



F

TRANSPLANTATION:
OUTCOMES



For survival probabilities, first transplant, see Section I: Patient Survival

F.1 . 145
90-day graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.2 . 147
One-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.3 . 149
Two-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.4 . 151
Three-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.5 . 153
Five-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.6 . 154
Ten-year graft survival probabilities: all deceased donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.7 . 155
90-day graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.8 . 157
One-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.9 . 159
Two-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.10 . 161
Three-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.11 . 163
Five-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.12 . 164
Ten-year graft survival probabilities: all living donor transplants
by age, gender, race/ethnicity, primary diagnosis, & transplant number

F.13 . 165
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 . 167
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 . 169
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 . 171
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 . 172
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 . 173
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 . 174
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 . 176
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 . 178
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 . 180
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 . 181
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 . 182
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 . 183
Risk factors for graft failure: deceased donor transplants, 1999-2004

F.26 . 187
Risk factors for graft failure: living donor transplants, 1999-2004

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
<1	85.7	85.7	88.9	66.7	63.6	81.8	85.7	75.0	53.3	66.7	71.4	77.8
1-4	75.0	90.9	76.2	88.0	72.0	61.8	80.0	83.3	73.0	80.0	69.1	78.6
5-9	84.4	92.9	84.4	83.3	89.4	83.6	75.0	80.6	79.1	83.1	68.1	82.8
10-14	87.5	86.5	81.3	86.1	88.9	89.0	85.4	85.2	78.3	82.6	81.7	89.4
15-19	91.2	85.6	87.3	83.4	85.9	85.0	89.1	85.7	80.2	86.0	85.0	84.3
20-29	85.4	85.6	84.1	84.6	83.7	84.7	84.3	86.8	82.8	85.9	87.1	88.6
30-39	83.9	85.7	81.7	83.7	85.3	86.3	85.2	85.0	85.1	84.8	86.2	89.7
