71.4	75.0	92.0	85.7	69.6	74.1	82.4	81.8	90.5	92.9	92.6	77.3	87.5	91.7	85.2	100.0	96.2	100.0	92.9	88.9	96.3	89.7
10-14	88.9	92.5	80.0	87.5	88.3	85.7	94.7	84.2	85.4	100.0	69.0	93.5	90.7	92.3	95.1	97.3	95.4	90.6	92.5	92.1	85.7	97.4	97.96	100.0
15-19	88.9	87.4	89.6	82.5	85.2	85.7	90.5	90.5	90.0	95.8	85.9	91.0	85.3	93.5	90.0	87.8	96.2	92.1	90.6	96.7	95.2	90.9	95.6	94.7
20-29	89.3	89.7	88.3	88.5	87.4	89.4	90.1	88.5	88.7	88.7	92.2	93.2	91.2	91.6	92.6	93.4	93.0	94.9	91.7	94.2	93.3	93.5	94.78	94.8
30-39	90.6	83.2	84.9	87.8	89.2	87.3	92.5	89.9	87.4	90.6	90.7	93.4	90.1	90.8	91.0	93.7	92.9	94.9	94.4	93.2	94.7	94.6	95.02	94.7
40-49	80.2	80.7	85.4	85.3	89.9	91.7	92.8	89.3	90.3	90.9	86.9	91.0	92.7	93.7	90.3	93.0	92.9	91.4	94.8	95.1	92.2	93.2	93.81	95.3
50-59	81.1	78.8	86.6	87.5	87.1	91.7	93.0	91.9	87.2	87.9	87.4	90.4	90.6	85.6	90.3	89.1	91.7	92.3	94.4	91.7	92.0	93.7	92.85	95.6
60-64	.	100.0	76.9	90.9	93.8	92.9	93.4	87.0	77.8	87.9	85.7	84.4	91.8	90.6	82.5	85.7	93.2	88.6	87.9	92.7	93.7	90.3	93.45	93.8
65-69	100.0	100.0	0.0	80.0	100.0	90.0	83.9	89.7	71.4	83.3	83.3	82.4	81.4	88.2	97.4	81.5	88.4	91.2	92.0	95.7	92.5	91.9	94.24	92.8
70-79	.	.	.	100.0	100.0	100.0	71.4	100.0	.	.	100.0	100.0	100.0	85.7	100.0	85.7	95.5	93.3	78.1	91.3	88.5	93.5	92.67	91.5
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	100.0	.	100.0	100	100.0
Male	86.6	84.3	85.7	85.5	89.2	90.0	91.5	88.9	85.2	90.2	88.9	92.2	91.3	90.7	90.7	91.4	93.6	93.6	94.0	94.5	92.6	93.5	94.42	95.0
Female	89.3	87.2	85.7	88.3	87.0	88.1	91.6	89.9	91.4	90.4	89.0	91.7	89.0	90.4	91.4	91.9	91.2	92.1	91.7	92.6	93.0	93.0	93.45	94.1
White	88.0	86.6	86.4	87.3	89.2	90.1	91.3	89.2	87.1	90.9	88.9	92.3	90.9	91.1	91.8	92.0	93.1	92.9	93.0	93.5	93.4	93.6	94.11	94.4
Black	84.2	76.8	82.1	83.0	81.9	84.5	92.2	88.4	89.1	84.3	87.9	88.0	86.9	89.2	86.5	89.3	89.0	92.6	92.0	93.0	90.4	91.5	93.1	94.8
Other race	93.3	84.6	81.1	85.7	94.0	89.8	93.9	95.1	94.9	96.0	93.0	100.0	92.3	86.4	94.6	93.5	95.8	93.6	96.4	99.1	90.6	94.5	95.35	96.8
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	93.4	95.2	93.7	94.0	92.7	94.6	95.53	95.5
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	92.4	92.5	92.8	93.7	92.8	93.0	93.77	94.5
Diabetes	84.8	79.6	80.7	80.2	85.5	83.8	87.8	87.1	85.2	92.1	86.6	90.9	87.7	89.2	90.8	91.0	92.0	91.6	92.2	93.0	92.3	93.0	92.48	94.2
Hypertension	89.4	87.3	86.1	89.1	88.8	91.9	93.8	92.1	86.7	88.5	87.5	89.6	90.0	91.7	89.0	91.7	93.2	94.7	93.8	92.4	93.1	93.7	95.21	95.5
Glomerulonephritis	89.9	87.5	87.5	88.9	88.5	91.2	93.2	89.6	86.3	89.6	91.0	93.9	92.0	90.7	91.2	91.7	93.5	92.4	93.5	93.9	91.7	92.9	95.28	95.2
Other cause	86.6	85.1	86.0	86.7	89.6	89.9	91.4	89.2	91.1	90.5	88.9	92.0	90.8	91.0	92.3	91.9	91.5	93.6	92.6	94.8	93.8	93.6	93.54	94.1
First transplant	87.5	85.5	85.5	86.4	88.5	89.7	91.2	89.8	87.6	90.5	89.7	92.5	90.5	90.7	91.9	91.6	92.6	93.1	93.1	94.1	93.2	93.7	94.45	94.6
Subsequent transplants	91.1	82.5	88.7	89.1	87.2	84.8	94.7	84.4	88.4	87.1	80.7	86.7	89.3	89.6	83.0	91.3	91.9	90.9	91.7	89.9	89.6	89.9	90.84	94.6
All	87.7	85.4	85.7	86.6	88.4	89.3	91.5	89.3	87.6	90.3	88.9	92.0	90.4	90.6	91.0	91.6	92.5	92.9	93.0	93.7	92.8	93.3	94.01	94.6
ADJUSTED																								
0-19	70.6	70.4	69.8	66.8	68.2	66.4	71.8	69.8	67.4	71.5	72.4	79.5	80.4	81.1	82.4	77.9	88.2	90.2	85.1	84.0	87.2	91.0	93.08	89.01
20-44	63.6	64.7	67.1	65.1	71.2	75.8	73.0	73.5	74.5	78.6	79.5	83.1	82.9	82.4	84.8	86.9	87.6	89.1	90.4	89.0	90.2	90.9	90.39	90.83
45-64	55.1	58.3	60.5	61.9	68.1	70.0	70.7	72.0	74.5	77.0	78.6	80.7	81.3	82.3	83.3	84.7	85.6	87.1	86.8	86.4	86.5	87.9	87.94	88.54
65-74	78.5	53.2	100.0	54.9	50.9	65.3	72.3	59.6	67.2	73.0	74.3	78.7	82.0	76.3	78.7	79.3	81.3	80.9	82.1	82.4	82.5	81.0	83.55	86.8
75+	.	.	.	100.0	100.0	100.0	.	100.0	68.0	83.2	72.8	100.0	81.0	42.2	68.7	76.8	80.5	75.6	77.2	76.4	86.3	76.6	80.42	84.49
Male	59.8	61.6	62.3	62.4	68.5	72.6	70.7	71.4	72.7	77.1	78.3	81.5	81.7	82.5	83.6	84.6	86.5	88.2	87.7	87.9	88.0	88.0	88.34	89.29
Female	61.4	61.9	66.2	62.8	68.3	70.6	71.2	71.3	74.1	76.4	77.7	81.2	81.8	80.1	83.1	85.7	85.8	86.5	88.2	85.9	87.3	89.4	89.27	89.79
White	62.6	64.5	65.4	64.2	69.5	72.6	71.9	71.2	74.0	77.8	78.8	82.1	82.5	82.0	83.9	85.0	87.0	87.9	88.2	88.0	89.1	89.1	89.87	90.39
Black	55.3	54.9	60.3	58.7	65.6	70.1	67.8	72.1	70.5	73.4	76.9	79.2	79.6	80.6	82.0	84.7	84.7	85.7	86.2	84.1	84.1	86.7	85.86	86.8
Other race	52.9	52.5	58.0	56.0	74.1	74.5	73.8	72.0	79.0	87.0	77.5	86.5	86.0	84.1	84.6	88.3	85.1	92.2	92.6	91.2	89.6	90.4	89.04	91.56
Diabetes	55.5	61.4	63.1	57.4	67.6	73.2	68.4	70.1	71.0	78.4	76.4	80.0	80.1	81.6	83.7	85.4	86.0	86.2	87.3	87.1	87.0	88.6	87.91	88.85
Hypertension	66.3	66.5	66.3	68.4	72.7	75.2	74.6	74.3	77.7	78.7	80.3	83.8	83.9	84.3	84.9	86.3	88.7	87.8	88.0	87.8	87.0	87.7	88.16	89.51
Glomerulonephritis	66.2	63.3	65.0	65.1	70.4	73.2	72.1	72.2	74.1	76.8	79.1	82.2	82.8	81.7	83.3	84.5	85.9	89.0	88.5	86.9	88.9	89.7	89.43	89.26
Other cause	59.3	62.0	64.7	62.4	66.9	69.7	70.3	70.9	71.7	75.0	77.4	80.2	80.7	78.9	81.8	83.8	84.6	87.5	87.9	87.0	88.4	88.2	89.42	90.24
First transplant	61.4	62.8	64.7	64.3	70.4	74.1	72.0	72.5	74.9	78.3	79.2	82.3	82.5	82.4	84.3	86.0	86.8	88.1	88.6	87.8	88.5	89.2	89.16	90.24
Subsequent transplants	53.7	54.2	57.4	52.0	57.7	61.0	64.1	64.9	63.1	67.9	71.8	75.8	77.3	76.3	77.9	78.9	82.7	84.2	83.5	83.0	83.1	84.6	86.07	84.22
All	60.3	61.7	63.7	62.5	68.4	71.9	70.8	71.3	73.1	76.8	78.1	81.4	81.7	81.6	83.4	85.0	86.2	87.5	87.9	87.1	87.8	88.6	88.71	89.47

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	.	.	22.2	18.8	12.2	16.0	.	15.8	15.8	7.6	16.0	.	18.1	6.6	.	11.1	16.0	.	9.0	.	18.8	7.1	.	11.9
1-4	18.8	.	12.8	11.2	11.2	11.9	10.0	6.9	13.6	.	9.6	7.2	9.6	10.5	10.9	6.2	8.0	6.0	8.5	7.1	8.0	.	5.7	5.5
5-9	7.2	7.6	8.4	9.4	5.3	7.4	9.2	8.3	9.0	8.0	6.3	4.8	4.9	8.6	8.0	5.5	6.7	.	3.7	.	6.6	5.9	3.6	5.5
10-14	4.6	4.1	5.9	4.4	4.1	4.9	3.5	5.8	5.5	.	8.3	3.6	4.4	4.2	3.3	2.6	3.2	5.1	4.1	4.3	6.5	2.6	2.0	.
15-19	3.9	3.3	3.0	3.5	3.8	4.0	3.0	3.0	3.3	2.4	3.9	3.2	4.1	2.8	3.3	3.8	2.2	2.8	3.6	2.3	2.7	3.3	2.1	2.3
20-29	1.8	1.8	1.6	1.6	1.8	1.6	1.5	1.6	1.8	1.8	1.4	1.3	1.5	1.4	1.3	1.3	1.3	1.1	1.5	1.2	1.4	1.2	1.2	1.1
30-39	2.0	2.1	1.9	1.7	1.5	1.6	1.1	1.4	1.8	1.6	1.5	1.3	1.5	1.4	1.3	1.1	1.2	1.1	1.1	1.3	1.0	1.0	0.9	0.9
40-49	3.5	3.2	2.4	2.3	2.0	1.5	1.3	1.5	2.2	2.0	2.1	1.7	1.5	1.3	1.5	1.2	1.2	1.3	1.1	1.0	1.2	1.0	0.9	0.8
50-59	6.3	4.4	3.0	2.8	2.6	1.9	1.5	1.6	3.2	2.7	2.8	2.2	2.2	2.2	1.8	1.7	1.5	1.4	1.2	1.4	1.2	1.0	1.0	0.7
60-64	.	.	11.2	8.3	4.2	3.9	3.1	4.0	9.5	5.6	6.5	5.3	3.9	3.6	4.7	3.5	2.3	2.8	3.0	2.1	1.8	1.8	1.5	1.4
65-69	.	.	.	16.0	.	9.0	6.5	5.6	15.7	13.9	8.5	9.0	5.8	5.4	2.5	4.8	3.4	3.0	2.6	1.9	2.0	1.9	1.4	1.5
70-79	.	.	.	.	.	.	15.7	.	.	.	.	.	.	12.2	.	7.4	4.3	4.5	6.4	4.1	3.4	2.6	2.1	2.4
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	1.6	1.5	1.2	1.2	1.1	1.0	0.8	1.0	1.4	1.1	1.2	0.9	1.0	0.9	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5	0.5
Female	1.7	1.7	1.6	1.4	1.5	1.3	1.0	1.1	1.3	1.3	1.3	1.1	1.2	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.6
White	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.8	1.1	0.9	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.5	0.5	0.4
Black	4.0	4.0	2.9	2.7	2.8	2.4	1.6	1.9	2.6	2.9	2.7	2.3	2.3	1.8	2.0	1.7	1.7	1.4	1.5	1.3	1.5	1.2	1.1	0.9
Other race	6.2	5.7	6.3	5.3	3.3	3.9	2.6	2.4	3.5	2.7	3.8	.	3.7	4.4	2.3	2.6	2.4	2.5	2.0	0.9	2.8	1.8	1.6	1.3
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1.6	1.3	1.4	1.3	1.4	1.1	1.0	0.9
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4
Diabetes	3.5	3.4	2.7	2.6	2.2	2.0	1.6	1.7	2.2	1.7	1.9	1.5	1.8	1.6	1.5	1.4	1.3	1.3	1.2	1.2	1.1	1.0	0.9	0.8
Hypertension	3.8	3.3	2.8	2.4	2.4	1.9	1.5	1.7	3.1	2.6	2.7	2.2	2.0	1.7	1.7	1.5	1.4	1.3	1.4	1.4	1.2	1.1	0.9	0.9
Glomerulonephritis	1.8	1.7	1.5	1.4	1.4	1.2	1.0	1.3	1.8	1.5	1.3	1.1	1.3	1.3	1.2	1.1	1.0	1.0	1.0	1.0	1.1	0.9	0.7	0.7
Other cause	1.8	1.8	1.7	1.6	1.4	1.3	1.1	1.2	1.5	1.6	1.6	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.1	0.9	0.9	0.8	0.8	0.7
First transplant	1.2	1.1	1.0	1.0	0.9	0.8	0.7	0.7	1.0	0.9	0.9	0.7	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.5	0.4	0.4
Subsequent transplants	4.2	5.9	3.7	3.2	2.9	3.0	1.6	2.7	3.1	3.5	3.7	2.9	2.7	2.5	2.8	2.0	1.9	2.1	1.8	2.0	1.9	1.6	1.4	1.1
All	1.2	1.1	1.0	0.9	0.9	0.8	0.6	0.7	1.0	0.9	0.9	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4

ADJUSTED

0-19

20-44

45-64

65-74

75+

Male

Female

White

Black

Other race

Diabetes

Hypertension

Glomerulonephritis

Other cause

First transplant

Subsequent transplants

All

Table F.9

Two-year graft survival probabilities: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	100.0	100.0	33.3	75.0	71.4	80.0	100.0	62.5	62.5	91.7	80.0	100.0	50.0	92.9	100.0	81.8	60.0	100.0	80.0	100.0	75.0	92.3	100
1-4	75.0	100.0	46.2	56.3	76.9	66.7	73.3	84.2	70.0	100.0	84.6	88.9	76.9	78.6	87.5	93.3	77.3	86.4	86.7	92.3	87.5	100.0	86.96
5-9	77.8	88.2	60.7	55.0	84.0	85.7	69.6	74.1	82.4	81.8	90.5	89.3	88.9	68.2	87.5	83.3	81.5	100.0	92.3	100.0	92.9	85.2	96.3
10-14	77.8	82.5	64.4	80.4	81.7	83.7	76.3	76.3	73.2	97.6	69.0	91.3	86.1	84.6	95.1	91.9	90.7	87.5	90.0	92.1	75.0	92.1	89.8
15-19	77.8	79.6	85.9	76.7	80.7	79.2	85.3	85.3	81.3	87.3	79.5	84.6	77.3	89.6	87.5	82.4	88.5	89.9	90.6	88.5	90.5	89.6	89.01
20-29	85.4	85.5	81.0	83.5	83.4	86.7	84.8	82.7	83.2	85.1	90.0	89.0	87.6	87.4	89.5	90.3	88.4	88.5	86.7	87.4	87.3	88.4	89.56
30-39	87.3	77.1	80.3	82.0	85.0	83.5	90.1	87.6	83.4	88.8	87.0	89.3	86.9	86.1	88.4	89.7	88.4	90.8	90.7	88.6	91.2	90.5	91.03
40-49	77.1	78.7	81.1	78.9	85.7	87.0	90.8	84.7	89.1	89.4	84.9	85.2	89.5	91.5	86.1	89.9	89.5	88.0	91.8	92.3	90.0	91.1	90.79
50-59	81.1	72.9	80.3	83.8	84.2	87.6	90.3	88.1	82.6	85.1	82.5	87.6	86.7	82.5	87.0	86.0	88.1	89.7	89.7	89.0	88.0	90.0	89.82
60-64	.	100.0	69.2	90.9	87.5	92.9	91.8	84.1	72.2	87.9	82.1	77.8	89.8	89.1	81.0	78.6	89.8	85.6	87.9	91.3	90.2	86.0	88.62
65-69	100.0	100.0	0.0	80.0	100.0	90.0	83.9	82.8	71.4	83.3	83.3	76.5	81.4	85.3	94.9	76.9	84.9	86.8	88.4	92.2	89.7	89.4	89.21
70-79	.	.	.	100.0	100.0	100.0	71.4	100.0	.	.	66.7	100.0	100.0	85.7	72.7	85.7	90.9	93.3	73.2	84.8	83.9	85.9	85.33
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	100.0	.	100.0	100
Male	81.5	78.9	79.6	79.2	84.4	86.4	88.5	84.8	80.1	87.9	86.5	88.3	87.8	87.7	88.0	87.8	89.4	90.3	90.1	90.5	89.0	90.4	90.25
Female	85.6	82.6	79.4	83.6	83.7	84.0	87.8	85.7	87.7	87.3	85.2	86.6	85.6	85.9	87.6	88.0	87.0	87.5	88.2	88.8	89.1	88.4	89.42
White	83.4	81.3	80.4	81.9	85.5	86.8	88.4	85.2	83.1	88.6	86.4	88.4	87.7	87.8	89.0	88.6	89.4	89.4	89.5	90.0	89.9	90.5	90.34
Black	81.7	74.1	73.7	74.2	75.7	77.9	85.5	83.1	81.2	79.1	80.5	80.3	81.2	84.3	81.3	83.9	82.3	87.0	87.1	86.7	85.7	85.4	86.38
Other race	80.0	76.9	81.1	83.3	86.0	86.4	92.7	91.5	89.7	96.0	90.7	98.3	88.5	81.4	91.4	90.2	94.4	91.5	95.2	98.1	85.9	90.8	94.19
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	89.9	92.1	90.8	91.7	89.5	92.6	91.5
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	88.1	88.5	89.0	89.4	88.9	89.1	89.65
Diabetes	78.1	71.5	72.9	71.9	78.6	80.0	84.3	82.3	80.0	88.7	83.0	85.8	84.1	86.1	87.3	87.3	87.3	88.6	89.2	88.9	86.7	89.7	88.48
Hypertension	84.9	85.3	78.8	80.6	84.8	86.3	89.1	88.5	80.0	87.2	82.6	85.0	84.9	88.7	86.2	89.2	87.1	90.0	88.0	88.3	89.5	89.6	90.06
Glomerulonephritis	85.0	81.7	81.8	84.1	83.9	87.9	89.7	87.2	81.8	87.4	89.2	89.2	88.1	85.7	88.0	87.9	90.0	88.8	90.0	90.0	88.4	89.0	90.9
Other cause	82.9	80.9	80.5	82.3	87.1	86.4	89.0	83.7	87.7	87.4	85.5	88.6	88.5	87.9	89.1	87.7	88.0	89.2	89.4	91.0	91.0	90.1	90.12
First transplant	83.1	80.3	79.5	80.8	84.1	85.8	87.8	85.4	82.8	87.9	86.9	88.1	86.8	86.9	88.5	88.0	88.4	89.4	89.5	90.3	89.6	90.1	90.32
Subsequent transplants	84.4	82.5	80.3	81.5	85.0	82.1	91.3	82.8	86.4	85.0	75.2	82.2	87.0	87.5	81.3	87.4	87.6	86.1	87.7	85.8	84.7	85.7	86.88
All	83.1	80.4	79.5	80.9	84.2	85.5	88.2	85.2	83.1	87.7	85.9	87.6	86.8	87.0	87.8	87.9	88.3	89.1	89.3	89.8	89.0	89.6	89.9
ADJUSTED																							
0-19	59.1	59.1	58.4	59.6	59.5	57.9	62.2	62.0	60.9	63.5	64.3	69.8	70.7	73.7	75.5	68.5	78.0	81.1	78.9	79.5	75.0	82.0	83.82
20-44	54.0	56.3	57.0	56.1	61.8	66.5	64.5	64.6	67.3	71.5	73.3	77.8	76.9	77.0	79.4	82.1	82.1	83.6	85.9	83.5	83.8	85.9	85.88
45-64	44.1	49.3	51.7	51.5	59.6	62.5	62.4	64.3	68.3	70.7	73.5	75.9	75.6	76.3	77.6	80.2	80.1	81.9	81.4	82.0	81.4	81.5	82
65-74	48.1	41.7	100.0	39.3	42.6	52.9	62.2	55.1	61.6	66.5	70.5	72.5	75.6	69.6	71.2	71.9	76.0	73.7	75.5	74.0	76.8	75.6	76.08
75+	.	.	.	100.0	0.0	100.0	.	100.0	52.9	83.2	73.4	77.9	74.9	42.7	68.8	65.7	67.7	72.7	73.2	73.7	67.7	69.0	75.31
Male	49.8	52.3	52.8	52.3	58.6	63.6	61.5	62.2	65.5	70.0	72.0	76.0	75.1	76.4	78.1	79.4	81.0	82.3	82.7	82.9	82.6	82.4	82.54
Female	50.1	52.9	55.0	54.4	59.6	61.8	63.1	63.8	67.6	69.7	72.3	76.0	76.6	74.7	77.2	80.8	79.9	81.5	82.8	80.5	80.9	83.5	84.16
White	52.7	55.9	56.2	55.3	60.8	65.4	64.2	64.3	68.6	72.2	73.8	77.6	77.6	77.2	79.2	80.9	82.2	83.0	84.2	84.0	84.3	84.0	85.02
Black	43.0	44.5	47.2	47.1	53.8	56.4	55.8	58.6	59.1	62.3	68.4	71.2	70.4	71.3	73.8	76.9	76.3	78.6	78.5	76.0	76.3	79.2	78.7
Other race	40.3	41.5	47.1	46.9	64.0	61.5	66.4	64.0	72.7	80.2	71.1	82.3	80.0	81.6	79.1	84.0	82.2	86.1	85.8	86.8	83.0	85.7	83.91
Diabetes	45.7	52.7	51.0	47.9	55.3	64.6	59.8	60.5	65.0	71.3	69.8	74.3	73.3	74.9	78.4	80.2	80.1	79.9	81.4	81.6	81.1	82.1	82
Hypertension	55.1	59.7	55.6	58.3	62.7	62.7	64.0	64.0	69.6	69.9	73.9	77.4	77.1	76.7	78.7	80.1	82.3	82.5	82.5	81.7	81.0	82.3	81.84
Glomerulonephritis	57.5	54.5	55.9	55.9	62.4	65.1	63.3	65.0	67.4	70.3	73.2	77.2	76.7	77.2	77.5	79.8	79.6	83.1	83.4	81.6	82.9	84.3	84.45
Other cause	48.0	52.1	55.1	53.3	58.3	61.8	62.7	63.1	65.0	69.1	72.5	75.5	76.0	74.1	76.3	79.6	80.4	82.8	83.8	83.1	83.0	82.7	84.53
First transplant	50.9	53.6	54.7	55.0	60.9	65.4	63.4	63.7	68.0	71.1	73.4	77.2	76.5	76.6	78.7	81.1	81.2	82.7	83.5	82.7	83.0	83.7	83.71
Subsequent transplants	42.8	45.5	46.5	41.2	48.2	50.3	54.3	57.8	56.5	62.5	64.8	68.9	70.6	70.3	72.0	72.7	77.1	77.8	77.9	77.8	75.9	77.6	80.3
All	40.9	43.6	44.6	39.3	46.3	48.5	52.5	56.1	54.7	60.9	63.2	67.4	69.2	69.0	70.7	71.4	76.0	76.7	76.8	76.7	74.7	76.5	79.31

Table F.10

Three-year graft survival probabilities: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	100.0	75.0	33.3	75.0	71.4	80.0	100.0	50.0	62.5	91.7	80.0	100.0	33.3	92.9	100.0	81.8	60.0	100.0	80.0	100.0	50.0	92.3
1-4	75.0	100.0	46.2	43.8	76.9	66.7	73.3	79.0	70.0	100.0	76.9	88.9	76.9	78.6	87.5	93.3	77.3	86.4	86.7	92.3	87.5	100.0
5-9	72.2	82.4	50.0	45.0	72.0	85.7	65.2	74.1	64.7	81.8	85.7	82.1	85.2	68.2	87.5	83.3	77.8	100.0	88.5	100.0	85.7	85.2
10-14	73.3	62.5	60.0	73.2	78.3	71.4	76.3	76.3	68.3	97.6	58.6	87.0	79.1	79.5	92.7	86.5	88.4	84.4	85.0	86.8	75.0	92.1
15-19	74.6	73.8	83.0	72.5	73.9	76.6	74.7	76.8	78.8	83.1	71.8	76.9	72.0	77.9	81.3	73.0	84.6	83.2	81.3	77.1	82.5	85.7
20-29	82.1	80.1	76.4	77.2	79.9	80.5	81.0	78.9	79.4	80.6	84.1	84.2	84.7	81.6	86.2	84.2	82.8	85.0	81.4	82.1	83.6	82.8
30-39	80.8	71.8	75.1	77.5	80.1	78.1	86.4	85.0	79.1	85.5	83.9	84.7	85.0	83.5	84.0	88.1	83.6	85.5	84.9	85.8	87.8	86.8
40-49	72.5	68.7	75.0	75.4	78.2	83.1	88.4	82.2	86.3	85.6	81.9	81.4	85.9	87.5	82.7	86.9	86.3	83.7	87.5	88.1	86.0	87.6
50-59	70.3	65.9	72.4	79.4	79.0	83.5	88.7	84.4	76.2	79.4	80.4	81.4	84.5	77.8	81.0	79.5	84.6	84.6	86.2	86.3	84.4	87.1
60-64	.	100.0	69.2	90.9	78.1	92.9	90.2	78.3	72.2	81.8	82.1	73.3	85.7	79.7	73.0	72.5	86.4	83.3	84.5	82.7	84.5	81.3
65-69	0.0	100.0	0.0	80.0	100.0	90.0	83.9	79.3	71.4	83.3	72.2	76.5	74.4	76.5	87.2	69.2	80.2	84.6	81.3	87.0	85.6	87.9
70-79	.	.	.	100.0	100.0	100.0	71.4	85.7	.	.	66.7	100.0	100.0	85.7	63.6	85.7	90.9	83.3	70.7	84.8	74.7	83.7
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	100.0	.	100.0
Male	76.6	72.0	74.1	74.4	79.2	81.0	84.9	81.1	75.8	84.5	82.1	83.7	84.4	83.2	83.4	83.5	85.2	86.2	85.2	86.4	84.9	86.6
Female	80.7	75.8	74.6	78.2	78.5	80.2	85.1	82.7	84.0	82.7	81.0	81.7	82.7	80.9	83.6	83.9	83.1	82.8	83.5	84.3	84.8	85.3
White	78.8	74.8	75.1	76.5	81.0	82.3	85.6	81.8	79.6	84.8	82.2	83.9	85.1	83.6	85.2	84.9	85.6	85.5	85.1	86.6	85.6	87.2
Black	74.4	64.3	68.2	71.1	65.3	70.8	79.9	79.6	72.5	74.5	75.8	74.0	77.0	76.6	74.7	76.3	76.5	81.3	79.9	79.4	82.0	80.4
Other race	73.3	71.8	78.4	81.0	84.0	81.4	87.8	89.0	87.2	92.0	86.1	93.0	78.9	79.7	86.0	87.0	91.6	85.1	91.7	93.5	83.0	88.3
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	84.1	89.4	87.8	87.9	86.2	89.4
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	84.3	83.9	83.9	85.1	84.6	85.5
Diabetes	71.4	62.8	65.1	64.9	72.6	75.4	80.1	78.4	76.0	84.9	78.1	80.2	81.4	80.3	82.5	83.6	82.8	82.7	84.1	84.3	82.5	85.6
Hypertension	77.3	78.4	71.5	78.2	78.1	79.6	85.1	85.3	73.3	79.7	77.8	80.3	80.5	83.1	81.0	83.3	83.7	85.6	81.4	85.4	84.3	87.9
Glomerulonephritis	81.3	76.9	77.6	78.8	78.8	82.7	86.8	83.7	78.2	84.3	85.7	84.9	85.8	81.3	83.0	83.6	86.4	85.0	85.2	84.7	83.5	84.2
Other cause	78.2	72.9	76.2	77.7	82.7	82.5	86.4	80.5	84.0	84.0	81.1	84.1	84.9	84.0	86.2	83.9	83.4	85.4	85.5	87.3	88.2	87.1
First transplant	78.0	73.6	74.2	75.7	78.6	80.8	84.4	82.0	78.9	84.0	82.5	83.8	83.5	82.1	84.1	83.7	84.6	85.2	84.5	85.9	85.9	86.8
Subsequent transplants	82.2	72.5	74.7	78.3	82.0	79.3	89.4	79.6	79.6	80.7	71.6	74.1	85.5	83.3	77.3	83.6	81.0	79.7	84.2	82.1	76.9	80.9
All	78.2	73.5	74.3	75.9	78.9	80.7	84.9	81.7	79.0	83.8	81.6	82.9	83.7	82.2	83.5	83.7	84.2	84.7	84.5	85.5	84.9	86.1
ADJUSTED																						
0-19	50.9	51.3	52.3	52.9	52.6	51.2	51.5	53.5	52.7	58.7	55.3	66.3	64.6	64.2	69.4	60.4	68.2	73.6	70.9	71.8	67.1	75.3
20-44	47.8	49.3	50.3	49.8	54.2	58.2	57.1	57.4	61.6	65.3	68.0	72.2	71.9	71.1	74.5	76.3	77.0	78.2	79.9	78.5	78.2	81.1
45-64	39.2	40.8	44.2	43.9	53.2	55.5	54.4	57.1	63.0	65.1	67.8	69.7	70.1	70.9	72.3	74.5	75.5	76.0	75.9	77.0	76.2	76.3
65-74	38.3	20.1	100.0	39.3	38.5	46.8	55.7	50.5	54.8	58.7	62.7	65.1	68.2	62.8	65.8	65.4	69.8	65.2	68.9	65.8	71.0	69.1
75+	.	.	.	100.0	0.0	100.0	.	100.0	53.1	64.8	61.4	78.9	75.5	42.3	56.9	55.0	61.6	64.0	67.7	72.0	65.9	61.8
Male	44.2	45.0	45.2	45.5	50.7	55.1	53.3	54.6	59.6	63.6	66.7	69.5	69.5	70.2	72.7	73.5	76.1	76.3	76.9	78.0	77.3	77.0
Female	42.8	44.6	48.9	47.7	53.3	54.5	55.8	56.9	61.9	63.9	65.9	70.7	71.4	69.3	72.0	74.9	74.4	75.7	76.8	74.4	75.3	78.7
White	46.5	48.4	49.5	48.9	53.7	58.0	57.6	57.5	63.5	66.8	68.8	72.7	72.8	72.0	75.0	76.0	78.0	77.9	78.8	79.2	79.6	79.5
Black	36.7	35.3	39.1	38.7	45.8	46.6	43.7	49.7	51.4	54.1	60.2	62.4	63.0	63.3	66.0	68.1	69.1	70.4	71.7	69.6	68.8	72.2
Other race	33.4	38.6	39.7	45.8	57.9	53.3	62.3	57.0	66.7	74.7	67.5	75.9	75.3	76.7	73.9	80.2	76.9	81.0	79.4	80.7	79.7	82.1
Diabetes	41.2	48.7	42.1	42.1	47.5	55.2	51.9	52.1	59.9	64.7	64.3	69.2	66.0	68.9	72.7	74.5	74.6	74.1	75.2	75.8	75.6	76.4
Hypertension	49.1	51.2	50.8	48.9	55.8	55.6	55.0	56.1	62.0	62.4	66.9	69.9	71.2	70.6	73.4	72.4	76.4	76.2	77.1	75.6	74.6	76.4
Glomerulonephritis	50.8	47.5	48.8	49.1	55.9	57.0	56.2	58.0	61.8	64.6	67.6	71.4	71.9	70.9	71.5	74.0	75.3	77.0	76.9	76.6	77.3	80.1
Other cause	41.7	43.1	48.1	47.5	50.6	54.3	54.9	56.8	59.9	63.8	67.5	69.8	72.1	68.8	72.2	74.9	75.6	77.2	78.8	78.4	78.7	77.8
First transplant	35.8	37.2	42.2	41.7	44.8	48.7	49.3	51.3	54.6	58.7	62.7	65.4	67.8	64.2	67.9	71.0	71.7	73.5	75.3	74.9	75.3	74.3
Subsequent transplants	35.1	39.0	39.3	33.5	41.2	42.5	46.1	52.3	49.9	56.9	59.0	61.6	66.7	63.7	67.8	66.1	71.4	71.1	71.0	71.9	68.9	71.7
All	33.2	37.1	37.4	31.7	39.3	40.6	44.2	50.5	48.1	55.2	57.3	60.0	65.2	62.2	66.4	64.6	70.1	69.8	69.7	70.6	67.5	70.5

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	.	18.8	20.0	18.8	15.7	16.0	.	16.1	15.8	7.6	16.0	.	16.4	6.6	.	11.1	19.2	.	12.0	.	20.8	7.1
1-4	18.8	.	13.0	11.8	11.2	12.9	11.0	9.1	13.6	.	11.2	7.2	11.2	10.5	10.9	6.2	8.7	7.1	8.5	7.1	8.0	.
5-9	10.2	9.0	9.2	10.7	8.8	7.4	9.6	8.3	11.2	8.0	7.4	7.0	6.7	9.6	8.0	7.4	7.8	.	6.1	.	9.0	6.6
10-14	6.5	7.5	7.2	5.9	5.3	6.4	6.8	6.8	7.2	2.4	8.9	4.9	6.1	6.4	4.0	5.5	4.8	6.3	5.6	5.4	8.0	4.3
15-19	5.4	4.3	3.6	4.1	4.7	4.8	4.4	4.3	4.5	4.4	5.1	4.7	5.1	4.7	4.3	5.1	4.1	3.9	4.8	5.3	4.7	4.0
20-29	2.3	2.4	2.2	2.2	2.1	2.1	1.9	2.1	2.3	2.3	1.9	1.9	2.0	2.0	1.7	1.9	2.0	1.9	2.1	2.0	2.0	1.9
30-39	2.7	2.5	2.3	2.2	2.0	2.0	1.5	1.7	2.3	1.9	1.9	1.8	1.8	1.7	1.4	1.7	1.7	1.7	1.7	1.8	1.5	1.4
40-49	3.9	3.8	3.0	2.8	2.7	2.0	1.6	1.9	2.6	2.4	2.4	2.3	2.0	1.8	1.9	1.6	1.6	1.8	1.7	1.6	1.5	1.3
50-59	7.4	5.1	4.0	3.5	3.1	2.5	1.8	2.1	4.1	3.4	3.3	2.9	2.7	2.6	2.4	2.3	2.0	1.9	1.8	1.7	1.7	1.4
60-64	.	.	12.2	8.3	7.2	3.9	3.8	4.9	10.2	6.6	7.1	6.5	4.9	5.0	5.5	4.5	3.1	3.2	3.3	3.1	2.7	2.3
65-69	.	.	.	16.0	.	9.0	6.5	7.4	15.7	13.9	10.2	9.9	6.6	7.2	5.3	5.7	4.3	3.8	3.7	3.1	2.7	2.3
70-79	.	.	.	.	.	.	15.7	12.2	.	.	22.2	.	.	12.2	13.7	7.4	6.0	6.7	7.0	5.2	4.6	3.8
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	2.0	1.8	1.5	1.5	1.4	1.3	1.1	1.2	1.7	1.4	1.4	1.3	1.2	1.2	1.2	1.1	1.1	1.0	1.1	1.0	1.0	0.8
Female	2.2	2.2	2.0	1.8	1.8	1.6	1.3	1.4	1.8	1.7	1.6	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.2	1.1	1.0
White	1.6	1.5	1.3	1.3	1.2	1.1	0.9	1.0	1.3	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.7
Black	4.8	4.5	3.5	3.2	3.4	3.0	2.4	2.4	3.8	3.5	3.5	3.0	2.9	2.5	2.5	2.4	2.3	2.1	2.1	2.0	1.9	1.8
Other race	11.0	7.1	6.7	6.0	5.1	5.0	3.6	3.4	5.3	3.8	5.2	3.4	5.6	5.2	3.6	3.5	3.3	3.7	3.0	2.4	3.6	2.5
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.3	1.8	1.9	1.8	1.8	1.5
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.9	0.9	0.9	0.9	0.9	0.8	0.7
Diabetes	4.4	4.1	3.2	3.1	2.8	2.3	1.9	2.1	2.7	2.2	2.4	2.1	2.1	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.3
Hypertension	5.1	4.1	3.7	3.2	3.1	2.8	2.1	2.2	4.0	3.3	3.5	2.9	2.6	2.3	2.2	2.1	2.1	2.0	2.2	1.9	1.8	1.5
Glomerulonephritis	2.4	2.2	1.9	1.9	1.8	1.7	1.4	1.5	2.1	1.8	1.6	1.7	1.6	1.8	1.6	1.5	1.4	1.4	1.5	1.5	1.5	1.3
Other cause	2.2	2.2	2.0	1.9	1.7	1.7	1.4	1.6	2.0	1.9	1.9	1.7	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.1
First transplant	1.5	1.4	1.3	1.2	1.2	1.0	0.9	0.9	1.3	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.8	0.9	0.8	0.8	0.7
Subsequent transplants	5.6	6.9	5.1	4.3	3.3	3.4	2.1	2.9	4.0	4.1	4.3	3.8	3.1	3.1	3.2	2.6	2.7	2.9	2.4	2.6	2.6	2.1
All	1.5	1.4	1.2	1.2	1.1	1.0	0.8	0.9	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.6

ADJUSTED

0-19

20-44

45-64

65-74

75+

Male

Female

White

Black

Other race

Diabetes

Hypertension

Glomerulonephritis

Other cause

First transplant

Subsequent transplants

All

Table F.11

Five-year graft survival probabilities: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<1	66.7	50	33.3	50	42.9	80	75	37.5	62.5	91.7	80	100	33.3	92.9	100	81.8	60	100	80	100
1-4	75.0	87.5	30.8	37.5	53.9	58.3	73.3	68.4	60.0	100.0	76.9	83.3	76.9	78.6	87.5	80.0	77.3	86.4	80.0	92.3
5-9	61.1	70.6	46.4	30.0	68.0	76.2	60.9	66.7	47.1	77.3	76.2	78.6	70.4	68.2	81.3	70.8	77.8	84.2	88.5	94.7
10-14	64.4	52.5	57.8	58.9	60.0	59.2	60.5	68.4	63.4	80.5	48.3	80.4	65.1	64.1	90.2	75.7	79.1	71.9	85.0	81.6
15-19	61.9	68.0	69.8	62.5	63.6	64.9	67.4	64.2	67.5	67.6	62.8	71.8	68.0	54.6	70.0	63.5	73.1	66.3	65.6	72.1
20-29	71.8	72.7	66.2	68.2	68.5	72.6	71.3	72.3	72.6	73.1	75.5	75.8	74.3	73.8	74.2	74.5	72.0	73.2	69.8	73.9
30-39	75.1	62.2	66.7	71.6	73.2	69.9	79.3	79.0	69.5	79.8	74.9	76.5	75.3	75.2	74.3	80.4	76.3	79.8	79.1	77.7
40-49	61.8	62.7	67.5	68.1	69.3	76.9	80.0	78.6	77.7	80.8	73.8	69.7	76.4	77.2	74.2	78.6	76.5	76.2	79.5	79.2
50-59	59.5	56.5	63.0	71.3	71.9	77.1	83.3	77.6	64.2	72.3	65.0	68.9	74.6	69.7	73.6	70.2	74.5	75.1	74.9	79.5
60-64	.	66.7	61.5	72.7	75.0	90.5	88.5	69.6	61.1	66.7	57.1	64.4	73.5	67.2	52.4	62.2	72.9	71.2	71.6	70.0
65-69	0.0	100.0	0.0	80.0	100.0	60.0	77.4	69.0	71.4	83.3	61.1	76.5	65.1	55.9	74.4	58.5	74.4	75.8	65.2	69.6
70-79	.	.	.	100.0	0.0	100.0	71.4	85.7	.	.	33.3	75.0	100.0	85.7	54.6	71.4	72.7	70.0	58.5	73.9
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	50.0
Male	66.7	63.7	64.7	66.4	68.4	72.8	77.5	75.1	67.4	77.1	73.1	75.1	74.8	73.5	73.0	75.4	76.4	75.7	76.1	77.7
Female	72.1	67.8	66.3	69.8	71.4	73.1	77.1	75.8	74.5	75.6	70.3	72.1	72.8	71.4	74.5	73.7	72.9	75.3	73.5	75.6
White	69.8	67.0	66.0	68.2	72.1	75.0	78.0	75.8	72.2	78.7	72.8	75.7	75.9	75.3	75.8	76.3	76.8	76.9	75.9	78.7
Black	61.0	54.5	59.8	63.4	52.3	61.1	71.3	71.5	57.3	59.5	62.4	60.1	62.9	61.5	61.2	65.6	65.2	68.6	68.8	66.8
Other race	73.3	59.0	70.3	73.8	80.0	72.9	84.2	81.7	69.2	86.0	79.1	84.2	73.1	67.8	80.7	79.4	77.5	78.7	84.5	86.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	76.7	81.1	79.5	82.2
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	74.6	74.6	74.2	75.8
Diabetes	65.7	55.5	55.5	56.2	62.1	67.8	71.4	71.8	66.0	77.0	67.0	69.8	69.4	69.2	70.5	74.0	72.0	72.9	72.3	71.9
Hypertension	68.2	66.7	62.9	69.1	68.5	73.5	77.5	80.2	59.2	70.3	63.9	65.8	67.5	72.2	70.3	71.3	73.2	76.3	70.4	74.0
Glomerulonephritis	71.2	67.2	67.2	71.3	70.2	75.4	80.4	77.2	70.8	78.0	78.0	75.7	76.9	73.2	72.8	75.4	75.3	74.8	76.5	76.7
Other cause	68.4	66.5	68.8	69.5	73.4	73.6	78.4	74.0	76.3	77.0	71.5	78.8	77.5	74.8	78.9	76.3	77.3	77.8	77.8	81.9
First transplant	68.7	65.2	65.2	67.4	68.8	72.6	76.7	75.5	70.4	76.7	73.1	74.8	73.6	73.0	74.3	74.9	75.6	76.0	75.1	77.2
Subsequent transplants	73.3	67.5	66.2	71.7	77.4	76.6	82.6	74.7	68.0	74.2	57.8	63.7	77.9	68.8	67.1	73.0	68.1	71.1	74.1	73.4
All	68.9	65.3	65.3	67.7	69.6	72.9	77.4	75.4	70.2	76.5	71.9	73.8	74.0	72.7	73.6	74.7	74.9	75.5	75.0	76.8
ADJUSTED																				
0-19	50.9	51.3	52.3	52.9	52.6	51.2	51.5	53.5	52.7	58.7	55.3	66.3	64.6	64.2	69.4	60.4	68.2	73.6	70.9	71.8
20-44	47.8	49.3	50.3	49.8	54.2	58.2	57.1	57.4	61.6	65.3	68.0	72.2	71.9	71.1	74.5	76.3	77.0	78.2	79.9	78.5
45-64	39.2	40.8	44.2	43.9	53.2	55.5	54.4	57.1	63.0	65.1	67.8	69.7	70.1	70.9	72.3	74.5	75.5	76.0	75.9	77.0
65-74	38.3	20.1	100.0	39.3	38.5	46.8	55.7	50.5	54.8	58.7	62.7	65.1	68.2	62.8	65.8	65.4	69.8	65.2	68.9	65.8
75+	.	.	.	100.0	0.0	100.0	.	100.0	53.1	64.8	61.4	78.9	75.5	42.3	56.9	55.0	61.6	64.0	67.7	72.0
Male	44.2	45.0	45.2	45.5	50.7	55.1	53.3	54.6	59.6	63.6	66.7	69.5	69.5	70.2	72.7	73.5	76.1	76.3	76.9	78.0
Female	42.8	44.6	48.9	47.7	53.3	54.5	55.8	56.9	61.9	63.9	65.9	70.7	71.4	69.3	72.0	74.9	74.4	75.7	76.8	74.4
White	46.5	48.4	49.5	48.9	53.7	58.0	57.6	57.5	63.5	66.8	68.8	72.7	72.8	72.0	75.0	76.0	78.0	77.9	78.8	79.2
Black	36.7	35.3	39.1	38.7	45.8	46.6	43.7	49.7	51.4	54.1	60.2	62.4	63.0	63.3	66.0	68.1	69.1	70.4	71.7	69.6
Other race	33.4	38.6	39.7	45.8	57.9	53.3	63.3	57.0	66.7	74.7	67.5	75.9	75.3	76.7	73.9	80.2	76.9	81.0	79.4	80.7
Diabetes	41.2	48.7	42.1	42.1	47.5	55.2	51.9	52.1	59.9	64.7	64.3	69.2	66.0	68.9	72.7	74.5	74.6	74.1	75.2	75.8
Hypertension	49.1	51.2	50.8	48.9	55.8	55.6	55.0	56.1	62.0	62.4	66.9	69.9	71.2	70.6	73.4	72.4	76.4	76.2	77.1	75.6
Glomerulonephritis	50.8	47.5	48.8	49.1	55.9	57.0	56.2	58.0	61.8	64.6	67.6	71.4	71.9	70.9	71.5	74.0	75.3	77.0	76.9	76.6
Other cause	41.7	43.1	48.1	47.5	50.6	54.3	54.9	56.8	59.9	63.8	67.5	69.8	72.1	68.8	72.2	74.9	75.6	77.2	78.8	78.4
First transplant	35.8	37.2	42.2	41.7	44.8	48.7	49.3	51.3	54.6	58.7	62.7	65.4	67.8	64.2	67.9	71.0	71.7	73.5	75.3	74.9
Subsequent transplants	35.1	39.0	39.3	33.5	41.2	42.5	46.1	52.3	49.9	56.9	59.0	61.6	66.7	63.7	67.8	66.1	71.4	71.1	71.0	71.9
All	33.2	37.1	37.4	31.7	39.3	40.6	44.2	50.5	48.1	55.2	57.3	60.0	65.2	62.2	66.4	64.6	70.1	69.8	69.7	70.6