40-49	81.7	85.7	82.9	81.8	83.3	85.2	84.9	82.8	83.2	86.4	86.3	87.7
50-59	80.6	81.2	79.5	80.7	86.9	82.2	84.2	84.2	84.4	84.8	87.4	87.7
60-64	80.8	84.4	76.3	86.5	81.8	80.8	83.9	86.3	82.0	85.8	86.3	88.3
65-69	100.0	88.9	100.0	80.0	92.0	97.4	87.3	79.3	81.0	86.1	86.3	86.5
70-79	100.0	100.0	.	100.0	83.3	83.3	75.0	82.4	75.6	76.5	84.6	88.9
80+	.	.	.	.	100.0	100.0	.	.	100.0	100.0	100.0	100.0
Male	83.5	85.1	81.7	83.1	84.5	85.7	85.0	84.5	83.2	85.1	86.4	88.3
Female	84.3	85.4	83.6	83.0	85.0	83.2	84.3	84.5	83.6	85.7	86.0	88.0
White	85.1	86.3	83.5	84.0	84.8	85.1	85.0	84.3	83.5	85.6	86.2	88.4
Black	79.2	82.3	79.1	80.3	83.0	83.6	83.3	84.8	81.8	83.7	85.8	87.1
Other race	84.8	79.3	80.4	80.6	94.2	85.6	90.7	86.6	89.0	90.5	88.3	90.4
†Hispanic												
†Non-Hispanic												
Diabetes	82.5	86.8	86.0	85.0	87.6	86.8	84.2	84.8	83.4	87.0	86.0	88.5
Hypertension	84.5	84.9	79.3	84.0	85.5	85.2	85.2	85.1	84.6	85.0	88.0	89.2
Glomerulonephritis	87.2	86.8	82.2	81.4	82.8	84.6	85.2	84.2	82.4	84.3	85.8	88.7
Other cause	81.9	83.7	82.1	83.1	84.6	83.6	84.6	84.2	83.5	85.3	85.7	86.8
First transplant	84.5	86.1	83.0	84.5	86.5	86.1	86.0	85.5	84.8	86.3	86.9	88.9
Subsequent transplants	78.0	78.0	77.7	73.6	75.0	78.1	77.7	77.9	74.7	79.6	82.3	83.5
All	83.8	85.2	82.4	83.1	84.7	84.8	84.8	84.5	83.4	85.4	86.2	88.2
ADJUSTED												
0-19	88.0	86.2	83.9	83.3	85.2	83.2	85.5	83.7	77.8	84.0	79.9	84.8
20-44	83.5	84.9	82.2	83.0	84.5	85.6	85.0	84.8	83.9	85.6	86.3	89.1
45-64	78.7	82.1	79.8	81.2	83.7	82.7	83.8	84.2	83.2	84.7	86.9	87.3
65-74	100.0	90.0	100.0	80.1	89.1	97.6	83.9	78.2	79.1	83.4	84.9	86.0
75+	.	.	.	100.0	100.0	71.2	.	100.0	72.8	84.4	88.8	100.0
Male	81.6	83.4	79.7	81.6	83.3	84.8	84.2	83.9	82.5	84.3	85.9	88.0
Female	82.0	83.1	81.8	81.0	83.6	81.9	83.2	83.3	82.5	84.8	85.1	87.4
White	83.0	84.3	81.5	82.1	83.4	83.9	83.8	83.2	82.6	84.7	85.7	88.0
Black	78.4	81.7	78.3	79.9	82.7	83.3	83.3	85.0	81.6	83.5	85.8	87.1
Other race	81.1	74.5	75.6	75.1	93.1	83.1	88.6	83.9	86.9	89.4	86.8	89.4
Diabetes	80.1	84.6	83.2	82.4	85.5	85.0	82.0	83.2	81.7	85.4	84.6	87.5
Hypertension	85.8	85.6	80.9	85.4	87.0	86.4	86.7	86.6	86.2	86.3	89.1	90.2
Glomerulonephritis	86.2	85.7	80.9	80.2	82.1	83.8	84.4	83.5	81.7	83.6	85.4	88.3
Other cause	80.3	82.3	80.7	81.8	83.4	82.7	83.8	83.3	82.4	84.4	84.9	86.1
First transplant	82.4	84.2	81.0	82.8	85.1	85.0	85.0	84.7	83.9	85.5	86.3	88.6
Subsequent transplants	76.5	76.5	76.4	72.2	73.4	76.6	76.5	76.8	73.1	78.0	80.9	82.2
All	81.7	83.2	80.4	81.3	83.4	83.7	83.8	83.6	82.4	84.5	85.6	87.7

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.

on our website & CD

90-day probability of death with functioning graft: all transplants, deceased donors (F.1.1).

Table F.1 (continued)

90-day graft survival probabilities: all deceased donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	71.4	62.5	91.7	100.0	75.0	87.5	100.0	90.0	66.7	100.0	100.0	100.0
1-4	90.6	89.7	100.0	83.3	83.8	75.0	95.8	87.5	88.0	95.8	83.3	96.6
5-9	88.6	80.3	89.8	89.5	91.3	95.2	90.8	84.2	93.2	98.2	94.0	96.9
10-14	86.3	93.9	87.4	87.3	93.9	95.2	93.0	94.1	97.8	93.3	96.9	96.5
15-19	85.9	86.2	88.9	90.7	90.5	94.4	88.9	92.9	92.2	94.0	94.3	95.7
20-29	88.7	88.0	90.7	92.4	91.3	95.0	93.7	94.2	93.8	93.9	95.5	94.1
30-39	90.0	88.7	90.0	92.1	92.7	93.3	94.2	93.2	94.1	94.6	94.4	94.4
40-49	88.7	89.1	90.5	91.0	92.7	93.6	94.1	94.9	93.9	94.7	94.2	95.3
50-59	88.2	88.1	89.3	90.6	91.5	92.1	92.2	92.3	93.1	93.6	92.9	93.9
60-64	89.2	89.1	89.9	91.3	91.6	93.6	92.6	90.2	91.6	92.9	92.4	91.1
65-69	88.0	90.7	88.7	87.5	88.7	89.4	92.2	90.8	89.9	89.5	92.8	92.7
70-79	84.4	81.9	90.5	89.9	89.8	90.4	89.3	87.4	91.6	90.5	91.1	92.5
80+	100.0	100.0	100.0	100.0	100.0	100.0	87.5	100.0	85.7	100.0	87.5	100.0
Male	88.9	88.9	90.5	91.1	91.6	93.8	93.2	93.4	93.6	93.5	93.6	93.9
Female	88.6	88.0	89.2	91.1	92.2	91.8	93.1	92.0	92.6	94.0	93.5	94.2
White	89.0	88.5	89.7	90.7	92.2	93.0	93.0	93.1	93.5	93.8	94.0	94.7
Black	87.6	87.8	90.5	91.7	90.6	92.6	93.0	92.3	91.9	93.2	92.5	92.3
Other race	90.4	92.8	90.8	93.3	94.2	95.8	95.7	92.9	95.1	94.8	93.9	94.7
†Hispanic					93.8	94.0	94.4	94.1	94.8	94.7	95.0	95.3
†Non-Hispanic					91.7	92.9	93.0	92.7	92.9	93.5	93.3	93.8
Diabetes	88.1	90.1	90.7	91.7	92.8	92.9	93.4	92.7	93.7	94.0	93.6	93.9
Hypertension	88.8	88.5	90.5	91.2	92.5	92.7	94.1	93.3	91.8	93.3	92.6	93.6
Glomerulonephritis	89.7	87.7	89.6	91.1	91.9	93.6	92.9	93.4	93.8	93.7	94.0	94.1
Other cause	88.4	87.7	89.2	90.4	90.4	92.8	92.6	92.3	92.9	93.6	93.9	94.2
First transplant	89.4	89.3	90.6	91.7	92.2	93.4	93.5	93.1	93.6	94.0	93.6	94.2
Subsequent transplants	84.6	82.8	85.8	87.2	89.5	90.5	90.9	91.0	90.4	91.5	93.1	92.0
All	88.8	88.5	90.0	91.1	91.9	93.0	93.2	92.9	93.2	93.7	93.6	94.0
ADJUSTED												
0-19	85.9	86.2	89.6	89.4	90.4	92.8	91.4	91.6	93.0	94.6	94.0	96.1
20-44	89.4	88.8	90.7	92.1	92.8	94.0	94.5	94.0	94.1	94.6	95.0	94.9
45-64	88.1	88.2	89.7	91.0	91.7	92.9	92.7	92.7	93.2	94.0	93.1	93.9
65-74	86.9	88.6	88.9	87.9	89.0	89.6	91.8	90.0	90.6	90.1	92.3	92.8
75+	85.3	74.9	87.4	94.3	94.5	86.9	84.0	86.0	89.5	86.9	90.9	93.1
Male	88.6	88.7	90.5	91.2	91.7	94.0	93.5	93.7	93.9	93.9	94.1	94.4
Female	88.0	87.5	89.0	91.0	92.2	91.7	93.1	92.0	92.7	94.1	93.7	94.5
White	88.8	88.3	89.7	90.8	92.3	93.1	93.3	93.3	93.8	94.2	94.5	95.1
Black	87.5	87.8	90.6	91.8	90.6	92.7	93.2	92.4	92.1	93.4	92.6	92.6
Other race	89.6	92.1	90.6	92.6	94.4	95.5	95.5	92.9	95.1	94.8	94.0	95.0
Diabetes	87.1	89.4	90.3	91.4	92.6	92.8	93.5	92.8	93.9	94.2	93.9	94.4
Hypertension	89.9	89.6	91.6	92.2	93.3	93.6	94.9	94.2	93.0	94.3	93.7	94.6
Glomerulonephritis	89.4	87.2	89.5	91.1	91.9	93.6	92.9	93.4	93.9	93.9	94.2	94.4
Other cause	87.8	87.0	88.9	90.2	90.2	92.7	92.4	92.1	92.9	93.5	94.0	94.3
First transplant	89.1	89.1	90.7	91.8	92.4	93.6	93.8	93.4	93.9	94.4	94.1	94.8
Subsequent transplants	83.5	81.7	84.9	86.3	88.7	89.9	90.4	90.5	90.0	91.1	92.7	91.8
All	88.4	88.2	89.9	91.1	91.9	93.1	93.4	93.0	93.4	94.0	93.9	94.4

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.