Table F.12

Ten-year graft survival probabilities: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<1	66.67	25	33.33	25	28.57	40	75	25	50	83.33	80	77.78	33.33	85.71	66.67
1-4	25.0	62.5	15.4	37.5	38.5	50.0	53.3	63.2	50.0	75.0	61.5	50.0	69.2	64.3	75.0
5-9	50.0	47.1	25.0	25.0	44.0	52.4	47.8	40.7	17.7	54.6	57.1	67.9	44.4	45.5	56.3
10-14	42.2	32.5	44.4	37.5	36.7	42.9	36.8	50.0	43.9	53.7	31.0	52.2	51.2	48.7	61.0
15-19	47.6	51.5	47.2	42.5	53.4	37.7	51.6	48.4	46.3	56.3	32.1	51.3	46.7	44.2	42.5
20-29	61.1	56.7	48.3	53.3	53.3	55.0	51.1	52.3	58.4	54.4	54.0	58.0	51.0	56.7	52.5
30-39	56.8	50.2	51.3	56.8	54.4	50.2	55.0	56.8	50.8	60.4	58.0	57.5	52.5	55.5	55.0
40-49	45.0	44.0	50.0	51.3	47.5	54.7	57.5	51.3	54.3	54.8	51.0	53.8	57.2	53.0	50.1
50-59	35.1	40.0	40.2	53.7	50.3	48.6	52.7	51.9	47.7	45.4	39.9	42.9	45.9	45.5	43.5
60-64	.	66.7	46.2	45.5	53.1	66.7	60.7	37.7	38.9	36.4	21.4	40.0	36.7	32.8	28.6
65-69	0.0	100.0	0.0	60.0	50.0	40.0	38.7	41.4	28.6	33.3	44.4	64.7	46.5	17.7	38.5
70-79	.	.	.	0.0	0.0	50.0	28.6	42.9	.	.	33.3	25.0	100.0	28.6	45.5
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	51.6	48.6	46.2	49.6	50.6	50.9	53.0	51.5	49.3	55.2	51.7	57.0	52.0	52.7	49.3
Female	56.1	51.4	49.6	54.7	51.8	52.6	54.4	52.6	55.6	54.7	49.0	50.8	50.4	49.7	50.9
White	54.0	51.6	48.5	53.7	53.4	53.4	55.7	53.7	54.4	57.1	52.4	56.8	53.5	54.5	52.3
Black	46.3	37.5	39.1	39.2	35.2	38.9	39.2	40.9	33.3	38.6	35.6	35.6	37.6	38.5	36.5
Other race	66.7	43.6	56.8	52.4	58.0	59.3	58.5	58.5	53.9	64.0	53.5	71.9	55.8	45.8	58.1
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	45.7	36.5	34.4	38.8	34.7	39.4	42.3	43.0	42.8	50.6	41.2	43.3	41.7	41.3	39.8
Hypertension	57.6	55.9	44.4	49.7	50.0	47.9	52.4	48.8	37.5	43.9	43.8	44.6	42.4	49.6	45.6
Glomerulonephritis	54.7	51.9	50.7	55.8	52.4	55.9	58.5	55.5	53.7	57.9	56.6	58.6	55.1	53.3	53.4
Other cause	54.1	50.6	51.4	54.5	58.6	56.9	57.0	55.3	60.9	59.6	53.1	63.5	58.6	57.8	56.8
First transplant	53.1	49.2	47.5	51.6	49.9	51.6	54.1	53.0	52.0	55.8	51.4	54.8	51.5	51.9	50.6
Subsequent transplants	60.0	62.5	46.5	51.1	61.7	51.7	49.3	43.0	49.5	45.2	40.4	49.6	48.9	47.2	44.3
All	53.5	49.7	47.4	51.6	51.0	51.6	53.6	52.0	51.7	55.0	50.5	54.3	51.3	51.5	50.0
ADJUSTED															
0-19	50.91	51.28	52.32	52.91	52.58	51.19	51.45	53.49	52.65	58.67	55.3	66.25	64.64	64.24	69.41
20-44	47.8	49.3	50.3	49.8	54.2	58.2	57.1	57.4	61.6	65.3	68.0	72.2	71.9	71.1	74.5
45-64	39.2	40.8	44.2	43.9	53.2	55.5	54.4	57.1	63.0	65.1	67.8	69.7	70.1	70.9	72.3
65-74	38.3	20.1	100.0	39.3	38.5	46.8	55.7	50.5	54.8	58.7	62.7	65.1	68.2	62.8	65.8
75+	.	.	.	100.0	0.0	100.0	.	100.0	53.1	64.8	61.4	78.9	75.5	42.3	56.9
Male	44.2	45.0	45.2	45.5	50.7	55.1	53.3	54.6	59.6	63.6	66.7	69.5	69.5	70.2	72.7
Female	42.8	44.6	48.9	47.7	53.3	54.5	55.8	56.9	61.9	63.9	65.9	70.7	71.4	69.3	72.0
White	46.5	48.4	49.5	48.9	53.7	58.0	57.6	57.5	63.5	66.8	68.8	72.7	72.8	72.0	75.0
Black	36.7	35.3	39.1	38.7	45.8	46.6	43.7	49.7	51.4	54.1	60.2	62.4	63.0	63.3	66.0
Other race	33.4	38.6	39.7	45.8	57.9	53.3	62.3	57.0	66.7	74.7	67.5	75.9	75.3	76.7	73.9
Diabetes	41.2	48.7	42.1	42.1	47.5	55.2	51.9	52.1	59.9	64.7	64.3	69.2	66.0	68.9	72.7
Hypertension	49.1	51.2	50.8	48.9	55.8	55.6	55.0	56.1	62.0	62.4	66.9	69.9	71.2	70.6	73.4
Glomerulonephritis	50.8	47.5	48.8	49.1	55.9	57.0	56.2	58.0	61.8	64.6	67.6	71.4	71.9	70.9	71.5
Other cause	41.7	43.1	48.1	47.5	50.6	54.3	54.9	56.8	59.9	63.8	67.5	69.8	72.1	68.8	72.2
First transplant	35.8	37.2	42.2	41.7	44.8	48.7	49.3	51.3	54.6	58.7	62.7	65.4	67.8	64.2	67.9
Subsequent transplants	35.1	39.0	39.3	33.5	41.2	42.5	46.1	52.3	49.9	56.9	59.0	61.6	66.7	63.7	67.8
All	33.2	37.1	37.4	31.7	39.3	40.6	44.2	50.5	48.1	55.2	57.3	60.0	65.2	62.2	66.4

Table F.13

90-day probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
<1	16.67	0	0	10	16.67	27.27	0	33.33	33.33	20	0	50	50	50	0	.	0	0	0	0	0	0	.	0		
1-4	25.0	0.0	31.3	8.9	25.5	37.0	19.2	15.6	16.7	21.3	21.0	18.2	0.0	0.0	0.0	12.5	13.0	6.3	0.0	5.9	16.7	0.0	14.3	0.0		
5-9	11.5	2.8	11.4	19.4	8.3	16.8	22.2	15.7	22.6	17.9	21.1	4.6	18.8	15.0	12.9	17.2	3.5	7.7	9.7	14.3	6.3	0.0	3.6	3.2		
10-14	9.7	11.6	19.8	14.9	15.8	9.4	11.8	20.5	21.9	16.2	17.9	9.1	16.2	10.0	9.8	24.5	0.0	3.5	4.2	6.5	2.9	5.7	4.1	2.9		
15-19	5.7	11.4	13.2	12.1	12.0	16.5	11.8	12.5	17.3	12.1	12.3	14.1	13.3	11.2	11.6	8.9	9.5	6.7	11.7	9.1	9.3	7.1	5.4	2.7		
20-29	9.4	11.9	13.8	13.4	13.7	13.3	14.0	12.0	16.2	12.6	12.6	11.2	10.2	10.4	9.3	6.9	8.4	4.3	6.4	6.3	6.5	4.7	3.4	5.1		
30-39	10.7	9.2	14.0	12.9	12.3	11.1	11.9	13.5	13.4	12.6	11.6	9.4	9.1	11.1	8.7	6.7	5.9	5.8	4.2	5.3	4.8	4.8	4.5	4.1		
40-49	10.9	8.4	12.0	13.5	12.2	11.5	10.9	13.5	14.7	10.3	11.0	10.7	8.9	8.8	7.8	6.3	5.8	4.4	4.3	3.7	4.7	3.3	4.7	3.2		
50-59	11.1	9.5	12.8	13.9	7.4	9.6	10.0	8.3	9.7	10.0	8.0	8.4	8.0	8.2	6.8	5.8	5.3	4.6	5.0	4.5	4.2	4.0	4.1	4.1		
60-64	16.7	11.0	14.6	4.9	7.1	9.4	8.4	6.9	10.4	6.8	7.0	7.2	5.2	5.1	7.3	4.9	5.6	3.1	5.3	5.4	3.3	3.3	3.8	5.8		
65-69	0.0	0.0	0.0	11.9	0.0	0.0	0.0	14.0	8.3	4.9	8.0	6.3	5.9	4.9	6.8	5.3	5.6	5.4	4.1	3.1	4.6	5.6	3.8	3.5		
70-79	0.0	0.0	.	0.0	25.0	0.0	10.0	0.0	14.3	6.6	9.6	3.5	8.9	7.7	4.6	5.8	8.1	3.5	5.2	7.1	3.2	5.4	3.3	3.4		
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	0.0	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0
Male	11.0	9.9	14.1	13.2	12.0	10.5	11.0	11.6	13.2	10.8	10.2	9.3	8.7	8.4	7.2	6.4	6.0	4.0	4.9	4.3	4.0	4.2	4.2	3.9		
Female	8.9	9.4	12.4	13.1	11.2	13.6	12.5	12.9	13.8	11.3	11.3	10.0	8.7	10.0	9.2	6.5	6.0	5.7	4.9	5.6	5.6	4.1	4.3	4.2		
White	9.0	9.0	12.4	12.0	11.5	11.1	11.1	12.3	13.1	10.5	10.4	9.4	8.3	9.0	7.9	6.6	5.8	4.6	4.8	4.6	4.4	4.2	3.8	3.2		
Black	14.8	11.8	17.0	16.1	13.1	13.5	13.0	11.6	15.2	13.5	11.6	10.5	10.1	9.6	7.9	6.3	6.9	5.1	5.3	5.8	5.4	4.4	5.2	5.6		
Other race	10.9	14.8	13.4	19.8	3.5	7.9	7.6	10.0	8.7	4.3	8.6	7.4	7.1	6.3	9.5	4.6	3.2	3.0	3.1	2.1	3.5	3.0	4.4	3.5		
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6.1	3.6	3.5	4.1	3.2	3.0	2.8	3.0
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6.0	4.8	5.1	4.9	4.8	4.3	4.5	4.2
Diabetes	9.5	6.4	8.3	10.0	8.3	8.6	10.0	10.3	12.3	8.8	9.9	8.4	7.5	6.7	5.8	4.8	4.4	4.3	3.9	3.7	3.8	3.1	3.5	3.4		
Hypertension	12.1	10.3	17.0	13.9	11.0	10.0	11.9	10.2	12.5	11.8	9.6	9.0	8.3	8.9	7.8	5.9	5.2	4.6	4.1	4.6	4.4	4.3	4.4	4.0		
Glomerulonephritis	10.3	10.1	15.5	16.1	14.1	14.1	12.1	13.6	14.0	12.3	11.4	9.6	8.4	10.5	9.2	7.4	6.5	4.6	5.7	5.2	5.4	4.8	5.0	4.7		
Other cause	9.8	10.4	12.5	11.7	11.5	12.0	11.8	13.0	14.3	11.1	11.2	11.0	10.5	10.2	9.0	7.5	7.9	5.2	5.7	5.8	5.0	4.7	4.4	4.1		
First transplant	9.4	8.8	12.8	11.9	9.9	10.1	10.0	10.8	12.0	9.9	9.8	8.7	7.9	8.3	7.3	5.8	5.6	4.1	4.4	4.3	4.1	4.0	4.0	3.7		
Subsequent transplants	16.8	16.6	18.5	21.3	20.7	18.6	19.2	19.1	21.4	17.6	15.0	14.6	13.3	14.6	12.3	10.0	8.6	7.8	8.0	7.7	7.5	5.5	5.7	6.2		
All	10.2	9.7	13.5	13.2	11.7	11.6	11.5	12.1	13.4	11.0	10.6	9.6	8.7	9.1	7.9	6.4	6.0	4.7	4.9	4.8	4.6	4.2	4.2	4.0		
ADJUSTED																										
0-19	12.6	14.3	18.7	17.3	16.3	19.9	15.3	19.0	23.2	18.2	19.9	13.7	15.0	14.2	12.1	13.7	8.1	6.8	8.3	10.5	9.6	5.2	6.4	3.4		
20-44	16.8	15.6	18.2	17.9	15.9	14.6	15.3	16.3	17.6	14.8	14.4	11.2	11.3	11.9	9.6	8.3	7.7	6.7	5.6	6.3	6.1	5.3	5.35	5.04		
45-64	22.0	18.7	20.8	19.3	17.3	17.3	17.7	16.0	17.1	15.1	13.2	13.2	12.0	11.7	10.5	9.3	8.7	7.6	7.7	7.8	7.3	6.5	7.22	6.35		
65-74	0.0	12.0	0.0	23.0	9.2	0.0	13.9	23.6	20.0	16.0	14.4	12.8	14.0	11.3	10.9	13.4	11.4	10.4	8.5	10.0	10.0	11.0	8.03	7.33		
75+	.	.	.	0.0	0.0	0.0	.	0.0	32.0	16.8	13.6	0.0	6.4	30.2	12.5	5.8	6.6	14.0	13.7	11.8	5.5	13.4	8.75	5.8		
Male	19.1	17.5	21.2	19.5	17.7	15.3	16.7	17.0	18.3	15.7	14.1	12.3	12.1	11.6	9.7	9.3	8.3	6.5	6.7	6.5	6.4	6.7	6.39	5.67		
Female	17.8	16.8	18.3	19.2	16.6	18.7	17.1	17.6	18.3	15.4	15.4	12.7	12.1	12.9	11.3	9.4	8.6	8.8	7.2	8.8	8.0	5.7	6.51	5.74		
White	17.3	16.0	19.1	18.5	17.3	16.1	16.8	17.9	18.1	15.3	14.5	12.1	11.7	12.1	10.3	9.6	8.2	7.5	7.0	7.3	6.6	6.4	5.8	5.02		
Black	22.5	19.0	22.2	20.6	17.4	17.5	17.3	15.3	19.1	16.8	14.2	13.1	13.0	12.4	9.9	8.9	9.6	7.7	7.4	8.0	8.6	6.7	7.9	7.47		
Other race	16.3	27.7	22.4	29.5	9.2	15.9	12.2	15.3	13.8	9.1	14.8	10.7	10.1	8.5	11.5	7.1	5.0	5.1	3.5	5.3	4.9	4.7	6.86	4.85		
Diabetes	20.3	16.1	16.8	18.5	15.0	14.5	18.3	17.5	20.0	14.6	15.4	12.7	13.5	11.0	9.5	9.2	8.1	8.2	6.8	7.8	6.7	6.3	6.65	5.98		
Hypertension	14.0	14.9	19.6	15.7	14.1	14.2	14.2	13.4	14.0	14.3	11.4	10.4	10.4	10.7	8.7	8.7	6.8	6.5	5.4	6.3	7.3	6.4	6.47	5.15		
Glomerulonephritis	14.2	15.2	20.1	20.9	17.9	17.0	16.2	17.6	18.7	16.2	14.9	11.7	11.0	12.9	10.8	9.5	8.5	6.7	7.2	6.9	6.8	6.1	6.34	6.04		
Other cause	20.7	18.2	19.8	18.6	18.0	17.6	17.3	18.5	19.1	16.2	15.5	14.4	13.1	13.9	12.1	10.0	10.3	8.0	7.9	8.3	7.2	6.7	6.32	5.61		
First transplant	17.8	16.3	19.5	17.8	15.3	15.1	15.6	16.0	16.6	14.4	13.7	11.6	11.3	11.1	9.5	8.6	7.9	6.9	6.3	6.9	6.5	6.0	6.11	5.32		
Subsequent transplants	24.5	23.7	24.5	28.5	27.9	23.8	24.0	24.7	28.0	22.7	19.5	17.7	16.9	18.9	15.6	14.3	11.9	10.8	10.4	10.4	10.4	8.5	8.49	8.31		
All	18.7	17.3	20.1	19.4	17.3	16.5	16.9	17.3	18.3	15.6	14.6	12.5	12.1	12.1	10.3	9.4	8.5	7.4	6.9	7.4	7.0	6.4	6.44	5.7		

Table F.14

One-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants*by age, gender, race, ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
<1	16.67	0	0	10	16.67	27.27	14.29	33.33	33.33	20	50	50	50	50	0	0	0	0	0	0	0	0	0	0	0
1-4	25.0	25.0	31.3	22.8	25.5	43.3	32.7	26.8	33.3	21.3	21.0	18.2	11.1	0.0	0.0	25.0	13.0	6.3	0.0	5.9	25.0	0.0	14.3	0.0	
5-9	19.8	19.9	25.7	25.8	20.8	20.3	32.6	38.4	32.3	21.4	25.7	13.6	18.8	15.0	16.1	17.2	10.3	7.7	9.7	19.1	6.3	0.0	3.6	12.9	
10-14	26.7	21.7	28.4	34.6	29.8	15.2	22.1	26.8	29.3	26.9	27.9	15.2	16.2	16.7	9.8	27.6	4.0	7.0	6.3	6.5	2.9	14.3	6.1	5.7	
15-19	17.5	21.5	25.1	23.4	26.9	33.8	21.7	21.9	26.9	21.1	19.0	20.3	19.4	15.4	17.8	20.3	12.6	9.4	20.3	15.1	13.5	9.4	5.4	9.2	
20-29	26.6	26.2	23.8	25.5	23.9	20.8	23.3	20.6	22.9	17.2	17.8	15.8	15.8	14.3	13.8	10.5	11.7	9.1	9.0	9.5	10.1	6.7	7.7	8.4	
30-39	25.4	26.4	26.1	27.7	21.0	19.0	20.6	21.3	19.3	17.7	15.8	13.3	13.2	15.6	12.6	10.8	8.5	8.5	7.1	9.1	6.8	7.3	7.5	7.2	
40-49	24.9	21.8	24.6	25.8	22.5	19.5	20.8	21.3	21.0	15.9	15.6	14.4	11.8	12.5	11.5	9.1	9.4	7.4	6.4	6.3	7.9	6.1	7.6	5.7	
50-59	27.9	24.6	24.7	27.9	15.9	16.5	15.8	13.3	14.0	13.6	12.8	11.9	11.7	11.4	9.8	8.1	8.3	6.3	7.6	7.9	6.6	7.0	5.9	6.5	
60-64	42.0	32.5	26.1	16.0	13.7	14.9	14.3	16.1	13.0	10.9	11.0	9.0	10.0	9.0	9.5	8.4	8.6	5.4	8.7	7.7	7.0	6.0	6.7	8.0	
65-69	0.0	16.7	0.0	19.2	12.2	14.7	7.0	27.1	13.8	11.9	13.1	7.8	7.7	11.5	11.5	7.7	8.4	8.7	7.2	6.1	7.4	7.7	8.2	4.9	
70-79	0.0	100.0	.	0.0	25.0	0.0	10.0	0.0	17.5	6.6	17.8	11.1	8.9	12.7	8.5	11.1	10.6	4.3	9.1	10.3	5.2	8.6	7.2	6.5	
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	0.0	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	8.3
Male	26.1	24.6	25.9	27.2	21.0	18.7	19.8	19.5	19.3	15.4	15.0	13.0	12.5	12.1	11.0	10.1	8.9	6.7	7.9	7.8	6.9	6.8	7.3	6.5	
Female	24.4	24.6	23.4	25.1	21.8	21.1	20.6	20.4	19.0	16.9	15.8	13.8	12.6	14.5	12.5	9.2	9.4	8.4	7.3	8.3	8.2	6.9	6.8	6.7	
White	22.8	22.3	22.9	24.1	20.1	18.5	18.7	19.6	18.3	14.7	14.4	12.6	11.7	12.4	10.9	9.5	8.5	6.9	7.0	7.1	6.3	6.3	6.1	5.5	
Black	34.4	33.1	32.2	33.4	26.0	23.6	24.8	20.8	23.2	21.5	18.6	16.2	15.2	15.2	13.4	10.8	10.7	9.2	9.6	10.8	10.1	8.3	9.2	9.0	
Other race	32.5	27.6	22.8	32.7	13.7	12.6	13.8	18.3	11.3	6.0	13.6	8.3	10.1	10.3	11.1	7.5	9.2	4.0	4.9	3.6	5.6	4.8	6.2	6.0	
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9.0	6.1	4.4	5.9	5.4	4.0	4.6	5.5
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	9.1	7.5	8.1	8.2	7.7	7.3	7.5	6.8
Diabetes	24.5	19.5	20.3	25.8	17.9	16.0	17.8	17.3	17.8	12.7	14.1	11.8	11.0	9.9	8.8	6.7	6.7	6.9	6.1	5.7	6.6	5.1	6.0	5.7	
Hypertension	29.5	28.3	29.7	26.4	21.2	18.9	21.4	20.2	18.9	17.1	16.0	13.4	12.5	12.5	12.2	9.7	9.1	8.0	8.8	8.0	7.9	7.8	8.6	6.9	
Glomerulonephritis	26.5	27.7	27.7	27.5	22.7	20.9	20.4	21.3	19.2	17.5	15.6	13.5	12.6	14.8	13.2	11.6	10.0	7.2	8.2	10.0	8.3	7.5	7.6	7.7	
Other cause	23.8	22.9	22.5	25.9	22.0	21.0	20.7	19.9	20.4	16.5	15.6	14.5	13.9	15.1	12.4	11.2	10.9	7.6	7.7	8.3	7.1	7.5	6.6	6.5	
First transplant	24.3	23.4	24.0	25.0	19.3	17.4	18.6	18.6	17.5	14.5	14.3	12.4	11.8	12.2	10.7	9.0	8.7	6.8	6.9	7.2	6.9	6.3	6.7	6.0	
Subsequent transplants	34.3	33.1	32.1	35.9	31.7	29.7	27.8	27.0	28.7	24.5	20.8	18.2	16.7	18.4	17.4	14.3	11.7	11.2	11.9	12.7	10.8	10.3	9.2	11.2	
All	25.5	24.6	25.0	26.4	21.3	19.6	20.1	19.8	19.2	16.0	15.4	13.3	12.5	13.0	11.6	9.7	9.1	7.4	7.6	8.0	7.4	6.9	7.1	6.6	
ADJUSTED																									
0-19	29.4	29.6	30.2	33.2	31.8	33.6	28.2	30.2	32.6	28.5	27.6	20.5	19.6	18.9	17.6	22.1	11.8	9.8	14.9	16.0	12.8	9.0	6.9	11.0	
20-44	36.4	35.3	32.9	34.9	28.8	24.2	27.0	26.5	25.5	21.4	20.5	16.9	17.1	17.6	15.2	13.1	12.4	10.9	9.6	11.0	9.8	9.1	9.61	9.17	
45-64	44.9	41.7	39.5	38.1	31.9	30.0	29.3	28.0	25.5	23.0	21.4	19.3	18.7	17.7	16.7	15.3	14.4	12.9	13.2	13.6	13.5	12.1	12.06	11.46	
65-74	21.5	46.8	0.0	45.2	49.2	34.7	27.7	40.4	32.8	27.0	25.7	21.3	18.0	23.7	21.4	20.7	18.7	19.1	18.0	17.7	17.6	19.0	16.45	13.2	
75+	.	.	.	0.0	0.0	0.0	.	0.0	32.0	16.8	27.2	0.0	19.0	57.8	31.3	23.2	19.5	24.4	22.8	23.6	13.7	23.4	19.58	15.51	
Male	40.2	38.5	37.7	37.6	31.5	27.4	29.3	28.6	27.4	22.9	21.7	18.5	18.3	17.5	16.4	15.4	13.5	11.8	12.3	12.1	12.0	11.66	10.71		
Female	38.6	38.1	33.8	37.2	31.7	29.4	28.8	28.7	26.0	23.6	22.3	18.8	18.2	19.9	16.9	14.3	14.2	13.5	11.8	14.1	12.7	10.6	10.73	10.21	
White	37.4	35.5	34.6	35.8	30.5	27.4	28.1	28.8	26.1	22.2	21.2	17.9	17.6	18.0	16.1	15.0	13.1	12.1	11.8	12.0	10.9	10.9	10.13	9.61	
Black	44.7	45.1	39.7	41.3	34.4	29.9	32.2	28.0	29.5	26.6	23.1	20.8	20.4	19.4	18.0	15.3	15.3	14.3	13.9	15.9	15.9	13.3	14.14	13.2	
Other race	47.1	47.5	42.0	44.0	25.9	25.5	26.2	28.0	21.1	13.0	22.5	13.5	14.0	15.9	15.4	11.7	14.9	7.8	7.4	8.8	10.4	9.7	10.96	8.44	
Diabetes	44.5	38.6	36.9	42.6	32.4	26.8	31.6	29.9	29.0	21.6	23.6	20.0	19.9	18.4	16.3	14.6	14.0	13.9	12.7	12.9	13.1	11.4	12.09	11.15	
Hypertension	33.8	33.5	33.7	31.6	27.3	24.8	25.4	25.7	22.3	21.3	19.7	16.2	16.1	15.7	15.1	13.7	11.3	12.2	12.0	12.2	13.0	12.3	11.84	10.49	
Glomerulonephritis	33.8	36.7	35.0	34.9	29.6	26.8	27.9	27.8	25.9	23.2	20.9	17.8	17.2	18.4	16.7	15.5	14.1	11.0	11.5	13.1	11.1	10.3	10.57	10.74	
Other cause	40.7	38.0	35.3	37.6	33.1	30.3	29.7	29.1	28.3	25.0	22.6	19.8	19.4	21.1	18.2	16.2	15.5	12.5	12.1	13.1	11.6	11.8	10.58	9.76	
First transplant	38.7	37.2	35.3	35.7	29.6	26.0	28.0	27.5	25.1	21.7	20.8	17.7	17.5	17.6	15.7	14.0	13.2	11.9	11.4	12.2	11.5	10.8	10.84	9.76	
Subsequent transplants	46.3	45.8	42.6	48.0	42.3	39.0	35.9	35.1	36.9	32.1	28.2	24.2	22.7	23.7	22.1	21.1	17.3	15.8	16.5	17.0	16.9	15.4	13.93	15.78	
All	39.7	38.4	36.3	37.5	31.6	28.1	29.2	28.7	26.9	23.2	21.9	18.6	18.3	18.4	16.6	15.0	13.8	12.5	12.1	12.9	12.2	11.4	11.29	10.53	

Table F.15

Two-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	58.3	0.0	0.0	21.3	16.7	27.3	14.3	33.3	33.3	20.0	50.0	50.0	50.0	50.0	0.0	.	0.0	66.7	0.0	0.0	0.0	0.0	.
1-4	50.0	25.0	43.8	27.7	25.5	43.3	32.7	32.4	33.3	21.3	28.2	28.4	11.1	0.0	0.0	25.0	19.6	6.3	0.0	5.9	33.3	0.0	14.3
5-9	28.7	32.1	34.3	29.2	29.2	27.5	37.8	38.4	32.3	21.4	30.3	22.7	18.8	15.0	16.1	24.3	13.9	11.5	12.9	19.1	12.5	0.0	10.7
10-14	37.2	33.5	33.3	44.1	40.4	27.0	36.9	33.4	38.6	33.4	35.9	21.2	27.0	20.1	15.7	37.4	12.0	10.5	12.6	8.7	5.9	22.9	10.2
15-19	25.9	30.9	38.7	26.8	34.5	40.3	28.8	31.3	34.2	32.3	28.2	30.1	29.7	24.0	26.2	27.7	23.2	20.4	27.8	21.9	29.1	20.0	16.3
20-29	33.4	33.8	31.1	32.8	30.0	28.8	30.4	29.2	31.3	23.7	24.4	20.7	21.2	19.5	19.1	16.1	17.5	14.0	15.1	16.3	17.1	11.5	13.0
30-39	32.8	34.1	34.4	34.4	28.3	26.5	27.8	28.5	25.4	23.9	21.0	17.2	17.4	20.4	16.2	14.0	12.3	13.1	10.2	12.0	12.1	11.2	11.2
40-49	34.6	28.1	31.8	32.8	28.6	25.6	27.3	26.7	25.6	20.7	19.7	17.7	15.7	15.7	16.0	15.2	11.9	13.5	11.4	9.8	9.9	11.7	9.5
50-59	36.7	31.7	31.0	34.7	21.7	19.6	20.8	17.8	17.9	17.3	15.8	14.8	15.0	14.5	12.4	10.3	10.6	9.1	11.1	10.3	9.9	9.9	9.8
60-64	46.4	40.7	31.1	18.1	21.0	20.9	18.5	18.9	15.7	14.9	13.6	10.7	12.3	10.8	12.2	10.9	10.9	9.0	11.2	9.6	8.4	8.7	10.0
65-69	16.7	33.3	0.0	27.3	12.2	19.5	9.9	27.1	18.9	16.1	13.1	9.8	10.6	13.2	13.5	9.3	9.4	12.2	8.0	9.8	8.7	10.5	11.2
70-79	0.0	100.0	.	50.0	25.0	0.0	10.0	0.0	17.5	14.5	17.8	13.1	8.9	16.9	9.6	13.9	12.3	6.0	11.9	14.4	8.2	9.1	9.5
80+	.	.	.	.	0.0	.	.	.	.	.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	37.5
Male	33.7	32.4	33.5	34.2	27.5	25.0	26.3	26.0	25.1	20.6	19.9	16.5	17.2	16.1	14.3	13.2	12.6	10.8	11.0	11.0	10.7	9.8	11.1
Female	33.6	31.8	31.2	31.4	28.6	28.0	27.2	26.2	23.9	22.3	20.0	17.7	15.6	18.1	16.5	12.5	12.9	12.0	11.3	12.0	12.8	10.8	10.2
White	30.3	29.1	29.7	30.2	25.9	23.4	23.8	24.1	22.1	18.7	17.9	15.3	14.7	15.3	13.5	11.7	11.0	10.1	9.4	9.3	9.8	8.7	9.0
Black	45.8	43.0	42.8	42.6	35.5	34.7	35.8	32.4	33.4	31.1	25.9	22.8	22.4	22.4	19.6	16.6	17.1	14.7	15.3	16.9	15.6	13.7	14.8
Other race	38.9	40.9	32.0	36.8	19.1	21.6	18.1	23.4	16.0	11.7	18.7	11.0	13.6	11.9	14.4	9.4	11.9	7.4	8.8	6.1	9.0	7.9	9.0
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	11.7	8.8	7.1	8.1	8.4	7.7	7.2
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12.8	11.6	11.6	11.8	12.0	10.6	11.3
Diabetes	29.9	26.0	27.0	32.0	24.5	20.2	23.6	22.8	21.7	16.9	18.3	14.3	13.8	13.5	10.9	9.1	9.1	10.2	8.7	8.0	10.0	7.7	8.8
Hypertension	40.3	34.5	39.3	34.7	30.8	30.3	30.7	28.9	26.1	25.1	21.9	18.3	17.9	18.1	17.2	14.2	14.2	12.4	13.1	13.0	11.8	11.7	13.8
Glomerulonephritis	33.9	35.3	35.8	34.9	29.1	27.0	27.1	27.2	24.8	23.3	20.6	17.5	17.3	18.2	17.5	14.8	14.6	12.0	12.5	14.0	13.2	11.4	11.5
Other cause	32.7	31.4	29.5	31.6	27.4	26.9	26.0	25.5	25.6	20.6	19.2	17.8	17.2	18.3	15.7	14.1	13.6	10.8	10.6	11.0	11.4	10.8	9.9
First transplant	32.3	31.0	31.6	31.4	25.8	23.5	24.8	24.9	22.8	20.0	18.5	15.9	15.7	16.1	14.2	12.0	12.2	10.6	10.2	10.5	10.6	9.5	10.4
Subsequent transplants	44.4	41.1	40.7	44.5	39.1	38.3	36.2	32.6	34.6	28.7	26.9	23.1	21.2	22.4	21.3	18.8	16.1	15.4	16.3	16.5	16.9	14.7	13.0
All	33.7	32.2	32.7	33.2	27.9	26.1	26.7	26.0	24.6	21.3	19.9	17.0	16.6	16.9	15.2	12.9	12.7	11.3	11.1	11.4	11.5	10.2	10.7
ADJUSTED																							
0-19	40.9	40.9	41.7	40.4	40.5	42.1	37.8	38.0	39.1	36.5	35.7	30.2	29.3	26.3	24.5	31.5	22.0	18.9	21.1	20.5	25.0	18.0	16.2
20-44	46.0	43.7	43.0	43.9	38.2	33.5	35.5	35.4	32.7	28.5	26.7	22.2	23.1	23.0	20.6	17.9	17.9	16.4	14.1	16.5	16.2	14.1	14.12
45-64	55.9	50.7	48.3	48.5	40.4	37.5	37.7	35.7	31.7	29.3	26.5	24.1	24.4	23.7	22.4	19.8	19.9	18.1	18.6	18.0	18.6	18.5	18
65-74	51.9	58.3	0.0	60.7	57.5	47.1	37.8	44.9	38.4	33.5	29.6	27.5	24.4	30.4	28.8	28.1	24.0	26.3	24.5	26.0	23.2	24.4	23.92
75+	.	.	.	0.0	100.0	0.0	.	0.0	47.1	16.8	26.6	22.1	25.2	57.3	31.2	34.3	32.3	27.3	26.8	26.3	32.3	31.1	24.69
Male	50.2	47.7	47.2	47.7	41.4	36.4	38.5	37.8	34.5	30.0	28.0	24.1	24.9	23.6	22.0	20.6	19.1	17.7	17.3	17.2	17.4	17.6	17.46
Female	49.9	47.1	45.0	45.6	40.4	38.2	37.0	36.2	32.4	30.3	27.7	24.1	23.4	25.3	22.8	19.2	20.1	18.5	17.2	19.5	19.1	16.5	15.84
White	47.4	44.1	43.8	44.7	39.2	34.6	35.9	35.7	31.4	27.8	26.3	22.4	22.4	22.8	20.8	19.1	17.8	17.0	15.8	16.0	15.7	16.0	14.98
Black	57.0	55.5	52.8	52.9	46.3	43.6	44.2	41.4	40.9	37.7	31.6	28.8	29.6	28.7	26.2	23.1	23.7	21.4	21.5	24.0	23.7	20.9	21.3
Other race	59.7	58.5	52.9	53.1	36.0	38.5	33.6	36.0	27.3	19.8	28.9	17.7	20.0	18.4	20.9	16.0	17.8	13.9	14.2	13.2	17.0	14.3	16.09
Diabetes	54.3	47.4	49.0	52.1	44.7	35.4	40.2	39.5	35.0	28.7	30.2	25.7	26.7	25.1	21.7	19.8	19.9	20.1	18.6	18.4	19.0	17.9	18
Hypertension	44.9	40.3	44.4	41.8	37.3	37.3	36.0	36.0	30.4	30.1	26.1	22.6	22.9	23.3	21.3	19.9	17.7	17.5	17.5	18.3	19.0	17.8	18.16
Glomerulonephritis	42.6	45.6	44.2	44.1	37.6	34.9	36.7	35.0	32.6	29.7	26.8	22.8	23.3	22.8	22.5	20.2	20.4	16.9	16.6	18.5	17.1	15.7	15.55
Other cause	52.0	47.9	44.9	46.7	41.7	38.2	37.3	36.9	35.0	30.9	27.5	24.5	24.0	25.9	23.7	20.4	19.6	17.2	16.2	17.0	17.0	17.3	15.47
First transplant	49.1	46.4	45.3	45.0	39.1	34.6	36.6	36.3	32.0	28.9	26.6	22.9	23.5	23.4	21.3	18.9	18.9	17.3	16.5	17.3	17.0	16.4	16.29
Subsequent transplants	57.2	54.5	53.5	58.8	51.8	49.7	45.7	42.2	43.6	37.5	35.2	31.1	29.4	29.7	28.0	27.3	22.9	22.2	22.1	22.2	24.1	22.4	19.7
All	59.1	56.4	55.4	60.7	53.7	51.5	47.5	43.9	45.3	39.2	36.8	32.6	30.8	31.1	29.3	28.6	24.0	23.3	23.2	23.3	25.3	23.5	20.69

Table F.16

Three-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	58.33	0	0	21.25	16.67	27.27	31.43	33.33	33.33	20	100	50	50	50	0	.	0	66.67	0	33.33	100	0
1-4	50.0	37.5	43.8	32.8	42.1	55.9	32.7	32.4	33.3	21.3	28.2	28.4	11.1	0.0	33.3	25.0	19.6	6.3	0.0	18.4	33.3	12.5
5-9	33.2	38.2	42.9	32.6	42.5	31.1	48.1	41.7	32.3	25.0	30.3	22.7	25.0	25.0	19.4	24.3	17.5	11.5	12.9	19.1	12.5	19.2
10-14	45.9	45.3	43.6	50.1	45.7	37.4	47.6	36.8	49.8	37.7	47.9	21.2	29.7	31.0	23.5	44.0	22.0	15.8	19.0	13.0	17.7	25.7
15-19	34.6	35.1	42.5	35.2	39.9	45.4	36.8	45.5	44.4	37.6	38.3	34.6	38.0	33.6	31.8	39.3	37.3	32.7	39.8	30.5	37.6	24.8
20-29	37.2	41.3	35.9	36.8	36.9	36.5	36.5	36.0	36.1	30.4	30.2	26.0	26.8	26.0	24.9	22.9	22.9	18.7	21.8	22.1	21.3	16.6
30-39	38.5	38.7	39.1	39.3	34.0	33.8	33.9	34.1	29.8	29.0	25.5	21.6	21.3	25.1	20.4	18.5	16.9	16.9	15.2	15.9	17.9	14.9
40-49	39.2	35.7	36.3	37.0	32.2	29.8	33.4	32.8	29.9	24.5	23.3	22.6	20.2	19.9	18.3	16.1	16.8	16.0	14.0	14.0	15.7	12.0
50-59	40.0	40.1	36.6	39.2	25.5	24.2	25.5	22.0	20.7	21.1	18.8	17.9	17.6	16.5	15.8	13.3	13.0	12.4	14.0	13.0	12.4	12.7
60-64	50.9	40.7	39.1	28.0	27.7	20.9	20.7	21.9	17.8	17.8	16.0	12.4	13.8	13.7	14.6	15.3	13.3	11.7	13.1	10.7	11.7	11.1
65-69	16.7	55.6	0.0	27.3	12.2	24.5	12.9	27.1	11.5	16.9	18.3	11.5	13.1	14.6	14.4	10.9	10.1	16.3	10.9	11.7	10.9	13.8
70-79	0.0	100.0	.	50.0	25.0	0.0	10.0	0.0	17.5	14.5	20.3	13.1	13.4	21.6	12.0	16.9	16.9	7.0	13.4	15.9	9.4	11.8
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	0.0	.	0.0	0.0	33.3	0.0	0.0	0.0	20.0	0.0
Male	38.1	39.0	38.4	38.5	33.1	31.2	32.4	31.8	29.1	25.4	23.7	20.8	21.2	20.5	18.1	17.5	16.2	14.8	14.8	14.2	14.5	13.2
Female	39.4	38.6	36.4	36.8	33.4	33.6	32.9	31.6	28.3	26.5	24.8	21.5	19.4	21.6	20.3	16.9	16.7	15.9	15.7	16.0	16.8	13.8
White	34.8	35.1	34.2	34.7	30.8	28.6	28.1	28.8	25.4	22.5	21.2	18.4	17.7	18.5	16.2	15.1	13.8	13.1	12.8	12.1	12.8	11.2
Black	52.2	52.6	49.1	48.8	42.3	42.8	46.5	40.9	40.2	37.7	33.3	30.0	28.8	29.0	26.0	23.7	23.2	21.0	20.9	22.1	21.8	18.5
Other race	44.0	44.7	41.2	36.8	22.0	26.9	22.5	30.8	20.3	17.4	21.0	14.3	17.5	14.8	17.9	12.4	15.0	11.3	12.7	9.6	10.6	10.5
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	14.9	11.5	10.5	11.5	12.3	10.6
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	16.6	15.7	15.8	15.4	15.8	13.9
Diabetes	33.2	27.9	31.8	34.2	29.0	25.6	28.7	28.5	24.1	20.8	21.6	17.2	18.4	16.6	14.2	12.5	11.9	12.9	11.7	10.9	13.0	10.3
Hypertension	45.4	42.4	43.5	41.8	37.8	37.3	38.8	36.1	32.6	30.8	28.3	24.3	22.6	23.2	21.4	21.0	19.1	17.9	17.5	17.5	17.5	15.8
Glomerulonephritis	39.0	41.6	40.8	40.5	34.1	33.4	32.3	32.6	29.3	28.1	25.0	21.6	21.3	23.0	22.1	19.7	18.6	16.4	17.3	17.7	17.7	14.4
Other cause	37.8	39.4	34.9	35.6	32.5	32.2	31.9	30.6	29.1	24.7	22.3	21.5	19.9	21.8	18.5	17.1	16.9	14.5	14.8	14.3	14.1	14.1
First transplant	37.0	37.7	36.5	35.9	30.9	29.3	30.6	30.8	27.0	24.6	22.7	19.8	19.8	20.1	18.0	16.2	15.7	14.5	14.0	13.9	14.2	12.6
Subsequent transplants	50.7	47.2	46.8	51.0	45.4	45.1	42.6	37.4	38.8	32.8	31.5	28.1	24.4	26.6	24.7	24.4	20.8	19.8	21.9	20.8	22.2	18.7
All	38.6	38.9	37.7	37.9	33.2	32.0	32.5	31.7	28.8	25.8	24.1	21.0	20.5	20.9	18.9	17.3	16.4	15.3	15.2	14.9	15.4	13.4
ADJUSTED																						
0-19	49.1	48.7	47.7	47.1	47.4	48.8	48.6	46.5	47.4	41.3	44.7	33.8	35.4	35.8	30.6	39.6	31.8	26.4	29.1	28.2	32.9	24.7
20-44	52.2	50.7	49.8	50.2	45.8	41.9	42.9	42.6	38.4	34.7	32.0	27.9	28.2	29.0	25.5	23.7	23.0	21.8	20.2	21.5	21.9	18.9
45-64	60.8	59.3	55.8	56.1	46.8	44.5	45.6	42.9	37.0	35.0	32.2	30.3	29.9	29.1	27.7	25.5	24.5	24.0	24.1	23.0	23.8	23.8
65-74	61.7	79.9	0.0	60.7	61.5	53.3	44.3	49.5	45.2	41.3	37.3	34.9	31.8	37.2	34.2	34.6	30.2	34.8	31.1	34.2	29.0	30.9
75+	.	.	.	0.0	100.0	0.0	.	0.0	46.9	35.2	38.6	21.1	24.5	57.7	43.1	45.0	38.4	36.0	32.3	28.1	34.1	38.2
Male	55.8	55.0	54.8	54.5	49.4	44.9	46.8	45.4	40.4	36.4	33.3	30.5	30.5	29.8	27.3	26.5	23.9	23.8	23.1	22.0	22.7	23.0
Female	57.2	55.4	51.1	52.3	46.7	45.5	44.2	43.1	38.1	36.1	34.1	29.3	28.6	30.7	28.0	25.1	25.6	24.3	23.2	25.7	24.8	21.3
White	53.5	51.6	50.6	51.1	46.3	42.0	42.4	42.5	36.5	33.2	31.3	27.4	27.2	28.0	25.1	24.0	22.0	22.1	21.2	20.8	20.4	20.5
Black	63.3	64.7	60.9	61.4	54.2	53.4	56.3	50.3	48.6	45.9	39.8	37.6	37.0	36.7	34.0	31.9	30.9	29.6	28.3	30.4	31.2	27.8
Other race	66.7	61.4	60.3	54.2	42.1	46.7	37.7	43.0	33.3	25.3	32.5	24.1	24.7	23.3	26.1	19.8	23.1	19.0	20.6	19.4	20.3	17.9
Diabetes	58.8	51.3	57.9	57.9	52.5	44.8	48.1	47.9	40.1	35.3	35.7	30.9	34.0	31.1	27.3	25.5	25.4	25.9	24.8	24.2	24.4	23.7
Hypertension	50.9	48.8	49.2	51.1	44.2	44.5	45.0	44.0	38.0	37.6	33.1	30.1	28.8	29.4	26.6	27.7	23.6	23.8	22.9	24.4	25.4	23.6
Glomerulonephritis	49.2	52.6	51.2	50.9	44.1	43.0	43.8	42.1	38.2	35.4	32.4	28.6	28.1	29.1	28.5	26.0	24.8	23.0	23.1	23.4	22.7	19.9
Other cause	58.3	56.9	51.9	52.5	49.4	45.7	45.1	43.2	40.1	36.2	32.6	30.2	27.9	31.2	27.8	25.1	24.4	22.9	21.3	21.6	21.3	22.2
First transplant	64.2	62.8	57.8	58.3	55.2	51.3	50.7	48.7	45.4	41.3	37.3	34.6	32.2	35.8	32.1	29.0	28.3	26.5	24.7	25.1	24.8	25.8
Subsequent transplants	65.0	61.0	60.7	66.5	58.8	57.6	53.9	47.7	50.1	43.1	41.0	38.4	33.3	36.3	32.2	33.9	28.6	28.9	29.0	28.1	31.1	28.3
All	66.8	62.9	62.6	68.4	60.7	59.4	55.8	49.5	51.9	44.8	42.7	40.0	34.8	37.8	33.6	35.4	29.9	30.2	30.3	29.4	32.5	29.6

Table F.17

Five-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<1	58.33	0	0	21.25	16.67	37.66	48.57	33.33	33.33	40	100	50	50	50	0		33.33	66.67	0	33.33
1-4	50.0	37.5	56.3	43.2	42.1	55.9	46.2	32.4	33.3	21.3	28.2	38.6	11.1	0.0	33.3	25.0	26.3	6.3	9.1	18.4
5-9	46.5	57.0	60.0	39.5	42.5	38.4	53.3	48.2	38.7	32.1	39.6	50.0	31.3	30.0	25.8	38.7	21.1	15.4	26.0	19.1
10-14	58.1	54.6	59.5	56.1	54.7	52.0	54.5	42.0	55.4	46.9	55.9	24.4	43.7	50.2	31.4	47.3	36.3	35.1	31.8	23.9
15-19	45.8	43.9	52.4	42.3	47.7	59.7	54.1	56.4	56.3	49.0	52.0	45.6	51.4	45.7	49.6	51.0	47.0	51.9	49.6	46.0
20-29	45.3	49.1	43.0	43.1	44.3	48.5	47.1	46.1	46.1	39.8	37.6	35.0	37.5	35.5	38.6	34.3	33.9	30.5	33.7	32.3
30-39	49.1	44.2	44.5	46.2	43.6	43.1	41.4	43.7	38.6	36.6	35.2	31.5	29.0	32.1	28.7	27.7	26.6	26.5	25.2	24.7
40-49	46.6	42.6	42.5	45.1	41.0	40.2	42.2	41.5	36.0	30.2	30.6	29.3	28.5	26.2	25.9	23.9	24.6	23.1	22.0	20.7
50-59	45.9	48.0	41.2	41.5	33.7	31.0	32.5	29.2	26.1	28.0	24.7	24.0	22.0	23.3	22.5	20.0	20.4	17.8	20.6	18.6
60-64	62.1	45.7	42.2	30.7	35.9	27.9	31.3	28.8	22.1	20.5	21.0	18.7	17.1	16.7	20.2	21.9	19.6	16.8	18.4	18.0
65-69	16.7	55.6	0.0	39.4	20.9	24.5	16.1	35.3	23.6	20.7	23.8	16.4	17.1	21.3	18.6	16.4	15.2	23.1	15.0	16.7
70-79	0.0	100.0		100.0	25.0	0.0	28.0	8.3	17.5	14.5	25.5	21.9	16.9	27.2	16.1	24.6	20.1	12.2	17.7	19.8
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	0.0	.	0.0	0.0	33.3	0.0	0.0	0.0
Male	47.5	45.9	45.2	45.4	41.7	40.3	41.0	40.5	35.9	32.6	31.5	28.9	28.4	27.7	26.4	25.1	24.3	23.1	23.3	21.7
Female	47.1	46.3	43.0	42.5	41.7	44.9	42.2	40.8	36.3	33.4	32.2	29.1	27.1	28.2	28.5	26.5	25.2	23.2	23.4	23.0
White	43.3	41.5	40.6	40.3	37.9	37.7	35.7	36.2	31.9	28.0	27.8	24.7	23.9	24.5	23.6	22.0	20.9	19.6	19.2	18.1
Black	62.7	62.9	56.9	58.4	55.8	55.7	59.0	54.9	50.1	49.6	44.5	42.5	40.3	38.9	36.8	35.9	34.8	32.0	33.0	32.8
Other race	46.6	52.4	46.7	41.2	26.6	35.6	33.6	37.0	27.1	25.5	24.9	21.2	22.4	20.1	24.6	20.1	20.7	18.1	20.8	14.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	21.1	19.3	17.9	18.9
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	25.0	23.5	24.0	22.6
Diabetes	39.5	33.2	37.3	38.9	34.4	34.1	34.9	36.9	31.5	28.2	29.3	25.2	25.1	22.7	22.6	19.7	19.7	19.8	19.6	18.5
Hypertension	58.6	52.7	51.4	51.0	49.6	48.8	50.2	47.5	41.2	40.4	37.0	34.2	32.3	32.6	30.7	31.5	30.1	27.4	27.7	26.6
Glomerulonephritis	47.8	49.5	48.2	46.1	42.0	42.4	41.5	41.9	37.0	34.8	33.4	30.4	29.3	30.8	31.3	28.5	26.8	24.6	25.4	25.8
Other cause	45.8	45.5	40.8	42.2	41.6	43.1	40.9	38.0	35.2	30.4	28.5	26.9	25.5	26.8	25.0	24.2	23.4	21.5	21.6	19.2
First transplant	45.6	44.5	43.2	42.2	39.4	39.0	39.3	39.2	34.0	31.5	30.1	27.4	27.2	26.8	26.2	24.7	23.7	22.4	22.0	21.2
Subsequent transplants	60.9	57.1	53.7	58.7	53.9	56.2	52.4	48.9	47.5	41.4	40.3	37.4	31.8	35.5	33.4	31.3	30.9	27.3	30.7	28.0
All	47.4	46.0	44.4	44.4	41.7	42.0	41.5	40.6	36.1	32.9	31.8	28.9	27.9	27.9	27.2	25.6	24.7	23.1	23.3	22.2
ADJUSTED																				
0-19	49.1	48.7	47.7	47.1	47.4	48.8	48.6	46.5	47.4	41.3	44.7	33.8	35.4	35.8	30.6	39.6	31.8	26.4	29.1	28.2
20-44	52.2	50.7	49.8	50.2	45.8	41.9	42.9	42.6	38.4	34.7	32.0	27.9	28.2	29.0	25.5	23.7	23.0	21.8	20.2	21.5
45-64	60.8	59.3	55.8	56.1	46.8	44.5	45.6	42.9	37.0	35.0	32.2	30.3	29.9	29.1	27.7	25.5	24.5	24.0	24.1	23.0
65-74	61.7	79.9	0.0	60.7	61.5	53.3	44.3	49.5	45.2	41.3	37.3	34.9	31.8	37.2	34.2	34.6	30.2	34.8	31.1	34.2
75+	.	.	.	0.0	100.0	0.0	.	0.0	46.9	35.2	38.6	21.1	24.5	57.7	43.1	45.0	38.4	36.0	32.3	28.1
Male	55.8	55.0	54.8	54.5	49.4	44.9	46.8	45.4	40.4	36.4	33.3	30.5	30.5	29.8	27.3	26.5	23.9	23.8	23.1	22.0
Female	57.2	55.4	51.1	52.3	46.7	45.5	44.2	43.1	38.1	36.1	34.1	29.3	28.6	30.7	28.0	25.1	25.6	24.3	23.2	25.7
White	53.5	51.6	50.6	51.1	46.3	42.0	42.4	42.5	36.5	33.2	31.3	27.4	27.2	28.0	25.1	24.0	22.0	22.1	21.2	20.8
Black	63.3	64.7	60.9	61.4	54.2	53.4	56.3	50.3	48.6	45.9	39.8	37.6	37.0	36.7	34.0	31.9	30.9	29.6	28.3	30.4
Other race	66.7	61.4	60.3	54.2	42.1	46.7	37.7	43.0	33.3	25.3	32.5	24.1	24.7	23.3	26.1	19.8	23.1	19.0	20.6	19.4
Diabetes	58.8	51.3	57.9	57.9	52.5	44.8	48.1	47.9	40.1	35.3	35.7	30.9	34.0	31.1	27.3	25.5	25.4	25.9	24.8	24.2
Hypertension	50.9	48.8	49.2	51.1	44.2	44.5	45.0	44.0	38.0	37.6	33.1	30.1	28.8	29.4	26.6	27.7	23.6	23.8	22.9	24.4
Glomerulonephritis	49.2	52.6	51.2	50.9	44.1	43.0	43.8	42.1	38.2	35.4	32.4	28.6	28.1	29.1	28.5	26.0	24.8	23.0	23.1	23.4
Other cause	58.3	56.9	51.9	52.5	49.4	45.7	45.1	43.2	40.1	36.2	32.6	30.2	27.9	31.2	27.8	25.1	24.4	22.9	21.3	21.6
First transplant	64.2	62.8	57.8	58.3	55.2	51.3	50.7	48.7	45.4	41.3	37.3	34.6	32.2	35.8	32.1	29.0	28.3	26.5	24.7	25.1
Subsequent transplants	65.0	61.0	60.7	66.5	58.8	57.6	53.9	47.7	50.1	43.1	41.0	38.4	33.3	36.3	32.2	33.9	28.6	28.9	29.0	28.1
All	66.8	62.9	62.6	68.4	60.7	59.4	55.8	49.5	51.9	44.8	42.7	40.0	34.8	37.8	33.6	35.4	29.9	30.2	30.3	29.4