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
<1	57.1	71.4	88.9	60.0	54.6	77.3	71.4	70.0	33.3	66.7	57.1	66.7
1-4	75.0	72.7	66.7	68.0	64.0	52.9	63.3	72.2	56.8	73.3	59.5	67.9
5-9	68.8	78.6	68.9	69.1	78.7	76.1	61.7	65.3	73.1	79.2	62.5	79.7
10-14	69.4	75.7	71.4	66.3	75.9	79.8	74.8	77.3	70.0	71.6	74.0	80.9
15-19	78.8	73.4	75.2	71.4	73.2	70.5	77.8	75.0	71.3	74.5	77.9	77.8
20-29	68.6	69.4	72.3	71.7	72.1	76.1	73.1	77.4	75.2	80.6	80.8	83.6
30-39	65.1	65.8	67.1	66.2	73.2	76.1	74.4	75.3	77.2	78.7	80.5	84.8
40-49	61.9	65.7	66.3	65.1	68.3	73.7	72.3	71.6	75.3	78.6	79.1	82.1
50-59	60.8	59.5	60.4	61.5	72.7	68.6	72.4	73.8	75.9	77.9	79.4	81.8
60-64	57.7	46.7	55.9	66.2	72.0	69.5	73.3	72.1	75.7	77.3	78.5	82.5
65-69	72.7	66.7	60.0	60.0	56.0	66.7	72.7	61.3	68.5	75.2	76.1	79.3
70-79	100.0	50.0	.	100.0	33.3	33.3	75.0	82.4	65.9	73.5	73.9	79.4
80+	.	.	.	.	100.0	100.0	.	.	100.0	100.0	.	100.0
Male	65.1	66.4	66.5	66.9	71.7	74.1	73.3	73.7	74.7	78.3	79.0	82.7
Female	66.2	66.3	69.1	66.4	71.5	73.1	73.1	74.4	76.0	78.5	79.5	82.6
White	67.7	69.3	69.0	68.8	72.5	74.6	74.2	74.2	76.1	79.2	79.6	83.1
Black	58.6	56.2	62.5	59.4	67.3	70.4	69.3	72.7	71.4	74.0	77.3	80.2
Other race	60.8	65.5	66.0	69.8	82.6	78.1	79.1	77.7	81.5	86.0	82.4	87.5
†Hispanic												
†Non-Hispanic												
Diabetes	62.1	67.6	68.8	64.1	71.3	75.9	72.6	73.9	75.0	80.9	78.3	82.3
Hypertension	64.8	64.6	64.7	66.8	71.1	71.6	74.0	72.5	76.0	77.6	79.4	83.4
Glomerulonephritis	69.4	67.6	67.9	68.5	72.0	75.6	74.2	74.6	75.2	77.9	79.9	83.2
Other cause	64.2	65.7	67.6	66.3	71.6	71.8	72.5	74.2	75.1	77.3	79.0	81.9
First transplant	66.5	67.6	68.3	68.3	73.5	75.8	74.7	74.9	76.7	79.5	80.0	83.4
Subsequent transplants	57.6	57.4	60.6	55.9	61.3	63.3	65.2	67.8	66.0	71.1	74.6	77.8
All	65.5	66.4	67.4	66.7	71.6	73.7	73.2	74.0	75.3	78.4	79.2	82.6
ADJUSTED												
0-19	72.4	72.9	72.1	68.3	72.8	71.8	73.4	73.1	68.5	74.4	72.6	78.0
20-44	64.6	65.6	67.6	66.7	71.6	75.8	73.6	74.8	75.8	79.3	79.9	83.7
45-64	56.7	58.7	61.4	62.5	69.5	69.6	71.5	72.3	75.0	77.0	79.1	81.7
65-74	74.7	60.8	56.4	60.9	50.2	61.4	71.2	61.8	66.2	73.0	74.1	77.9
75+	.	.	.	100.0	51.4	71.2	.	100.0	72.8	84.4	55.4	100.0
Male	61.2	62.7	63.3	64.0	69.5	72.6	71.7	72.4	73.6	77.2	78.3	82.1
Female	62.0	62.0	66.1	63.2	69.0	71.0	71.4	72.5	74.5	77.2	78.2	81.7
White	63.4	65.3	65.6	65.4	69.9	72.6	72.2	72.4	74.7	78.1	78.8	82.5
Black	57.1	54.7	61.3	58.7	66.7	69.9	69.1	72.4	71.2	73.8	77.1	80.0
Other race	53.6	58.5	58.8	62.0	79.7	74.5	74.8	73.5	78.3	84.5	80.4	86.2
Diabetes	56.3	62.5	63.6	59.2	66.7	72.8	69.0	71.1	72.6	78.7	76.1	80.7
Hypertension	66.8	66.1	67.3	69.1	73.9	73.7	76.4	74.6	78.2	79.6	81.2	84.8
Glomerulonephritis	67.2	65.0	65.6	66.3	70.6	74.5	72.6	73.3	74.0	76.9	79.3	82.6
Other cause	61.4	63.0	65.3	63.9	69.6	70.4	71.1	72.8	73.5	76.0	77.9	80.9
First transplant	62.4	63.6	65.2	65.3	71.0	74.0	72.8	73.4	75.5	78.4	79.1	82.8
Subsequent transplants	54.6	54.5	58.1	53.7	59.2	61.2	63.5	66.0	63.8	69.1	72.7	76.2
All	61.4	62.5	64.3	63.7	69.3	72.0	71.5	72.4	73.9	77.1	78.2	81.9