Table F.18

Ten-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<1	100	0	0	21.25	16.67	37.66	48.57	33.33	100	40	100	50	50	50	0
1-4	50.0	37.5	56.3	43.2	66.9	68.5	52.9	49.3	58.3	43.8	28.2	48.9	23.8	22.2	66.7
5-9	55.4	63.6	60.0	54.6	51.3	64.7	74.1	61.1	48.9	61.3	67.5	59.1	75.0	40.0	32.4
10-14	72.1	70.4	69.8	68.3	71.1	64.5	65.4	64.8	75.8	67.8	74.2	60.5	69.0	69.4	57.4
15-19	56.5	53.7	65.6	55.4	61.5	74.4	65.8	63.3	70.4	66.1	68.0	67.1	68.3	58.0	69.8
20-29	58.3	58.9	53.5	57.8	61.1	59.9	62.2	60.6	61.2	56.5	53.9	53.9	59.7	55.0	55.1
30-39	60.2	55.8	54.4	56.2	59.1	58.3	56.4	57.4	54.4	52.8	51.1	51.1	48.2	50.8	46.1
40-49	53.9	52.7	54.5	58.8	56.1	55.0	55.7	52.5	50.3	44.1	46.7	43.3	46.1	41.5	42.0
50-59	53.4	53.3	50.2	51.7	46.0	48.7	43.1	39.9	37.7	40.6	38.1	39.6	38.8	37.5	37.5
60-64	62.1	52.5	54.6	37.3	53.1	40.1	43.5	34.8	33.3	33.4	34.5	29.3	32.8	27.4	31.5
65-69	16.7	55.6	0.0	39.4	20.9	35.3	25.2	43.6	38.7	26.4	37.4	29.3	28.4	34.3	31.5
70-79	0.0	100.0	.	100.0	25.0	0.0	28.0	17.5	23.0	14.5	25.5	35.1	28.7	39.4	28.7
80+	.	.	.	.	0.0	.	.	.	.	.	.	0.0	0.0	.	0.0
Male	58.0	55.9	55.5	57.0	57.2	55.4	53.8	52.4	50.2	47.9	46.3	45.0	46.3	43.9	42.4
Female	57.6	56.3	53.7	55.4	57.0	58.9	58.1	54.2	51.6	48.2	48.8	47.1	47.0	45.0	45.1
White	53.6	50.8	50.3	51.7	52.7	51.6	48.8	47.8	46.3	42.0	42.0	41.2	41.2	40.2	37.9
Black	74.5	77.0	70.3	72.9	73.5	73.9	75.5	71.1	65.9	68.6	63.8	61.7	63.5	58.0	59.0
Other race	60.5	59.1	59.8	56.8	42.4	44.0	52.3	44.7	40.9	38.3	42.2	32.7	39.2	35.2	37.4
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	48.3	43.9	45.8	50.3	51.5	51.7	51.8	50.9	48.5	46.1	44.6	44.2	46.4	42.4	41.8
Hypertension	70.9	64.9	63.7	65.4	68.7	68.6	66.9	63.3	57.9	58.3	54.6	53.4	54.9	49.9	50.8
Glomerulonephritis	60.2	60.3	59.1	57.6	57.0	55.5	55.3	53.2	51.5	49.8	49.3	47.3	46.9	48.1	46.0
Other cause	54.2	53.9	50.6	54.1	54.9	55.0	52.1	49.0	47.5	42.0	42.4	40.8	40.9	38.8	37.0
First transplant	56.2	54.7	53.5	54.2	54.8	53.5	53.2	51.2	48.7	46.2	45.8	44.2	45.3	42.8	42.6
Subsequent transplants	71.7	66.0	64.6	71.2	69.4	71.8	66.7	63.6	61.8	58.0	55.1	54.9	53.6	54.8	48.9
All	57.9	56.1	54.8	56.5	57.1	56.7	55.4	53.1	50.8	48.0	47.3	45.9	46.6	44.3	43.5
ADJUSTED															
0-19	49.1	48.7	47.7	47.1	47.4	48.8	48.6	46.5	47.4	41.3	44.7	33.8	35.4	35.8	30.6
20-44	52.2	50.7	49.8	50.2	45.8	41.9	42.9	42.6	38.4	34.7	32.0	27.9	28.2	29.0	25.5
45-64	60.8	59.3	55.8	56.1	46.8	44.5	45.6	42.9	37.0	35.0	32.2	30.3	29.9	29.1	27.7
65-74	61.7	79.9	0.0	60.7	61.5	53.3	44.3	49.5	45.2	41.3	37.3	34.9	31.8	37.2	34.2
75+	.	.	.	0.0	100.0	0.0	.	0.0	46.9	35.2	38.6	21.1	24.5	57.7	43.1
Male	55.8	55.0	54.8	54.5	49.4	44.9	46.8	45.4	40.4	36.4	33.3	30.5	30.5	29.8	27.3
Female	57.2	55.4	51.1	52.3	46.7	45.5	44.2	43.1	38.1	36.1	34.1	29.3	28.6	30.7	28.0
White	53.5	51.6	50.6	51.1	46.3	42.0	42.4	42.5	36.5	33.2	31.3	27.4	27.2	28.0	25.1
Black	63.3	64.7	60.9	61.4	54.2	53.4	56.3	50.3	48.6	45.9	39.8	37.6	37.0	36.7	34.0
Other race	66.7	61.4	60.3	54.2	42.1	46.7	37.7	43.0	33.3	25.3	32.5	24.1	24.7	23.3	26.1
Diabetes	58.8	51.3	57.9	57.9	52.5	44.8	48.1	47.9	40.1	35.3	35.7	30.9	34.0	31.1	27.3
Hypertension	50.9	48.8	49.2	51.1	44.2	44.5	45.0	44.0	38.0	37.6	33.1	30.1	28.8	29.4	26.6
Glomerulonephritis	49.2	52.6	51.2	50.9	44.1	43.0	43.8	42.1	38.2	35.4	32.4	28.6	28.1	29.1	28.5
Other cause	58.3	56.9	51.9	52.5	49.4	45.7	45.1	43.2	40.1	36.2	32.6	30.2	27.9	31.2	27.8
First transplant	64.2	62.8	57.8	58.3	55.2	51.3	50.7	48.7	45.4	41.3	37.3	34.6	32.2	35.8	32.1
Subsequent transplants	65.0	61.0	60.7	66.5	58.8	57.6	53.9	47.7	50.1	43.1	41.0	38.4	33.3	36.3	32.2
All	66.8	62.9	62.6	68.4	60.7	59.4	55.8	49.5	51.9	44.8	42.7	40.0	34.8	37.8	33.6

Table F.19

90-day probability of graft failure necessitating dialysis or retransplantation: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	0.0	0.0	33.3	0.0	14.3	0.0	0.0	37.5	27.1	8.3	20.0	0.0	37.5	7.1	0.0	9.1	0.0	0.0	10.0	0.0	25.0	7.7	0.0	8.3
1-4	0.0	0.0	16.7	6.3	8.3	0.0	0.0	10.5	30.0	0.0	0.0	5.6	15.4	21.4	12.5	0.0	13.6	0.0	13.3	7.7	12.5	0.0	0.0	8.3
5-9	5.6	5.9	14.3	10.3	0.0	14.3	26.1	14.8	5.9	18.2	0.0	7.1	3.7	9.1	6.3	4.2	7.6	0.0	3.9	0.0	7.1	11.1	3.7	0.0
10-14	6.7	2.5	13.3	3.6	3.3	4.1	0.0	10.5	9.8	0.0	10.5	2.2	2.3	2.6	4.9	0.0	2.3	3.1	2.5	0.0	7.1	2.6	0.0	0.0
15-19	1.6	4.9	4.7	5.0	4.6	7.8	3.2	3.2	5.0	1.4	6.5	5.2	6.7	2.6	5.0	10.8	2.6	1.1	6.3	0.0	1.6	7.8	2.2	0.0
20-29	2.2	1.8	5.0	4.0	6.6	3.0	3.9	4.8	6.5	6.2	5.6	4.2	5.6	3.7	4.3	3.6	3.8	3.2	4.4	2.8	2.4	2.2	2.2	1.6
30-39	2.8	3.2	6.1	4.0	5.0	4.0	2.6	2.4	6.5	6.1	5.9	3.6	6.3	5.1	5.1	3.4	3.5	2.2	1.6	2.8	2.8	2.3	2.0	3.1
40-49	3.1	4.1	3.8	3.5	2.5	2.7	1.9	4.2	2.3	6.3	5.8	4.2	5.5	3.1	4.9	3.8	3.2	3.9	2.3	2.6	3.4	4.0	2.9	2.9
50-59	0.0	1.3	1.6	3.0	1.8	1.8	2.0	3.8	3.7	4.3	3.5	3.4	4.4	7.8	3.0	4.4	1.8	2.9	2.9	2.7	2.3	1.9	2.2	1.6
60-64	.	0.0	0.0	0.0	3.1	4.8	1.6	4.4	0.0	3.1	3.6	4.5	2.1	3.1	3.3	6.3	1.7	2.3	2.6	0.7	2.3	1.8	0.7	2.8
65-69	0.0	0.0	0.0	20.0	0.0	0.0	3.2	3.6	0.0	0.0	5.9	2.3	0.0	2.6	4.7	2.4	0.0	1.8	2.6	0.6	2.5	1.4	2.8	
70-79	.	.	.	0.0	0.0	0.0	14.3	0.0	.	.	0.0	0.0	0.0	14.3	0.0	9.5	4.6	3.5	0.0	0.0	1.2	1.1	2.0	2.3
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.0	.	0.0	0.0	0.0
Male	3.7	3.8	5.5	4.1	4.9	3.2	2.9	4.2	7.4	5.3	5.7	3.6	5.2	4.0	4.2	3.8	2.4	2.4	2.5	1.6	2.4	2.4	1.6	2.2
Female	1.2	1.6	5.1	3.9	3.6	3.9	2.9	4.2	3.3	5.9	5.2	4.5	6.0	5.6	4.7	4.7	4.0	3.1	3.2	3.4	3.1	3.2	2.7	2.6
White	2.5	2.5	5.0	4.2	4.2	3.3	2.9	4.3	6.0	5.3	5.6	3.8	5.5	4.5	4.4	3.9	3.0	2.8	2.8	2.7	2.5	2.7	2.1	2.4
Black	4.9	5.5	8.5	3.1	6.4	4.5	3.4	5.0	5.1	7.9	4.7	6.3	6.6	4.9	5.6	6.0	3.8	2.0	3.4	1.5	3.5	3.4	1.7	2.5
Other race	0.0	5.1	0.0	2.4	2.0	3.5	2.5	0.0	2.6	2.0	4.7	0.0	2.0	6.8	1.1	3.3	2.8	3.2	1.2	0.9	2.8	0.6	2.9	0.5
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.0	2.8	3.0	2.2	2.2	2.2	1.3	1.9
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.3	2.7	2.8	2.4	2.8	2.8	2.2	2.4
Diabetes	1.9	4.5	5.2	4.7	5.3	3.0	1.9	4.6	6.8	3.8	6.6	3.5	8.1	4.8	3.8	3.7	3.4	1.9	2.1	2.6	2.6	2.0	1.5	1.8
Hypertension	1.5	2.0	5.3	2.4	3.4	1.4	2.9	2.8	4.3	6.8	5.6	4.7	4.8	4.5	5.5	3.7	2.2	2.3	2.3	3.2	1.0	2.4	1.1	2.4
Glomerulonephritis	3.0	1.7	5.5	4.4	5.3	3.5	3.1	4.9	6.3	5.4	3.8	3.2	5.4	4.2	4.1	5.0	2.9	4.0	3.1	1.8	3.9	3.4	2.0	2.4
Other cause	2.8	3.7	5.3	3.8	3.4	4.7	3.4	4.0	4.9	6.5	6.4	4.9	4.2	5.2	4.5	3.9	3.8	2.1	3.4	2.2	2.7	2.9	3.0	2.7
First transplant	2.7	2.8	5.2	3.8	4.1	3.2	2.9	3.9	5.7	5.4	4.8	3.5	5.3	4.5	4.0	4.1	2.8	2.5	2.4	2.1	2.5	2.6	1.6	2.4
Subsequent transplants	2.2	5.1	8.5	6.5	6.8	6.2	2.9	7.0	6.9	7.6	12.9	8.9	7.6	7.0	8.0	4.8	6.2	4.8	6.1	4.2	4.1	3.7	5.2	1.7
All	2.7	2.9	5.4	4.0	4.4	3.5	2.9	4.2	5.8	5.5	5.5	4.0	5.5	4.7	4.4	4.2	3.1	2.7	2.8	2.4	2.7	2.7	2.1	2.3
ADJUSTED																								
0-19	12.6	14.3	18.7	17.3	16.3	19.9	15.3	19.0	23.2	18.2	19.9	13.7	15.0	14.2	12.1	13.7	8.1	6.8	8.3	10.5	9.6	5.2	6.4	3.4
20-44	16.8	15.6	18.2	17.9	15.9	14.6	15.3	16.3	17.6	14.8	14.4	11.2	11.3	11.9	9.6	8.3	7.7	6.7	5.6	6.3	6.1	5.3	5.35	5.04
45-64	22.0	18.7	20.8	19.3	17.3	17.3	17.7	16.0	17.1	15.1	13.2	13.2	12.0	11.7	10.5	9.3	8.7	7.6	7.7	7.8	7.3	6.5	7.22	6.35
65-74	0.0	12.0	0.0	23.0	9.2	0.0	13.9	23.6	20.0	16.0	14.4	12.8	14.0	11.3	10.9	13.4	11.4	10.4	8.5	10.0	10.0	11.0	8.03	7.33
75+	.	.	.	0.0	0.0	0.0	.	0.0	32.0	16.8	13.6	0.0	6.4	30.2	12.5	5.8	6.6	14.0	13.7	11.8	5.5	13.4	8.75	5.8
Male	19.1	17.5	21.2	19.5	17.7	15.3	16.7	17.0	18.3	15.7	14.1	12.3	12.1	11.6	9.7	9.3	8.3	6.5	6.7	6.5	6.4	6.7	6.39	5.67
Female	17.8	16.8	18.3	19.2	16.6	18.7	17.1	17.6	18.3	15.4	15.4	12.7	12.1	12.9	11.3	9.4	8.6	8.8	7.2	8.8	8.0	5.7	6.51	5.74
White	17.3	16.0	19.1	18.5	17.3	16.1	16.8	17.9	18.1	15.3	14.5	12.1	11.7	12.1	10.3	9.6	8.2	7.5	7.0	7.3	6.6	6.4	5.8	5.02
Black	22.5	19.0	22.2	20.6	17.4	17.5	17.3	15.3	19.1	16.8	14.2	13.1	13.0	12.4	9.9	8.9	9.6	7.7	7.4	8.0	8.6	6.7	7.9	7.47
Other race	16.3	27.7	22.4	29.5	9.2	15.9	12.2	15.3	13.8	9.1	14.8	10.7	10.1	8.5	11.5	7.1	5.0	5.1	3.5	5.3	4.9	4.7	6.86	4.85
Diabetes	20.3	16.1	16.8	18.5	15.0	14.5	18.3	17.5	20.0	14.6	15.4	12.7	13.5	11.0	9.5	9.2	8.1	8.2	6.8	7.8	6.7	6.3	6.65	5.98
Hypertension	14.0	14.9	19.6	15.7	14.1	14.2	14.2	13.4	14.0	14.3	11.4	10.4	10.4	10.7	8.7	8.7	6.8	6.5	5.4	6.3	7.3	6.4	6.47	5.15
Glomerulonephritis	14.2	15.2	20.1	20.9	17.9	17.0	16.2	17.6	18.7	16.2	14.9	11.7	11.0	12.9	10.8	9.5	8.5	6.7	7.2	6.9	6.8	6.1	6.34	6.04
Other cause	20.7	18.2	19.8	18.6	18.0	17.6	17.3	18.5	19.1	16.2	15.5	14.4	13.1	13.9	12.1	10.0	10.3	8.0	7.9	8.3	7.2	6.7	6.32	5.61
First transplant	17.8	16.3	19.5	17.8	15.3	15.1	15.6	16.0	16.6	14.4	13.7	11.6	11.3	11.1	9.5	8.6	7.9	6.9	6.3	6.9	6.5	6.0	6.11	5.32
Subsequent transplants	24.5	23.7	24.5	28.5	27.9	23.8	24.0	24.7	28.0	22.7	19.5	17.7	16.9	18.9	15.6	14.3	11.9	10.8	10.4	10.4	10.4	8.5	8.49	8.31
All	18.7	17.3	20.1	19.4	17.3	16.5	16.9	17.3	18.3	15.6	14.6	12.5	12.1	12.1	10.3	9.4	8.5	7.4	6.9	7.4	7.0	6.4	6.44	5.7

Table F.20

One-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	0.0	0.0	33.3	0.0	14.3	20.0	0.0	37.5	27.1	8.3	20.0	0.0	37.5	7.1	0.0	9.1	0.0	0.0	10.0	0.0	25.0	7.7	0.0	17.5
1-4	25.0	0.0	33.3	26.0	8.3	25.0	7.1	10.5	30.0	0.0	0.0	5.6	15.4	21.4	12.5	0.0	18.2	9.1	13.3	7.7	12.5	0.0	8.7	8.3
5-9	5.6	11.8	25.5	15.6	4.2	14.3	30.4	25.9	17.7	18.2	0.0	7.1	7.4	22.7	6.3	4.2	11.4	0.0	3.9	0.0	7.1	11.1	3.7	0.0
10-14	8.9	5.1	20.0	10.9	10.0	12.3	0.0	15.8	14.6	0.0	22.2	4.4	9.3	7.7	4.9	2.7	2.3	6.4	5.1	2.8	14.3	2.6	2.0	0.0
15-19	6.6	11.7	9.5	12.8	13.8	13.1	7.5	6.4	8.8	2.8	10.5	6.5	12.1	6.5	7.6	10.8	2.6	6.8	9.4	3.3	4.8	9.1	3.3	4.3
20-29	9.0	7.3	8.4	8.3	9.8	7.7	8.7	9.9	10.4	8.5	7.3	5.9	7.4	6.6	7.2	5.9	6.5	4.0	7.7	5.0	6.1	4.7	4.1	2.7
30-39	4.8	11.9	10.3	8.7	9.2	10.0	5.3	6.6	9.7	7.6	7.4	5.2	8.3	6.6	6.2	4.8	5.2	3.2	4.0	4.6	3.7	3.4	3.4	4.5
40-49	11.9	10.6	7.9	9.8	6.0	3.9	3.4	6.7	4.7	6.8	9.1	5.9	6.1	4.0	7.8	4.8	4.8	5.1	3.3	3.1	5.2	5.0	4.6	3.6
50-59	11.5	11.5	7.3	5.3	6.1	1.8	3.1	4.1	4.7	8.0	6.5	5.8	6.1	10.2	5.3	5.7	3.4	3.5	4.0	3.7	4.3	3.4	2.9	2.3
60-64	.	0.0	0.0	0.0	3.1	7.1	1.6	8.9	6.7	3.1	3.6	4.5	2.1	4.7	6.8	8.4	1.7	5.4	3.5	1.4	3.5	3.7	2.5	3.1
65-69	0.0	0.0	0.0	20.0	0.0	10.0	6.7	7.1	14.3	0.0	0.0	5.9	4.8	3.2	2.6	6.3	6.1	0.0	3.6	3.5	1.2	3.6	1.8	3.5
70-79	.	.	.	0.0	0.0	0.0	14.3	0.0	.	.	0.0	0.0	4.0	14.3	0.0	9.5	4.6	3.5	2.8	0.0	7.2	1.1	2.7	2.3
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.0	.	0.0	0.0	0.0
Male	8.8	11.5	10.2	10.0	8.4	7.2	5.2	8.0	11.3	6.9	7.9	5.1	6.7	6.7	6.4	5.3	3.9	3.7	3.7	2.7	4.4	3.6	2.9	2.9
Female	7.5	7.4	9.1	7.8	8.8	7.8	6.1	7.0	5.9	7.6	7.5	6.3	8.4	7.2	7.0	5.9	6.2	4.5	6.1	5.0	5.0	4.8	4.1	3.8
White	7.8	8.7	9.5	8.6	8.0	6.5	5.6	7.7	9.4	6.4	7.7	5.3	7.1	6.8	6.0	4.9	4.3	4.1	4.7	3.8	4.4	3.8	3.2	3.4
Black	12.3	18.6	13.1	12.2	12.9	13.1	5.6	8.9	9.5	13.3	8.9	8.8	10.0	6.7	11.0	8.9	8.0	3.5	5.5	3.9	6.0	5.6	4.5	3.5
Other race	6.7	10.6	2.8	9.5	4.0	5.3	3.7	1.3	2.6	4.0	4.7	0.0	4.0	10.3	2.2	5.5	4.2	5.3	1.2	0.9	3.8	2.5	3.5	0.5
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	3.9	3.1	4.7	4.2	3.8	3.5	2.3	2.7
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5.1	4.2	4.7	3.6	4.8	4.2	3.6	3.4
Diabetes	5.9	11.7	8.2	11.4	10.7	7.7	6.6	7.6	10.9	5.7	8.6	4.9	9.3	6.1	5.6	4.9	4.1	2.9	2.8	2.8	4.3	3.3	3.1	2.2
Hypertension	9.2	8.1	10.1	7.4	8.6	5.8	3.7	6.8	6.9	8.2	7.1	7.3	7.8	6.0	8.3	5.0	4.0	2.3	3.9	5.6	3.2	3.5	2.6	2.8
Glomerulonephritis	8.3	10.5	10.3	9.7	9.2	7.2	5.0	7.5	11.5	7.6	7.1	4.8	6.9	7.9	6.7	6.7	5.3	5.7	5.8	3.2	6.2	5.6	2.9	3.3
Other cause	8.7	9.1	10.0	8.0	6.7	8.2	6.2	8.0	6.1	7.4	8.0	6.3	6.4	6.9	6.3	5.1	5.7	3.9	5.5	3.7	4.5	3.7	4.4	4.3
First transplant	8.5	9.8	9.8	9.2	8.5	6.9	5.6	7.3	9.2	7.0	6.9	5.1	7.2	6.8	5.8	5.5	4.7	3.9	4.3	3.4	4.4	3.7	2.8	3.3
Subsequent transplants	4.5	10.3	9.9	7.7	9.1	12.6	4.9	10.4	8.9	8.7	16.6	10.5	9.9	7.7	13.8	6.3	7.2	5.9	7.9	6.0	7.2	6.9	7.5	3.1
All	8.3	9.9	9.8	9.1	8.5	7.4	5.6	7.6	9.1	7.2	7.7	5.6	7.4	6.9	6.6	5.6	4.9	4.0	4.7	3.7	4.7	4.1	3.4	3.3
ADJUSTED																								
0-19	29.4	29.6	30.2	33.2	31.8	33.6	28.2	30.2	32.6	28.5	27.6	20.5	19.6	18.9	17.6	22.1	11.8	9.8	14.9	16.0	12.8	9.0	6.9	11.0
20-44	36.4	35.3	32.9	34.9	28.8	24.2	27.0	26.5	25.5	21.4	20.5	16.9	17.1	17.6	15.2	13.1	12.4	10.9	9.6	11.0	9.8	9.1	9.6	9.2
45-64	44.9	41.7	39.5	38.1	31.9	30.0	29.3	28.0	25.5	23.0	21.4	19.3	18.7	17.7	16.7	15.3	14.4	12.9	13.2	13.6	13.5	12.1	12.1	11.5
65-74	21.5	46.8	0.0	45.2	49.2	34.7	27.7	40.4	32.8	27.0	25.7	21.3	18.0	23.7	21.4	20.7	18.7	19.1	18.0	17.7	17.6	19.0	16.5	13.2
75+	.	.	.	0.0	0.0	0.0	.	0.0	32.0	16.8	27.2	0.0	19.0	57.8	31.3	23.2	19.5	24.4	22.8	23.6	13.7	23.4	19.6	15.5
Male	40.2	38.5	37.7	37.6	31.5	27.4	29.3	28.6	27.4	22.9	21.7	18.5	18.3	17.5	16.4	15.4	13.5	11.8	12.3	12.1	12.0	11.7	10.7	10.7
Female	38.6	38.1	33.8	37.2	31.7	29.4	28.8	28.7	26.0	23.6	22.3	18.8	18.2	19.9	16.9	14.3	14.2	13.5	11.8	14.1	12.7	10.6	10.7	10.2
White	37.4	35.5	34.6	35.8	30.5	27.4	28.1	28.8	26.1	22.2	21.2	17.9	17.6	18.0	16.1	15.0	13.1	12.1	11.8	12.0	10.9	10.9	10.1	9.6
Black	44.7	45.1	39.7	41.3	34.4	29.9	32.2	28.0	29.5	26.6	23.1	20.8	20.4	19.4	18.0	15.3	15.3	14.3	13.9	15.9	15.9	13.3	14.1	13.2
Other race	47.1	47.5	42.0	44.0	25.9	25.5	26.2	28.0	21.1	13.0	22.5	13.5	14.0	15.9	15.4	11.7	14.9	7.8	7.4	8.8	10.4	9.7	11.0	8.4
Diabetes	44.5	38.6	36.9	42.6	32.4	26.8	31.6	29.9	29.0	21.6	23.6	20.0	19.9	18.4	16.3	14.6	14.0	13.9	12.7	12.9	13.1	11.4	12.1	11.2
Hypertension	33.8	33.5	33.7	31.6	27.3	24.8	25.4	25.7	22.3	21.3	19.7	16.2	16.1	15.7	15.1	13.7	11.3	12.2	12.0	12.2	13.0	12.3	11.8	10.5
Glomerulonephritis	33.8	36.7	35.0	34.9	29.6	26.8	27.9	27.8	25.9	23.2	20.9	17.8	17.2	18.4	16.7	15.5	14.1	11.0	11.5	13.1	11.1	10.3	10.6	10.7
Other cause	40.7	38.0	35.3	37.6	33.1	30.3	29.7	29.1	28.3	25.0	22.6	19.8	19.4	21.1	18.2	16.2	15.5	12.5	12.1	13.1	11.6	11.8	10.6	9.8
First transplant	38.7	37.2	35.3	35.7	29.6	26.0	28.0	27.5	25.1	21.7	20.8	17.7	17.5	17.6	15.7	14.0	13.2	11.9	11.4	12.2	11.5	10.8	10.8	9.8
Subsequent transplants	46.3	45.8	42.6	48.0	42.3	39.0	35.9	35.1	36.9	32.1	28.2	24.2	22.7	23.7	22.1	21.1	17.3	15.8	16.5	17.0	16.9	15.4	13.9	15.8
All	39.7	38.4	36.3	37.5	31.6	28.1	29.2	28.7	26.9	23.2	21.9	18.6	18.3	18.4	16.6	15.0	13.8	12.5	12.1	12.9	12.2	11.4	11.3	10.5

Table F.21

Two-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	0.0	0.0	33.3	0.0	28.6	20.0	0.0	37.5	27.1	8.3	20.0	0.0	37.5	7.1	0.0	9.1	25.0	0.0	10.0	0.0	25.0	7.7	0.0
1-4	25.0	0.0	50.0	32.7	8.3	33.3	14.9	15.8	30.0	0.0	0.0	5.6	23.1	21.4	12.5	0.0	18.2	13.6	13.3	7.7	12.5	0.0	8.7
5-9	17.4	11.8	36.7	32.4	12.5	14.3	30.4	25.9	17.7	18.2	0.0	10.7	11.1	27.3	6.3	12.9	15.3	0.0	7.7	0.0	7.1	14.8	3.7
10-14	15.7	15.3	33.7	16.4	16.8	14.4	19.4	23.7	24.5	2.4	22.2	6.6	14.0	15.4	4.9	8.1	7.1	9.6	7.6	2.8	25.0	5.3	10.2
15-19	16.6	19.5	13.3	19.0	18.4	19.7	11.8	11.8	17.7	10.0	17.2	13.1	17.7	9.1	10.1	15.0	9.2	8.0	9.4	10.0	9.5	10.4	10.0
20-29	12.3	11.0	14.9	12.9	13.4	10.3	13.1	14.3	15.0	11.2	9.0	9.7	10.7	10.9	9.8	8.1	10.6	10.3	12.2	11.3	11.3	9.4	9.2
30-39	7.8	16.0	13.4	12.6	12.7	12.3	7.4	8.1	13.5	8.2	10.0	7.3	10.7	10.4	8.5	8.0	8.1	6.1	6.8	7.5	6.1	6.8	6.3
40-49	12.7	12.9	10.5	13.9	7.8	7.1	5.0	8.5	5.3	7.3	9.9	9.5	7.7	6.0	9.9	6.6	6.5	7.4	5.1	4.5	6.5	6.2	6.7
50-59	11.5	15.4	11.6	6.9	7.4	2.8	4.5	6.3	6.7	9.5	8.8	6.9	9.6	12.3	6.5	6.0	5.0	4.7	5.9	5.0	5.8	4.7	4.7
60-64	.	0.0	0.0	0.0	9.6	7.1	3.4	10.5	6.7	3.1	3.6	7.0	4.3	4.7	6.8	9.5	2.6	6.3	3.5	1.4	3.5	4.9	4.3
65-69	0.0	0.0	0.0	20.0	0.0	10.0	6.7	10.9	14.3	0.0	0.0	5.9	4.8	3.2	2.6	6.3	7.3	1.2	5.5	4.4	1.2	4.1	4.1
70-79	.	.	.	0.0	0.0	0.0	14.3	0.0	.	.	0.0	0.0	0.0	14.3	0.0	9.5	4.6	3.5	8.9	2.4	9.6	1.1	3.5
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.0	.	0.0	0.0
Male	13.5	16.0	14.6	14.8	12.4	9.4	7.7	10.7	15.5	8.1	9.5	7.6	9.7	9.0	8.1	7.3	6.5	5.8	6.1	5.0	6.2	5.3	5.5
Female	9.5	11.1	14.9	11.4	11.1	11.0	9.3	9.7	9.0	9.9	10.1	9.7	11.0	11.2	9.1	8.3	8.9	8.2	8.6	7.9	7.7	7.4	6.7
White	11.6	13.1	14.2	12.6	10.8	8.6	7.9	10.1	12.8	7.9	9.1	7.8	9.7	9.5	7.6	6.8	6.3	6.5	6.9	5.9	6.4	5.2	5.4
Black	14.9	20.5	20.2	19.5	19.0	18.6	12.2	13.3	16.1	16.7	15.2	14.8	14.4	10.8	14.4	12.8	14.0	8.2	9.3	8.9	9.4	11.0	9.6
Other race	6.7	16.0	2.8	9.5	10.2	7.1	3.7	3.8	5.2	4.0	7.0	1.8	6.0	15.5	4.4	6.6	5.6	7.5	2.4	1.9	5.9	4.4	4.1
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6.4	5.2	6.0	5.5	5.8	4.5	5.0
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7.7	7.1	7.4	6.4	7.1	6.4	6.2
Diabetes	11.2	16.6	13.5	16.0	15.4	9.0	9.3	9.0	13.9	7.7	10.4	6.6	10.9	8.4	8.0	6.1	6.5	4.1	3.9	4.6	6.4	4.4	5.2
Hypertension	12.3	10.1	16.4	15.6	12.1	10.2	7.1	8.4	13.3	9.6	10.8	11.1	12.3	8.0	9.6	6.3	7.6	6.2	8.3	9.2	5.4	6.0	5.7
Glomerulonephritis	12.2	16.2	15.3	14.0	13.1	9.9	8.0	9.7	15.8	8.8	8.5	8.4	10.7	12.6	9.1	9.7	8.0	8.5	8.9	5.8	8.8	8.4	6.2
Other cause	11.7	12.3	14.2	10.9	8.7	10.6	8.6	12.3	9.0	9.4	10.3	9.1	8.3	9.5	7.8	7.6	7.9	7.3	7.3	6.3	6.4	5.7	6.6
First transplant	11.9	14.2	14.7	13.4	11.9	9.6	8.5	10.1	13.2	8.8	8.8	7.9	10.1	9.9	7.8	7.7	7.3	6.6	6.7	5.9	6.5	5.8	5.4
Subsequent transplants	11.5	10.3	15.8	14.5	11.5	14.0	6.8	11.6	9.9	8.7	20.5	14.3	12.3	9.8	15.6	8.3	9.6	9.3	11.0	9.4	9.5	9.2	10.0
All	11.8	14.1	14.7	13.5	11.9	10.0	8.3	10.3	12.9	8.8	9.7	8.5	10.2	9.9	8.6	7.7	7.6	6.9	7.2	6.2	6.9	6.2	6.0
ADJUSTED																							
0-19	40.9	40.9	41.7	40.4	40.5	42.1	37.8	38.0	39.1	36.5	35.7	30.2	29.3	26.3	24.5	31.5	22.0	18.9	21.1	20.5	25.0	18.0	16.2
20-44	46.0	43.7	43.0	43.9	38.2	33.5	35.5	35.4	32.7	28.5	26.7	22.2	23.1	23.0	20.6	17.9	17.9	16.4	14.1	16.5	16.2	14.1	14.1
45-64	55.9	50.7	48.3	48.5	40.4	37.5	37.7	35.7	31.7	29.3	26.5	24.1	24.4	23.7	22.4	19.8	19.9	18.1	18.6	18.0	18.6	18.5	18.0
65-74	51.9	58.3	0.0	60.7	57.5	47.1	37.8	44.9	38.4	33.5	29.6	27.5	24.4	30.4	28.8	28.1	24.0	26.3	24.5	26.0	23.2	24.4	23.9
75+	.	.	.	0.0	100.0	0.0	.	0.0	47.1	16.8	26.6	22.1	25.2	57.3	31.2	34.3	32.3	27.3	26.8	26.3	32.3	31.1	24.7
Male	50.2	47.7	47.2	47.7	41.4	36.4	38.5	37.8	34.5	30.0	28.0	24.1	24.9	23.6	22.0	20.6	19.1	17.7	17.3	17.2	17.4	17.6	17.5
Female	49.9	47.1	45.0	45.6	40.4	38.2	37.0	36.2	32.4	30.3	27.7	24.1	23.4	25.3	22.8	19.2	20.1	18.5	17.2	19.5	19.1	16.5	15.8
White	47.4	44.1	43.8	44.7	39.2	34.6	35.9	35.7	31.4	27.8	26.3	22.4	22.4	22.8	20.8	19.1	17.8	17.0	15.8	16.0	15.7	16.0	15.0
Black	57.0	55.5	52.8	52.9	46.3	43.6	44.2	41.4	40.9	37.7	31.6	28.8	29.6	28.7	26.2	23.1	23.7	21.4	21.5	24.0	23.7	20.9	21.3
Other race	59.7	58.5	52.9	53.1	36.0	38.5	33.6	36.0	27.3	19.8	28.9	17.7	20.0	18.4	20.9	16.0	17.8	13.9	14.2	13.2	17.0	14.3	16.1
Diabetes	54.3	47.4	49.0	52.1	44.7	35.4	40.2	39.5	35.0	28.7	30.2	25.7	26.7	25.1	21.7	19.8	19.9	20.1	18.6	18.4	19.0	17.9	18.0
Hypertension	44.9	40.3	44.4	41.8	37.3	37.3	36.0	36.0	30.4	30.1	26.1	22.6	22.9	23.3	21.3	19.9	17.7	17.5	17.5	18.3	19.0	17.8	18.2
Glomerulonephritis	42.6	45.6	44.2	44.1	37.6	34.9	36.7	35.0	32.6	29.7	26.8	22.8	23.3	22.8	22.5	20.2	20.4	16.9	16.6	18.5	17.1	15.7	15.6
Other cause	52.0	47.9	44.9	46.7	41.7	38.2	37.3	36.9	35.0	30.9	27.5	24.5	24.0	25.9	23.7	20.4	19.6	17.2	16.2	17.0	17.0	17.3	15.5
First transplant	49.1	46.4	45.3	45.0	39.1	34.6	36.6	36.3	32.0	28.9	26.6	22.9	23.5	23.4	21.3	18.9	18.9	17.3	16.5	17.3	17.0	16.4	16.3
Subsequent transplants	57.2	54.5	53.5	58.8	51.8	49.7	45.7	42.2	43.6	37.5	35.2	31.1	29.4	29.7	28.0	27.3	22.9	22.2	22.1	22.2	24.1	22.4	19.7
All	59.1	56.4	55.4	60.7	53.7	51.5	47.5	43.9	45.3	39.2	36.8	32.6	30.8	31.1	29.3	28.6	24.0	23.3	23.2	23.3	25.3	23.5	20.7

Table F.22

Three-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	0	25	33.33	0	28.57	20	0	50	27.08	8.33	20	0	58.33	7.14	0	9.09	25	0	10	0	25	7.69
1-4	25.0	0.0	50.0	41.1	8.3	33.3	14.9	21.1	30.0	0.0	9.1	5.6	23.1	21.4	12.5	0.0	18.2	13.6	13.3	7.7	12.5	0.0
5-9	23.3	11.8	47.8	44.7	25.0	14.3	34.8	25.9	29.4	18.2	5.3	17.9	14.8	27.3	6.3	12.9	19.1	0.0	11.5	0.0	7.1	14.8
10-14	20.5	35.9	36.1	23.8	20.2	26.9	19.4	23.7	29.5	2.4	33.8	11.0	20.9	20.5	7.3	13.5	9.5	12.8	12.8	8.3	25.0	5.3
15-19	20.1	24.4	16.1	22.5	24.1	22.3	22.7	19.6	20.2	14.4	23.9	19.7	23.4	21.0	15.3	24.8	11.8	13.7	18.8	21.6	17.5	14.3
20-29	14.9	14.7	19.0	17.1	16.7	15.6	16.6	18.2	17.9	15.9	13.5	12.8	13.1	16.0	12.2	13.2	15.8	13.3	17.0	15.6	15.0	14.8
30-39	11.8	19.5	16.6	16.0	16.1	16.6	10.1	9.9	17.0	10.7	11.4	10.5	12.0	11.7	11.5	9.4	11.9	10.4	10.5	9.6	8.1	9.0
40-49	15.4	18.3	14.7	16.3	14.1	8.7	6.7	10.6	7.7	8.3	11.5	11.4	10.4	7.8	12.2	8.5	8.9	10.1	8.2	7.4	8.5	8.7
50-59	14.8	18.3	14.2	8.6	10.0	5.4	4.8	8.1	11.0	12.5	9.5	9.4	10.1	14.0	8.5	10.1	6.2	6.8	7.6	6.1	7.4	6.3
60-64	.	0.0	0.0	0.0	12.9	7.1	3.4	12.0	6.7	6.6	3.6	9.7	4.3	6.5	10.6	10.7	2.6	7.1	4.5	2.9	6.0	6.9
65-69	0.0	0.0	0.0	20.0	0.0	10.0	6.7	10.9	14.3	0.0	7.1	5.9	7.5	3.2	2.6	6.3	7.3	1.2	7.5	6.2	1.8	4.1
70-79	.	.	.	0.0	0.0	0.0	14.3	0.0	.	.	0.0	0.0	0.0	14.3	0.0	9.5	4.6	7.2	8.9	2.4	10.9	1.1
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.0	0.0
Male	16.5	20.1	18.4	18.3	16.3	13.2	10.5	13.6	18.7	10.3	12.2	10.0	12.1	11.3	11.0	10.3	9.4	8.4	9.1	7.6	8.3	7.7
Female	13.1	16.6	18.4	15.1	15.3	14.4	11.4	11.8	12.4	13.6	13.4	13.6	13.0	14.9	11.3	11.2	11.6	11.4	12.2	10.8	10.1	9.7
White	14.3	17.3	18.0	16.3	14.4	11.9	9.9	12.6	15.4	10.6	11.9	10.6	11.4	11.6	9.6	8.9	8.7	9.0	9.4	7.6	8.5	7.3
Black	22.5	28.4	23.3	22.8	26.4	24.7	17.2	15.9	23.7	20.1	19.5	19.0	18.3	17.8	20.0	19.7	18.9	12.7	16.2	15.0	12.0	14.9
Other race	6.7	21.6	6.0	12.1	10.2	10.7	8.8	6.4	7.9	6.0	11.8	5.3	14.2	15.5	5.5	10.0	7.0	10.8	6.1	5.6	7.9	6.4
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10.9	7.3	7.7	7.2	8.1	6.8
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10.3	10.1	10.9	9.3	9.3	8.8
Diabetes	14.6	19.2	18.0	19.5	19.0	10.3	11.9	11.7	15.7	9.7	12.2	8.7	12.2	10.6	9.6	6.9	8.2	6.4	6.0	6.5	7.6	6.5
Hypertension	17.2	16.4	21.4	18.2	16.8	15.7	10.5	10.9	18.8	14.5	14.6	14.4	16.3	10.4	13.2	11.5	9.6	9.0	14.1	11.0	8.0	7.1
Glomerulonephritis	14.9	20.2	18.8	18.3	17.5	14.7	10.6	12.5	19.3	11.6	11.2	11.7	12.4	16.0	12.4	12.8	11.2	11.7	12.7	10.3	12.4	11.9
Other cause	15.0	17.7	17.1	14.1	12.2	13.9	10.6	14.7	12.3	12.0	14.2	12.5	10.7	12.6	9.6	10.6	11.5	10.1	9.7	8.2	7.8	7.9
First transplant	15.3	18.6	18.2	17.2	16.2	13.3	11.2	12.8	16.4	11.6	11.9	10.6	12.4	12.8	10.4	10.7	9.9	9.2	10.1	8.5	8.4	7.9
Subsequent transplants	11.5	21.1	21.7	15.7	13.1	16.9	8.3	13.9	14.0	12.2	21.5	21.3	13.0	12.7	17.4	10.9	14.6	14.4	12.8	12.3	14.4	13.1
All	15.1	18.7	18.4	17.1	15.9	13.7	10.9	12.9	16.2	11.7	12.7	11.6	12.5	12.8	11.1	10.7	10.4	9.7	10.4	8.9	9.1	8.6
ADJUSTED																						
0-19	49.1	48.7	47.7	47.1	47.4	48.8	48.6	46.5	47.4	41.3	44.7	33.8	35.4	35.8	30.6	39.6	31.8	26.4	29.1	28.2	32.9	24.7
20-44	52.2	50.7	49.8	50.2	45.8	41.9	42.9	42.6	38.4	34.7	32.0	27.9	28.2	29.0	25.5	23.7	23.0	21.8	20.2	21.5	21.9	18.9
45-64	60.8	59.3	55.8	56.1	46.8	44.5	45.6	42.9	37.0	35.0	32.2	30.3	29.9	29.1	27.7	25.5	24.5	24.0	24.1	23.0	23.8	23.8
65-74	61.7	79.9	0.0	60.7	61.5	53.3	44.3	49.5	45.2	41.3	37.3	34.9	31.8	37.2	34.2	34.6	30.2	34.8	31.1	34.2	29.0	30.9
75+	.	.	.	0.0	100.0	0.0	.	0.0	46.9	35.2	38.6	21.1	24.5	57.7	43.1	45.0	38.4	36.0	32.3	28.1	34.1	38.2
Male	55.8	55.0	54.8	54.5	49.4	44.9	46.8	45.4	40.4	36.4	33.3	30.5	30.5	29.8	27.3	26.5	23.9	23.8	23.1	22.0	22.7	23.0
Female	57.2	55.4	51.1	52.3	46.7	45.5	44.2	43.1	38.1	36.1	34.1	29.3	28.6	30.7	28.0	25.1	25.6	24.3	23.2	25.7	24.8	21.3
White	53.5	51.6	50.6	51.1	46.3	42.0	42.4	42.5	36.5	33.2	31.3	27.4	27.2	28.0	25.1	24.0	22.0	22.1	21.2	20.8	20.4	20.5
Black	63.3	64.7	60.9	61.4	54.2	53.4	56.3	50.3	48.6	45.9	39.8	37.6	37.0	36.7	34.0	31.9	30.9	29.6	28.3	30.4	31.2	27.8
Other race	66.7	61.4	60.3	54.2	42.1	46.7	37.7	43.0	33.3	25.3	32.5	24.1	24.7	23.3	26.1	19.8	23.1	19.0	20.6	19.4	20.3	17.9
Diabetes	58.8	51.3	57.9	57.9	52.5	44.8	48.1	47.9	40.1	35.3	35.7	30.9	34.0	31.1	27.3	25.5	25.4	25.9	24.8	24.2	24.4	23.7
Hypertension	50.9	48.8	49.2	51.1	44.2	44.5	45.0	44.0	38.0	37.6	33.1	30.1	28.8	29.4	26.6	27.7	23.6	23.8	22.9	24.4	25.4	23.6
Glomerulonephritis	49.2	52.6	51.2	50.9	44.1	43.0	43.8	42.1	38.2	35.4	32.4	28.6	28.1	29.1	28.5	26.0	24.8	23.0	23.1	23.4	22.7	19.9
Other cause	58.3	56.9	51.9	52.5	49.4	45.7	45.1	43.2	40.1	36.2	32.6	30.2	27.9	31.2	27.8	25.1	24.4	22.9	21.3	21.6	21.3	22.2
First transplant	64.2	62.8	57.8	58.3	55.2	51.3	50.7	48.7	45.4	41.3	37.3	34.6	32.2	35.8	32.1	29.0	28.3	26.5	24.7	25.1	24.8	25.8
Subsequent transplants	65.0	61.0	60.7	66.5	58.8	57.6	53.9	47.7	50.1	43.1	41.0	38.4	33.3	36.3	32.2	33.9	28.6	28.9	29.0	28.1	31.1	28.3
All	66.8	62.9	62.6	68.4	60.7	59.4	55.8	49.5	51.9	44.8	42.7	40.0	34.8	37.8	33.6	35.4	29.9	30.2	30.3	29.4	32.5	29.6

Standard errors

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	.	18.8	22.2	.	15.7	16.0	.	16.1	15.2	7.6	16.0	.	18.7	6.6	.	8.3	18.8	.	9.0	.	18.8	7.1
1-4	18.8	.	13.6	12.5	7.6	12.9	9.3	9.1	13.6	.	8.3	5.3	11.2	10.5	10.9	.	8.0	7.1	8.5	7.1	8.0	.
5-9	9.9	7.6	9.4	11.4	8.6	7.4	9.6	8.3	10.7	8.0	5.0	7.0	6.7	9.2	5.9	6.8	7.5	.	6.1	.	6.6	6.6
10-14	6.0	7.5	7.1	5.7	5.2	6.3	6.5	6.8	7.1	2.4	9.0	4.6	6.1	6.4	4.0	5.5	4.5	5.9	5.3	4.5	8.0	3.6
15-19	5.1	4.2	3.6	3.9	4.6	4.7	4.3	4.1	4.5	4.2	4.9	4.5	4.9	4.6	4.1	5.0	3.7	3.7	4.8	5.3	4.7	4.0
20-29	2.1	2.1	2.0	2.0	2.0	1.9	1.8	2.0	2.2	2.1	1.8	1.8	1.8	1.9	1.6	1.8	1.9	1.8	2.1	1.9	2.0	1.8
30-39	2.3	2.3	2.0	1.9	1.8	1.8	1.3	1.4	2.1	1.7	1.7	1.6	1.6	1.6	1.5	1.3	1.5	1.5	1.5	1.5	1.3	1.2
40-49	3.3	3.3	2.5	2.5	2.3	1.6	1.3	1.5	2.1	1.9	2.0	1.9	1.7	1.4	1.6	1.3	1.4	1.5	1.4	1.3	1.2	1.2
50-59	6.0	4.4	3.2	2.5	2.4	1.6	1.3	1.6	3.1	2.8	2.5	2.2	2.3	2.2	1.7	1.7	1.4	1.4	1.4	1.2	1.2	1.0
60-64	.	.	.	.	5.9	3.9	2.3	4.0	6.2	4.4	3.4	4.6	2.9	3.1	4.1	3.2	1.5	2.3	1.9	1.4	1.8	1.6
65-69	.	.	.	16.0	.	9.0	4.5	5.8	12.2	.	6.6	5.5	4.1	3.1	2.5	3.1	2.9	1.2	2.5	2.3	1.1	1.4
70-79	.	.	.	.	.	.	12.2	.	.	.	.	.	.	12.2	.	6.3	4.3	4.8	4.8	2.3	3.4	1.1
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	1.8	1.7	1.4	1.4	1.3	1.1	0.9	1.1	1.5	1.2	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.9	0.8	0.8	0.7
Female	1.9	1.9	1.9	1.6	1.6	1.4	1.2	1.2	1.6	1.6	1.4	1.4	1.3	1.4	1.2	1.1	1.1	1.1	1.1	1.1	1.0	0.9
White	1.4	1.3	1.2	1.1	1.1	0.9	0.8	0.9	1.2	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.6
Black	4.6	4.4	3.2	3.1	3.3	2.9	2.3	2.2	3.7	3.3	3.3	2.8	2.7	2.3	2.3	2.3	2.1	1.8	2.0	1.8	1.6	1.6
Other race	6.2	6.6	4.1	5.0	4.3	4.1	3.2	2.7	4.3	3.3	4.9	3.0	4.9	4.7	2.4	3.1	3.0	3.2	2.6	2.2	2.7	1.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2.0	1.5	1.5	1.5	1.4	1.3
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.7	0.7	0.8	0.7	0.7	0.6
Diabetes	3.6	3.5	2.8	2.7	2.5	1.7	1.6	1.7	2.3	1.8	1.9	1.5	1.8	1.6	1.5	1.2	1.3	1.2	1.1	1.2	1.2	0.9
Hypertension	4.7	3.7	3.4	3.0	2.8	2.5	1.9	2.0	3.7	2.9	3.0	2.6	2.5	1.9	1.9	1.8	1.7	1.7	2.0	1.7	1.4	1.2
Glomerulonephritis	2.2	2.1	1.8	1.8	1.7	1.6	1.3	1.4	2.0	1.6	1.5	1.5	1.5	1.7	1.4	1.3	1.3	1.3	1.4	1.3	1.3	1.2
Other cause	1.9	2.0	1.8	1.6	1.5	1.5	1.3	1.4	1.8	1.7	1.8	1.6	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.9
First transplant	1.3	1.3	1.1	1.1	1.1	0.9	0.8	0.8	1.2	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.5
Subsequent transplants	4.8	6.5	4.9	3.8	2.9	3.1	1.9	2.6	3.5	3.4	3.9	3.6	2.9	2.8	2.9	2.2	2.5	2.6	2.2	2.3	2.2	1.8
All	1.3	1.3	1.1	1.0	1.0	0.9	0.7	0.8	1.1	0.9	0.9	0.9	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5
ADJUSTED																						
0-19																						
20-44																						
45-64																						
65-74																						
75+																						
Male																						
Female																						
White																						
Black																						
Other race																						
Diabetes																						
Hypertension																						
Glomerulonephritis																						
Other cause																						
First transplant																						
Subsequent transplants																						
All																						

Table F.23

Five-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants*by age, gender, race/ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<1	0	25	33.33	33.33	57.14	20	0	62.5	27.08	8.33	20	0	58.33	7.14	0	9.09	25	0	10	0
1-4	25.0	12.5	58.3	49.5	35.8	41.7	14.9	21.1	30.0	0.0	9.1	11.5	23.1	21.4	12.5	14.3	18.2	13.6	20.0	7.7
5-9	35.1	24.4	51.6	63.2	29.2	23.8	39.1	33.3	43.0	22.7	15.8	21.4	29.6	27.3	13.0	21.8	19.1	15.8	11.5	5.3
10-14	30.2	43.6	38.5	37.1	38.9	39.4	33.6	31.6	34.5	19.5	41.6	17.7	34.9	35.9	7.3	24.3	19.0	19.4	12.8	11.2
15-19	33.7	30.4	29.5	32.4	32.5	30.5	28.2	32.8	31.6	30.3	33.4	25.1	27.7	43.6	27.1	34.5	22.6	29.1	34.4	25.0
20-29	23.8	20.8	26.9	24.3	26.9	21.4	24.4	23.8	23.7	22.7	21.3	20.5	22.8	23.6	23.3	21.3	25.5	24.0	27.9	23.0
30-39	16.5	24.3	22.5	20.4	20.3	22.8	14.1	13.4	22.3	14.9	18.4	16.7	19.4	17.7	18.6	15.2	16.8	13.5	14.7	16.3
40-49	23.5	20.7	17.0	19.3	19.4	11.3	10.4	13.5	13.9	10.8	17.1	18.5	15.5	14.0	18.2	14.3	15.5	14.8	13.2	13.4
50-59	24.9	24.5	17.2	10.3	12.1	6.0	5.9	9.6	17.8	15.8	14.4	16.0	15.0	16.2	11.5	14.5	11.4	11.4	12.0	9.1
60-64	.	33.3	0.0	0.0	12.9	7.1	3.4	15.3	6.7	10.3	8.9	15.6	6.5	10.5	23.1	16.1	10.7	9.8	8.5	5.5
65-69	0.0	0.0	0.0	20.0	0.0	22.9	6.7	15.1	14.3	0.0	14.9	5.9	7.5	15.0	2.6	8.5	10.1	5.2	12.1	10.5
70-79	.	.	.	0.0	0.0	0.0	14.3	0.0	.	.	0.0	0.0	0.0	14.3	0.0	14.6	10.2	11.4	12.0	5.0
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.0
Male	25.4	24.9	25.1	23.5	24.1	18.1	14.3	17.0	25.2	16.3	18.4	16.4	19.3	17.7	18.6	15.6	16.0	14.9	14.3	12.5
Female	20.1	23.0	23.6	21.9	20.6	19.2	16.7	17.1	17.8	18.7	21.1	20.4	19.5	22.1	18.1	18.7	18.2	16.6	18.9	16.4
White	21.9	22.2	24.3	22.1	20.9	16.4	14.2	16.4	20.7	15.4	18.1	16.3	17.7	17.1	16.2	14.7	14.8	14.0	15.0	11.7
Black	36.5	36.6	28.5	29.6	36.7	31.4	23.1	22.3	34.7	31.7	31.0	31.4	29.6	30.5	31.2	28.5	28.0	23.3	23.9	25.0
Other race	6.7	33.2	12.6	14.8	14.5	16.4	10.1	10.2	16.7	10.1	16.7	9.1	20.5	22.9	9.1	14.5	11.6	14.2	9.8	9.4
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	16.3	13.5	13.0	11.6
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	17.0	16.0	16.9	14.6
Diabetes	16.9	21.2	22.3	24.3	23.7	12.4	15.1	15.0	20.7	15.0	17.9	13.4	18.0	16.7	14.8	12.4	13.4	10.0	11.2	10.9
Hypertension	23.7	24.9	27.3	24.7	24.7	19.8	15.9	14.6	28.5	22.7	23.5	25.2	26.4	17.9	21.5	20.0	16.7	15.2	20.8	19.7
Glomerulonephritis	25.1	27.5	27.8	23.6	23.5	19.9	15.2	17.6	25.9	17.2	17.2	19.8	20.0	23.1	21.8	19.5	19.5	20.1	19.6	16.9
Other cause	23.3	21.7	21.0	20.8	20.6	20.3	15.1	18.6	17.4	16.8	22.1	17.2	16.4	19.0	15.4	15.6	16.8	14.8	14.7	10.8
First transplant	23.6	24.2	24.5	23.0	23.5	18.5	15.5	17.1	22.3	17.2	18.4	17.1	19.7	19.2	17.4	16.7	16.2	15.1	15.7	13.8
Subsequent transplants	16.4	23.9	26.1	21.6	15.5	19.1	12.8	16.8	22.6	18.1	32.9	28.5	17.0	23.2	27.2	18.3	23.4	20.8	20.6	17.4
All	23.2	24.2	24.6	22.9	22.7	18.5	15.2	17.0	22.3	17.3	19.6	18.1	19.4	19.5	18.4	16.9	16.9	15.6	16.3	14.2
ADJUSTED																				
0-19	49.1	48.7	47.7	47.1	47.4	48.8	48.6	46.5	47.4	41.3	44.7	33.8	35.4	35.8	30.6	39.6	31.8	26.4	29.1	28.2
20-44	52.2	50.7	49.8	50.2	45.8	41.9	42.9	42.6	38.4	34.7	32.0	27.9	28.2	29.0	25.5	23.7	23.0	21.8	20.2	21.5
45-64	60.8	59.3	55.8	56.1	46.8	44.5	45.6	42.9	37.0	35.0	32.2	30.3	29.9	29.1	27.7	25.5	24.5	24.0	24.1	23.0
65-74	61.7	79.9	0.0	60.7	61.5	53.3	44.3	49.5	45.2	41.3	37.3	34.9	31.8	37.2	34.2	34.6	30.2	34.8	31.1	34.2
75+	.	.	.	0.0	100.0	0.0	.	0.0	46.9	35.2	38.6	21.1	24.5	57.7	43.1	45.0	38.4	36.0	32.3	28.1
Male	55.8	55.0	54.8	54.5	49.4	44.9	46.8	45.4	40.4	36.4	33.3	30.5	30.5	29.8	27.3	26.5	23.9	23.8	23.1	22.0
Female	57.2	55.4	51.1	52.3	46.7	45.5	44.2	43.1	38.1	36.1	34.1	29.3	28.6	30.7	28.0	25.1	25.6	24.3	23.2	25.7
White	53.5	51.6	50.6	51.1	46.3	42.0	42.4	42.5	36.5	33.2	31.3	27.4	27.2	28.0	25.1	24.0	22.0	22.1	21.2	20.8
Black	63.3	64.7	60.9	61.4	54.2	53.4	56.3	50.3	48.6	45.9	39.8	37.6	37.0	36.7	34.0	31.9	30.9	29.6	28.3	30.4
Other race	66.7	61.4	60.3	54.2	42.1	46.7	37.7	43.0	33.3	25.3	32.5	24.1	24.7	23.3	26.1	19.8	23.1	19.0	20.6	19.4
Diabetes	58.8	51.3	57.9	57.9	52.5	44.8	48.1	47.9	40.1	35.3	35.7	30.9	34.0	31.1	27.3	25.5	25.4	25.9	24.8	24.2
Hypertension	50.9	48.8	49.2	51.1	44.2	44.5	45.0	44.0	38.0	37.6	33.1	30.1	28.8	29.4	26.6	27.7	23.6	23.8	22.9	24.4
Glomerulonephritis	49.2	52.6	51.2	50.9	44.1	43.0	43.8	42.1	38.2	35.4	32.4	28.6	28.1	29.1	28.5	26.0	24.8	23.0	23.1	23.4
Other cause	58.3	56.9	51.9	52.5	49.4	45.7	45.1	43.2	40.1	36.2	32.6	30.2	27.9	31.2	27.8	25.1	24.4	22.9	21.3	21.6
First transplant	64.2	62.8	57.8	58.3	55.2	51.3	50.7	48.7	45.4	41.3	37.3	34.6	32.2	35.8	32.1	29.0	28.3	26.5	24.7	25.1
Subsequent transplants	65.0	61.0	60.7	66.5	58.8	57.6	53.9	47.7	50.1	43.1	41.0	38.4	33.3	36.3	32.2	33.9	28.6	28.9	29.0	28.1
All	66.8	62.9	62.6	68.4	60.7	59.4	55.8	49.5	51.9	44.8	42.7	40.0	34.8	37.8	33.6	35.4	29.9	30.2	30.3	29.4

Table F.24

Ten-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants*by age, gender, race, ethnicity, primary diagnosis, & transplant number*

UNADJUSTED	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
<1	0.0	25.0	33.3	66.7	57.1	60.0	0.0	75.0	41.7	16.7	20.0	22.2	58.3	14.3	33.3
1-4	75.0	37.5	79.2	49.5	54.2	50.0	38.1	27.1	41.7	14.3	27.3	46.9	23.1	29.3	25.0
5-9	41.0	49.6	69.2	69.3	54.2	47.6	52.2	56.9	74.3	45.5	32.0	32.1	52.6	51.5	39.7
10-14	48.7	63.1	52.7	58.6	58.7	56.2	59.6	50.0	54.7	40.3	62.5	46.6	48.8	51.3	37.4
15-19	44.6	43.8	51.7	51.6	43.3	58.8	41.2	47.2	52.0	41.9	64.8	45.1	48.9	54.4	54.7
20-29	33.8	35.3	41.5	35.7	38.9	35.2	42.0	40.2	36.4	39.2	39.8	36.5	42.0	38.8	42.8
30-39	24.7	34.2	31.2	29.8	33.9	37.6	30.9	30.2	33.7	29.6	33.2	29.4	37.6	33.1	33.6
40-49	30.6	31.4	25.4	24.5	30.6	24.2	23.2	29.2	25.2	22.7	31.0	29.6	25.7	28.0	33.6
50-59	24.9	31.2	21.4	16.5	23.8	19.5	17.2	21.6	28.2	29.0	29.1	29.1	23.6	27.4	25.7
60-64	.	33.3	0.0	0.0	20.5	10.0	7.4	35.2	17.0	15.9	21.9	25.7	12.2	32.1	41.8
65-69	0.0	0.0	0.0	20.0	33.3	22.9	11.1	24.7	14.3	0.0	24.3	13.1	18.0	15.0	10.7
70-79	.	.	.	0.0	0.0	0.0	14.3	20.0	.	.	0.0	0.0	0.0	31.4	0.0
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Male	35.0	36.4	37.2	34.4	36.0	32.4	29.3	32.2	38.0	30.1	34.5	29.1	35.4	30.4	34.8
Female	29.3	36.7	35.7	31.6	35.1	34.1	31.2	33.6	31.5	34.3	38.9	37.3	33.9	38.6	36.9
White	31.5	34.6	35.5	31.6	33.3	30.6	27.4	30.6	32.6	29.7	34.1	30.2	32.0	30.9	33.2
Black	45.8	50.4	46.6	44.2	51.7	49.7	45.5	45.5	56.2	46.9	54.3	51.7	51.6	46.7	51.4
Other race	6.7	41.9	23.3	29.1	30.2	22.5	30.6	27.5	29.8	27.2	34.7	16.9	31.5	40.6	22.9
†Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
†Non-Hispanic	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Diabetes	25.8	35.5	33.4	32.7	38.4	30.7	29.9	33.0	32.4	28.2	34.8	29.9	32.6	32.4	34.4
Hypertension	25.5	33.8	37.3	37.5	40.1	39.0	32.1	37.2	47.9	44.8	42.0	44.9	44.2	33.7	40.8
Glomerulonephritis	38.1	39.5	39.1	33.8	37.3	34.8	31.9	32.9	39.6	33.2	35.3	32.8	36.2	37.9	36.3
Other cause	31.4	34.8	35.0	31.5	31.0	30.5	27.6	30.8	28.9	27.4	37.1	29.9	30.2	31.3	33.2
First transplant	33.0	36.9	36.3	33.3	36.8	32.7	29.0	32.1	35.4	31.1	35.3	32.0	34.3	33.3	34.7
Subsequent transplants	26.9	29.5	42.7	33.0	25.1	36.4	38.5	38.7	35.2	40.0	49.3	38.9	39.8	39.8	44.3
All	32.6	36.6	36.7	33.3	35.6	33.0	30.1	32.8	35.4	31.8	36.5	32.7	34.7	33.9	35.7
ADJUSTED															
0-19	49.1	48.7	47.7	47.1	47.4	48.8	48.6	46.5	47.4	41.3	44.7	33.8	35.4	35.8	30.6
20-44	52.2	50.7	49.8	50.2	45.8	41.9	42.9	42.6	38.4	34.7	32.0	27.9	28.2	29.0	25.5
45-64	60.8	59.3	55.8	56.1	46.8	44.5	45.6	42.9	37.0	35.0	32.2	30.3	29.9	29.1	27.7
65-74	61.7	79.9	0.0	60.7	61.5	53.3	44.3	49.5	45.2	41.3	37.3	34.9	31.8	37.2	34.2
75+	.	.	.	0.0	100.0	0.0	.	0.0	46.9	35.2	38.6	21.1	24.5	57.7	43.1
Male	55.8	55.0	54.8	54.5	49.4	44.9	46.8	45.4	40.4	36.4	33.3	30.5	30.5	29.8	27.3
Female	57.2	55.4	51.1	52.3	46.7	45.5	44.2	43.1	38.1	36.1	34.1	29.3	28.6	30.7	28.0
White	53.5	51.6	50.6	51.1	46.3	42.0	42.4	42.5	36.5	33.2	31.3	27.4	27.2	28.0	25.1
Black	63.3	64.7	60.9	61.4	54.2	53.4	56.3	50.3	48.6	45.9	39.8	37.6	37.0	36.7	34.0
Other race	66.7	61.4	60.3	54.2	42.1	46.7	37.7	43.0	33.3	25.3	32.5	24.1	24.7	23.3	26.1
Diabetes	58.8	51.3	57.9	57.9	52.5	44.8	48.1	47.9	40.1	35.3	35.7	30.9	34.0	31.1	27.3
Hypertension	50.9	48.8	49.2	51.1	44.2	44.5	45.0	44.0	38.0	37.6	33.1	30.1	28.8	29.4	26.6
Glomerulonephritis	49.2	52.6	51.2	50.9	44.1	43.0	43.8	42.1	38.2	35.4	32.4	28.6	28.1	29.1	28.5
Other cause	58.3	56.9	51.9	52.5	49.4	45.7	45.1	43.2	40.1	36.2	32.6	30.2	27.9	31.2	27.8
First transplant	64.2	62.8	57.8	58.3	55.2	51.3	50.7	48.7	45.4	41.3	37.3	34.6	32.2	35.8	32.1
Subsequent transplants	65.0	61.0	60.7	66.5	58.8	57.6	53.9	47.7	50.1	43.1	41.0	38.4	33.3	36.3	32.2
All	66.8	62.9	62.6	68.4	60.7	59.4	55.8	49.5	51.9	44.8	42.7	40.0	34.8	37.8	33.6

Table F.25

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=31,312)

	Percent of patients	All-cause graft failure		P-value
		Haz. ratio	95% CI	
Transplant era (reference: 1999-2001, 45.4% of patients)				
2002-2004	54.6	0.93	(0.88-0.98)	0.0119
Recipient age (years) (reference: 18-34, 13.3% of patients)				
0-17	2.3	1.31	(1.08-1.59)	0.0063
35-49	29.7	0.89	(0.82-0.97)	0.0068
50-64	39.9	1.05	(0.97-1.14)	0.2223
65+	14.7	1.46	(1.32-1.60)	<.0001
Recipient gender (reference: female, 39.3% of patients)				
Male	60.7	1.03	(0.98-1.08)	0.3045
Recipient race (reference: white, 59.5% of patients)				
Black	33.4	1.12	(1.06-1.19)	0.0001
Asian	5.1	0.69	(0.60-0.79)	<.0001
Other/Unknown	2.0	0.81	(0.66-0.98)	0.0279
Recipient ethnicity (reference: non-Hispanic, 86.1% of patients)				
Hispanic	13.9	0.73	(0.68-0.80)	<.0001
Primary cause of ESRD (reference: glomerulonephritis, 23.8% of patients)				
Diabetes	26.5	1.23	(1.14-1.31)	<.0001
Hypertension	23.1	1.13	(1.05-1.21)	0.0007
Cystic kidney disease	8.1	0.71	(0.64-0.80)	<.0001
Other	18.6	1.02	(0.94-1.10)	0.6014
Pre-transplant hepatitis B & C serology (reference: negative/unknown)				
Hep. B Core Ab+	9.0	0.94	(0.87-1.03)	0.1897
Hep. B Surface Ag+	2.1	1.12	(0.95-1.32)	0.1678
Hep. C Ab+	6.3	1.46	(1.34-1.60)	<.0001
Education level (reference: <college, 66.4% of patients)				
College+	12.4	0.92	(0.85-1.00)	0.0477
Unknown	21.2	1.05	(0.99-1.11)	0.1398
Employment status (reference: unable to work, 34.2% of patients)				
Able to work	42.3	0.83	(0.78-0.87)	<.0001
Unknown	23.5	0.93	(0.87-1.00)	0.0436
Primary payor (reference: non-Medicare, 21.7% of patients)				
Medicare	78.3	1.01	(0.95-1.08)	0.7742
Prior dialysis time (years) (reference: <1, 7.7% of patients)				
None (preemptive)	2.7	0.99	(0.82-1.20)	0.9243
1-<2	15.7	1.16	(1.04-1.29)	0.0103
2-<3	18.2	1.18	(1.06-1.32)	0.0025
3+	55.4	1.26	(1.14-1.40)	<.0001
Unknown	0.2	0.71	(0.37-1.37)	0.3044
Donor age (years) (reference: 18-34, 28.2% of patients)				
0-17	14.9	1.09	(0.99-1.19)	0.0668
35-49	28.8	1.24	(1.16-1.34)	<.0001
50-64	23.8	1.46	(1.33-1.59)	<.0001
65+	4.3	1.86	(1.62-2.14)	<.0001
Unknown	0.1	2.57	(1.35-4.88)	0.0039
Donor gender (reference: female, 41.0% of patients)				
Male	59.0	0.95	(0.90-1.00)	0.0493
Donor race (reference: white, 83.2% of patients)				
Black	11.4	1.14	(1.06-1.22)	0.0006
Asian	1.8	0.96	(0.79-1.17)	0.6919
Other/Unknown	3.6	0.97	(0.84-1.13)	0.7236
Donor cause of death (reference: non-trauma, 50.1% of patients)				
Trauma	49.9	0.94	(0.89-1.00)	0.0337

Table F.25

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=31,312)

	Percent of patients	All-cause graft failure		P-value
		Haz. ratio	95% CI	
HLA mismatches (reference: 3, 16.7% of patients)				
0	11.69	0.8	(0.75-0.92)	0.0
1	2.5	1.00	(0.86-1.17)	0.9704
2	7.1	0.95	(0.86-1.05)	0.3303
4	23.8	1.06	(0.99-1.15)	0.1113
5	23.7	1.15	(1.07-1.24)	0.0002
6	12.2	1.22	(1.12-1.33)	<.0001
Unknown	2.2	0.96	(0.82-1.12)	0.5812
Cold ischemia time (hours) (reference: 0-12, 20.7% of patients)				
13-24	47.0	1.07	(1.00-1.14)	0.0498
25-36	16.4	1.16	(1.07-1.25)	0.0003
37+	2.4	1.27	(1.10-1.46)	0.0012
Unknown	13.6	1.04	(0.96-1.13)	0.3533
Donor documented history of:				
Diabetes	4.4	1.14	(1.03-1.26)	0.0154
Hypertension	21.0	1.16	(1.08-1.24)	<.0001
Expanded Criteria Donor (reference: non-ECD, 82.6% of patients)				
ECD	17.4	1.11	(1.01-1.23)	0.0320
Body surface area matching (reference: R&D, 85.0% of patients)				
R 1.6-2.2 m ² , D<1.6m ²	10.8	1.14	(1.05-1.24)	0.0026
R>2.2m ² , D<1.6m ²	1.6	1.37	(1.15-1.63)	0.0003
Unknown	2.7	0.88	(0.68-1.13)	0.3013
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m ² , 35.0% of patients)				
<18.5 kg/m ²	3.7	1.08	(0.94-1.23)	0.2923
25.0-29.9 kg/m ²	32.8	1.01	(0.95-1.07)	0.8549
30.0-34.9 kg/m ²	18.3	1.13	(1.05-1.21)	0.0007
≥35.0 kg/m ²	8.2	1.19	(1.09-1.30)	0.0002
Unknown	1.9	1.21	(0.90-1.62)	0.2194
PRA (reference: ≤50%, 95.9% of patients)				
>50%	4.1	1.24	(1.10-1.40)	0.0005
CMV serology (reference: donor-/recipient-, 15.0% of patients)				
Donor-/Recipient+	22.6	1.02	(0.94-1.11)	0.6869
Donor+/Recipient+	39.7	1.03	(0.95-1.11)	0.4655
Donor+/Recipient-	22.6	1.06	(0.98-1.15)	0.1307
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 42.7% of patients)				
Cyclosporine Microemulsion & MMF	26.7	1.12	(1.05-1.19)	0.0005
Tacrolimus & Rapamycin	4.4	1.45	(1.28-1.63)	<.0001
Tacrolimus	4.0	1.34	(1.18-1.51)	<.0001
None listed	3.7	4.21	(3.85-4.60)	<.0001
Other	18.4	1.51	(1.42-1.61)	<.0001

Table F.25

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=31,312)

	Return to dialysis / preemptive retransplant			Death with function		
	Haz. ratio	95% CI	P-value	Haz. ratio	95% CI	P-value
Transplant era (reference: 1999-2001, 45.4% of patients)						
2002-2004	1.0	(0.91-1.06)	1	0.9	(0.79-0.94)	0
Recipient age (years) (reference: 18-34, 13.3% of patients)						
0-17	1.43	(1.16-1.77)	0.0009	0.98	(0.59-1.65)	0.9441
35-49	0.74	(0.67-0.81)	<.0001	1.80	(1.48-2.18)	<.0001
50-64	0.59	(0.54-0.66)	<.0001	3.58	(2.97-4.31)	<.0001
65+	0.61	(0.54-0.70)	<.0001	6.11	(5.03-7.43)	<.0001
Recipient gender (reference: female, 39.3% of patients)						
Male	0.96	(0.90-1.03)	0.2433	1.12	(1.04-1.21)	0.0040
Recipient race (reference: white, 59.5% of patients)						
Black	1.41	(1.30-1.52)	<.0001	0.82	(0.75-0.89)	<.0001
Asian	0.71	(0.59-0.86)	0.0004	0.66	(0.54-0.81)	<.0001
Other/Unknown	0.81	(0.61-1.08)	0.1466	0.77	(0.59-1.01)	0.0567
Recipient ethnicity (reference: non-Hispanic, 86.1% of patients)						
Hispanic	0.82	(0.74-0.92)	0.0004	0.63	(0.56-0.72)	<.0001
Primary cause of ESRD (reference: glomerulonephritis, 23.8% of patients)						
Diabetes	0.83	(0.75-0.91)	0.0001	2.00	(1.79-2.23)	<.0001
Hypertension	0.96	(0.88-1.05)	0.4068	1.49	(1.33-1.68)	<.0001
Cystic kidney disease	0.71	(0.61-0.82)	<.0001	0.78	(0.65-0.94)	0.0075
Other	0.90	(0.82-0.99)	0.0344	1.31	(1.15-1.49)	<.0001
Pre-transplant hepatitis B & C serology (reference: negative/unknown)						
Hep. B Core Ab+	0.92	(0.82-1.03)	0.1463	0.99	(0.87-1.12)	0.8296
Hep. B Surface Ag+	1.01	(0.81-1.26)	0.9439	1.28	(1.01-1.62)	0.0394
Hep. C Ab+	1.44	(1.28-1.63)	<.0001	1.51	(1.32-1.73)	<.0001
Education level (reference: <college, 66.4% of patients)						
College+	0.97	(0.87-1.08)	0.5906	0.86	(0.77-0.97)	0.0129
Unknown	1.08	(0.99-1.17)	0.0716	1.00	(0.92-1.09)	0.9858
Employment status (reference: unable to work, 34.2% of patients)						
Able to work	0.86	(0.80-0.93)	<.0001	0.78	(0.72-0.85)	<.0001
Unknown	0.89	(0.81-0.97)	0.0119	0.99	(0.89-1.10)	0.8022
Primary payor (reference: non-Medicare, 21.7% of patients)						
Medicare	1.11	(1.02-1.21)	0.0152	0.90	(0.82-0.99)	0.0238
Prior dialysis time (years) (reference: <1, 7.7% of patients)						
None (preemptive)	0.90	(0.68-1.20)	0.4686	1.10	(0.84-1.43)	0.5007
1-<2	1.15	(0.99-1.33)	0.0674	1.16	(0.98-1.37)	0.0769
2-<3	1.14	(0.98-1.32)	0.0852	1.23	(1.05-1.45)	0.0113
3+	1.11	(0.97-1.28)	0.1285	1.47	(1.27-1.72)	<.0001
Unknown	0.51	(0.16-1.58)	0.2397	0.87	(0.39-1.98)	0.7459
Donor age (years) (reference: 18-34, 28.2% of patients)						
0-17	1.14	(1.01-1.28)	0.0348	1.04	(0.91-1.19)	0.5951
35-49	1.27	(1.15-1.41)	<.0001	1.21	(1.09-1.35)	0.0004
50-64	1.60	(1.41-1.81)	<.0001	1.30	(1.14-1.49)	0.0001
65+	2.23	(1.85-2.69)	<.0001	1.55	(1.26-1.91)	<.0001
Unknown	3.10	(1.49-6.46)	0.0025	1.35	(0.31-5.83)	0.6889
Donor gender (reference: female, 41.0% of patients)						
Male	0.91	(0.85-0.98)	0.0104	1.00	(0.92-1.08)	0.9020
Donor race (reference: white, 83.2% of patients)						
Black	1.27	(1.16-1.39)	<.0001	0.97	(0.86-1.09)	0.5943
Asian	0.96	(0.75-1.24)	0.7774	0.96	(0.72-1.29)	0.7967
Other/Unknown	1.05	(0.87-1.29)	0.6002	0.89	(0.70-1.13)	0.3311
Donor cause of death (reference: non-trauma, 50.1% of patients)						
Trauma	0.88	(0.82-0.95)	0.0017	1.01	(0.93-1.10)	0.8186

Table F.25

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=31,312)

	Return to dialysis / preemptive retransplant			Death with function		
	Haz. ratio	95% CI	P-value	Haz. ratio	95% CI	P-value
HLA mismatches (reference: 3, 16.7% of patients)						
0	0.8	(0.69-0.91)	0	0.9	(0.75-1.00)	0
1	0.8	(0.64-1.02)	0.1	1.2	(0.99-1.47)	0.1
2	1.01	(0.88-1.17)	0.8497	0.88	(0.75-1.02)	0.0961
4	1.06	(0.96-1.18)	0.2336	1.07	(0.96-1.20)	0.2346
5	1.20	(1.09-1.33)	0.0003	1.10	(0.98-1.23)	0.1179
6	1.31	(1.17-1.47)	<.0001	1.12	(0.98-1.28)	0.0993
Unknown	0.85	(0.68-1.05)	0.1343	1.08	(0.87-1.35)	0.4755
Cold ischemia time (hours) (reference: 0-12, 20.7% of patients)						
13-24	1.16	(1.06-1.27)	0.0017	0.97	(0.88-1.07)	0.5865
25-36	1.26	(1.13-1.40)	<.0001	1.05	(0.94-1.18)	0.4077
37+	1.53	(1.28-1.84)	<.0001	0.97	(0.77-1.22)	0.7917
Unknown	1.07	(0.95-1.21)	0.2443	0.99	(0.88-1.13)	0.9073
Donor documented history of:						
Diabetes	1.18	(1.02-1.35)	0.0213	1.10	(0.94-1.29)	0.2322
Hypertension	1.15	(1.06-1.26)	0.0017	1.16	(1.05-1.28)	0.0044
Expanded Criteria Donor (reference: non-ECD, 82.6% of patients)						
ECD	1.21	(1.06-1.38)	0.0053	1.03	(0.89-1.19)	0.7167
Body surface area matching (reference: R&D, 85.0% of patients)						
R 1.6-2.2 m ² , D<1.6m ²	1.20	(1.08-1.34)	0.0011	1.05	(0.92-1.20)	0.4524
R>2.2m ² , D<1.6m ²	1.40	(1.12-1.75)	0.0033	1.30	(1.00-1.70)	0.0527
Unknown	0.91	(0.66-1.25)	0.5504	0.82	(0.55-1.21)	0.3133
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m ² , 35.0% of patients)						
<18.5 kg/m ²	1.00	(0.84-1.19)	0.9832	1.24	(1.01-1.53)	0.0435
25.0-29.9 kg/m ²	1.08	(0.99-1.17)	0.0761	0.92	(0.84-1.01)	0.0683
30.0-34.9 kg/m ²	1.25	(1.14-1.37)	<.0001	0.98	(0.89-1.09)	0.7537
≥35.0 kg/m ²	1.26	(1.11-1.42)	0.0002	1.10	(0.96-1.26)	0.1860
Unknown	1.31	(0.89-1.93)	0.1681	1.10	(0.69-1.76)	0.6891
PRA (reference: ≤50%, 95.9% of patients)						
>50%	1.29	(1.10-1.51)	0.0015	1.18	(0.98-1.42)	0.0882
CMV serology (reference: donor-/recipient-, 15.0% of patients)						
Donor-/Recipient+	1.03	(0.92-1.15)	0.6080	0.99	(0.88-1.12)	0.8996
Donor+/Recipient+	1.1	(0.96-1.18)	0.3	1.0	(0.88-1.10)	0.8
Donor+/Recipient-	1.0	(0.93-1.16)	0.5	1.1	(0.97-1.24)	0.1
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 42.7% of patients)						
Cyclosporine Microemulsion & MMF	1.1	(0.98-1.17)	0.1	1.2	(1.07-1.28)	0.0
Tacrolimus & Rapamycin	1.5	(1.27-1.73)	<.0001	1.4	(1.17-1.68)	0.0
Tacrolimus	1.5	(1.30-1.80)	<.0001	1.1	(0.90-1.34)	0.4
None listed	4.6	(4.12-5.20)	<.0001	3.7	(3.21-4.25)	<.0001
Other	1.6	(1.49-1.78)	<.0001	1.4	(1.25-1.53)	<.0001

Table F.26

Risk factors for graft failure: living donor transplants, 1999-2004 (n=15,588)

	Percent of patients	All-cause graft failure		P-value
		Haz. ratio	95% CI	
Transplant era (reference: 1999-2001, 41.6% of patients)				
2002-2004	58.4	0.89	(0.80-1.00)	0.0446
Donor relationship (reference: related, 63.7% of patients)				
Distant/unrelated	36.1	1.07	(0.94-1.20)	0.3143
Unknown	0.1	1.28	(0.53-3.11)	0.5842
Recipient age (years) (reference: 18-34, 22.1% of patients)				
0-17	4.5	1.03	(0.80-1.33)	0.8052
35-49	29.0	0.80	(0.70-0.91)	0.0009
50-64	31.5	0.92	(0.80-1.05)	0.1927
65+	12.8	1.16	(0.98-1.37)	0.0892
Recipient gender (reference: female, 41.2% of patients)				
Male	58.8	0.94	(0.85-1.03)	0.1826
Recipient race (reference: white, 76.5% of patients)				
Black	17.8	1.20	(0.94-1.54)	0.1370
Asian	3.8	0.58	(0.37-0.89)	0.0121
Other/Unknown	1.9	0.78	(0.53-1.15)	0.2127
Recipient ethnicity (reference: non-Hispanic, 85.2% of patients)				
Hispanic	14.8	0.79	(0.68-0.91)	0.0012
Primary cause of ESRD (reference: glomerulonephritis, 26.0% of patients)				
Diabetes	25.1	1.15	(1.01-1.31)	0.0298
Hypertension	16.9	0.92	(0.80-1.06)	0.2347
Cystic kidney disease	7.4	0.69	(0.55-0.86)	0.0011
Other	24.6	0.88	(0.77-1.01)	0.0602
Pre-transplant hepatitis B & C serology (reference: negative/unknown)				
Hep. B Core Ab+	6.1	0.92	(0.75-1.12)	0.3845
Hep. B Surface Ag+	1.5	0.97	(0.65-1.44)	0.8599
Hep. C Ab+	3.1	1.24	(0.98-1.57)	0.0724
Education level (reference: <college, 64.9% of patients)				
College+	15.7	0.83	(0.72-0.96)	0.0111
Unknown	19.5	0.95	(0.84-1.07)	0.3626
Employment status (reference: unable to work, 28.4% of patients)				
Able to work	49.4	0.82	(0.73-0.91)	0.0002
Unknown	22.3	0.97	(0.85-1.11)	0.6389
Primary payor (reference: non-Medicare, 39.4% of patients)				
Medicare	60.6	1.06	(0.96-1.18)	0.2404
Prior dialysis time (years) (reference: <1, 30.7% of patients)				
None (preemptive)	13.3	0.75	(0.63-0.90)	0.0020
1-<2	24.8	1.18	(1.04-1.33)	0.0097
2-<3	12.7	1.27	(1.10-1.48)	0.0012
3+	17.8	1.34	(1.17-1.53)	<.0001
Unknown	0.7	0.97	(0.53-1.77)	0.9266
Donor age (years) (reference: <35, 34.0% of patients)				
35-49	46.8	1.22	(1.10-1.36)	0.0003
50-64	18.1	1.28	(1.11-1.46)	0.0004
65+	1.0	1.50	(1.00-2.25)	0.0500
Unknown	0.0	n/a	n/a	n/a
Donor gender (reference: female, 59.2% of patients)				
Male	40.8	0.85	(0.77-0.93)	0.0006
Donor race (reference: white, 77.6% of patients)				
Black	15.7	1.06	(0.82-1.37)	0.6609
Asian	2.3	0.70	(0.39-1.27)	0.2424
Other/Unknown	4.4	1.38	(1.06-1.80)	0.0153

Table F.26

Risk factors for graft failure: living donor transplants, 1999-2004 (n=15,588)

	Percent of patients	All-cause graft failure		
		Haz. ratio	95% CI	P-value
HLA mismatches (reference: 3, 30.2% of patients)				
0	9.47	0.6 (0.47-0.69)	<.0001	
1	6.5	0.85 (0.69-1.04)		0.1054
2	19.7	0.86 (0.75-0.97)		0.0180
4	11.6	0.90 (0.76-1.07)		0.2341
5	13.8	1.09 (0.93-1.27)		0.3136
6	7.3	1.05 (0.86-1.28)		0.6513
Unknown	1.5	1.19 (0.88-1.60)		0.2593
Body surface area matching (reference: R&D, 70.3% of patients)				
R 1.6-2.2 m2, D<1.6m2	4.7	1.09 (0.88-1.34)		0.4507
R>2.2m2, D<1.6m2	0.5	1.02 (0.57-1.82)		0.9408
Unknown	24.5	1.04 (0.93-1.16)		0.5364
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m2, 36.6% of patients)				
<18.5 kg/m2	5.1	1.17 (0.94-1.45)		0.1645
25.0-29.9 kg/m2	30.5	0.98 (0.87-1.10)		0.7197
30.0-34.9 kg/m2	16.8	1.18 (1.04-1.35)		0.0133
≥35.0 kg/m2	7.6	1.54 (1.31-1.81)		<.0001
Unknown	3.5	0.90 (0.69-1.17)		0.4209
PRA (reference: ≤50, 97.7% of patients)				
>50%	2.3	1.26 (0.96-1.66)		0.1002
CMV serology (reference: donor-/recipient-, 26.1% of patients)				
Donor-/Recipient+	23.2	1.18 (1.03-1.34)		0.0158
Donor+/Recipient-	34.8	1.05 (0.93-1.19)		0.4315
Donor+/Recipient+	15.9	1.11 (0.96-1.28)		0.1522
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 43.2% of patients)				
Cyclosporine Microemulsion & MMF	27.2	0.95 (0.85-1.07)		0.4258
Tacrolimus & Rapamycin	5.2	1.05 (0.83-1.33)		0.6869
Tacrolimus	3.8	1.13 (0.88-1.44)		0.3507
None listed	3.5	3.98 (3.35-4.72)		<.0001
Other	17.1	1.63 (1.44-1.84)		<.0001

Table F.26

Risk factors for graft failure: living donor transplants, 1999-2004 (n=15,588)

	Return to dialysis / preemptive retransplant			Death with function		
	Haz. ratio	95% CI	P-value	Haz. ratio	95% CI	P-value
Transplant era (reference: 1999-2001, 41.6% of patients)						
2002-2004	0.9	(0.81-1.08)	0.3	0.8	(0.71-1.00)	0.0
Donor relationship (reference: related, 63.7% of patients)						
Distant/unrelated	1.09	(0.93-1.28)	0.2910	1.03	(0.85-1.25)	0.7633
Unknown	0.41	(0.06-2.96)	0.3797	2.47	(0.90-6.76)	0.0782
Recipient age (years) (reference: 18-34, 22.1% of patients)						
0-17	1.13	(0.85-1.51)	0.3871	0.80	(0.44-1.45)	0.4554
35-49	0.69	(0.59-0.81)	<.0001	1.36	(1.03-1.79)	0.0302
50-64	0.48	(0.41-0.58)	<.0001	2.84	(2.21-3.66)	<.0001
65+	0.42	(0.32-0.54)	<.0001	4.37	(3.29-5.81)	<.0001
Recipient gender (reference: female, 41.2% of patients)						
Male	0.82	(0.73-0.93)	0.0019	1.12	(0.97-1.30)	0.1256
Recipient race (reference: white, 76.5% of patients)						
Black	1.28	(0.94-1.73)	0.1219	1.12	(0.74-1.68)	0.5939
Asian	0.56	(0.32-0.99)	0.0468	0.59	(0.30-1.14)	0.1163
Other/Unknown	0.99	(0.62-1.59)	0.9640	0.55	(0.28-1.07)	0.0796
Recipient ethnicity (reference: non-Hispanic, 85.2% of patients)						
Hispanic	0.86	(0.72-1.03)	0.1079	0.68	(0.54-0.85)	0.0009
Primary cause of ESRD (reference: glomerulonephritis, 26.0% of patients)						
Diabetes	0.74	(0.62-0.88)	0.0005	2.14	(1.74-2.63)	<.0001
Hypertension	0.83	(0.69-0.99)	0.0353	1.22	(0.95-1.56)	0.1169
Cystic kidney disease	0.72	(0.54-0.95)	0.0191	0.74	(0.50-1.08)	0.1153
Other	0.71	(0.60-0.84)	<.0001	1.37	(1.08-1.72)	0.0085
Pre-transplant hepatitis B & C serology (reference: negative/unknown)						
Hep. B Core Ab+	0.88	(0.68-1.14)	0.3468	0.98	(0.73-1.33)	0.9166
Hep. B Surface Ag+	0.84	(0.49-1.46)	0.5375	1.13	(0.63-2.01)	0.6823
Hep. C Ab+	1.28	(0.94-1.74)	0.1137	1.20	(0.84-1.73)	0.3181
Education level (reference: <college, 64.9% of patients)						
College+	0.92	(0.76-1.10)	0.3603	0.73	(0.58-0.91)	0.0053
Unknown	0.91	(0.78-1.07)	0.2511	1.00	(0.84-1.19)	0.9920
Employment status (reference: unable to work, 28.4% of patients)						
Able to work	0.78	(0.68-0.90)	0.0004	0.85	(0.72-1.01)	0.0620
Unknown	0.96	(0.80-1.14)	0.6070	0.98	(0.79-1.22)	0.8795
Primary payor (reference: non-Medicare, 39.4% of patients)						
Medicare	1.06	(0.92-1.21)	0.4221	1.09	(0.93-1.28)	0.3109
Prior dialysis time (years) (reference: <1, 30.7% of patients)						
None (preemptive)	0.87	(0.69-1.10)	0.2384	0.62	(0.46-0.83)	0.0014
1-<2	1.08	(0.92-1.27)	0.3296	1.29	(1.06-1.56)	0.0092
2-<3	1.12	(0.92-1.36)	0.2572	1.50	(1.20-1.87)	0.0004
3+	1.14	(0.96-1.37)	0.1419	1.64	(1.32-2.03)	<.0001
Unknown	0.79	(0.33-1.92)	0.5998	1.29	(0.57-2.91)	0.5484
Donor age (years) (reference: <35, 34.0% of patients)						
35-49	1.16	(1.01-1.33)	0.0384	1.32	(1.11-1.57)	0.0015
50-64	1.28	(1.07-1.53)	0.0066	1.29	(1.04-1.59)	0.0207
65+	2.09	(1.18-3.68)	0.0111	1.13	(0.63-2.02)	0.6753
Unknown	0.00	(0.00-0.00)	0.0000	0.00	(0.00-0.00)	0.0000
Donor gender (reference: female, 59.2% of patients)						
Male	0.78	(0.69-0.89)	0.0001	0.95	(0.82-1.10)	0.4863
Donor race (reference: white, 77.6% of patients)						
Black	1.26	(0.92-1.74)	0.1484	0.75	(0.48-1.16)	0.1893
Asian	0.55	(0.24-1.29)	0.1691	0.85	(0.37-1.98)	0.7082
Other/Unknown	1.51	(1.09-2.09)	0.0128	1.21	(0.78-1.89)	0.3991

Table F.26

Risk factors for graft failure: living donor transplants, 1999-2004 (n=15,588)

	All-cause graft failure			Death with function		
	Haz. ratio	95% CI	P-value	Haz. ratio	95% CI	P-value
HLA mismatches (reference: 3, 30.2% of patients)						
0	1	(0.40-0.67)	<.0001	1	(0.47-0.88)	0
1	0.8	(0.61-1.05)	0.1	0.9	(0.66-1.20)	0.4
2	0.87	(0.73-1.03)	0.1105	0.84	(0.69-1.02)	0.0798
4	0.90	(0.72-1.13)	0.3718	0.90	(0.69-1.17)	0.4151
5	1.11	(0.90-1.36)	0.3200	1.05	(0.81-1.34)	0.7256
6	1.06	(0.82-1.37)	0.6494	1.01	(0.74-1.38)	0.9411
Unknown	1.21	(0.83-1.77)	0.3135	1.11	(0.69-1.80)	0.6723
Body surface area matching (reference: R&D, 70.3% of patients)						
R 1.6-2.2 m2, D<1.6m2	1.07	(0.81-1.43)	0.6266	1.11	(0.80-1.53)	0.5313
R>2.2m2, D<1.6m2	0.87	(0.39-1.97)	0.7401	1.20	(0.53-2.71)	0.6654
Unknown	1.08	(0.94-1.25)	0.2766	0.97	(0.81-1.15)	0.6904
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m2, 36.6% of patients)						
<18.5 kg/m2	0.99	(0.75-1.31)	0.9516	1.62	(1.14-2.31)	0.0076
25.0-29.9 kg/m2	1.04	(0.89-1.21)	0.6575	0.88	(0.74-1.06)	0.1772
30.0-34.9 kg/m2	1.22	(1.02-1.45)	0.0302	1.08	(0.88-1.32)	0.4588
≥35.0 kg/m2	1.65	(1.34-2.03)	<.0001	1.33	(1.03-1.72)	0.0318
Unknown	0.81	(0.56-1.16)	0.2475	0.98	(0.66-1.46)	0.9329
PRA (reference: ≤50, 97.7% of patients)						
>50%	1.35	(0.95-1.91)	0.0919	1.15	(0.73-1.82)	0.5533
CMV serology (reference: donor-/recipient-, 26.1% of patients)						
Donor-/Recipient+	1.11	(0.93-1.33)	0.2315	1.24	(1.01-1.51)	0.0375
Donor+/Recipient-	1.05	(0.89-1.23)	0.5718	1.07	(0.88-1.30)	0.5200
Donor+/Recipient+	1.09	(0.91-1.32)	0.3359	1.14	(0.90-1.44)	0.2802
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 43.2% of patients)						
Cyclosporine Microemulsion & MMF	0.89	(0.76-1.05)	0.1674	1.01	(0.84-1.20)	0.9500
Tacrolimus & Rapamycin	1.07	(0.79-1.46)	0.6676	1.01	(0.70-1.46)	0.9703
Tacrolimus	1.14	(0.83-1.58)	0.4206	1.10	(0.75-1.62)	0.6243
None listed	4.74	(3.83-5.88)	<.0001	3.00	(2.23-4.02)	<.0001
Other	1.77	(1.51-2.08)	<.0001	1.44	(1.19-1.75)	0.0002