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.

One-year probability of death with functioning graft: all transplants, deceased donors (F.2.1).

on our website & CD

f transplantation: outcomes

Table F.2 (continued)

One-year graft survival probabilities: all deceased donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	71.4	62.5	83.3	75.0	75.0	87.5	100.0	80.0	66.7	80.0	100.0	100.0
1-4	81.3	79.3	96.0	79.2	81.1	75.0	95.8	84.4	80.0	95.8	76.7	93.1
5-9	88.6	75.8	84.8	87.7	85.5	93.6	89.2	79.0	90.9	96.4	91.0	92.3
10-14	82.5	90.2	85.7	83.9	91.8	93.2	90.0	90.7	94.4	87.8	93.9	92.2
15-19	80.1	79.8	80.8	82.3	85.4	90.1	81.5	87.2	87.4	90.7	92.0	90.4
20-29	82.4	82.9	85.5	87.9	87.6	90.0	90.8	90.2	89.7	90.5	90.1	90.2
30-39	83.8	83.0	84.4	87.5	88.9	90.0	90.8	88.9	90.8	91.0	90.5	90.2
40-49	84.2	83.8	84.7	85.8	87.3	89.1	90.8	90.5	89.2	90.4	90.0	91.4
50-59	81.1	81.7	83.0	85.1	86.2	86.9	87.2	86.5	86.7	88.4	88.3	88.8
60-64	81.6	81.6	83.8	83.2	84.7	87.3	84.4	84.0	83.7	86.0	86.8	84.8
65-69	82.9	79.0	79.8	79.9	81.8	82.0	84.0	83.3	82.6	82.8	85.1	87.1
70-79	83.3	68.6	78.6	80.4	83.7	80.1	78.6	79.4	83.1	80.6	82.2	83.7
80+	66.7	100.0	50.0	100.0	100.0	100.0	87.5	80.0	71.4	100.0	75.0	93.3
Male	82.9	82.9	84.1	85.1	86.7	88.8	88.2	87.9	87.7	88.6	88.3	88.5
Female	82.8	81.7	83.7	86.5	87.1	87.3	89.0	87.4	87.8	89.0	89.4	89.9
White	83.3	82.7	83.9	85.4	87.5	88.6	88.9	88.5	88.8	89.5	89.6	90.2
Black	80.4	80.8	83.2	85.6	85.2	86.2	86.8	85.1	84.6	86.7	86.4	86.3
Other race	87.4	86.6	87.0	89.8	87.6	93.0	92.6	89.2	89.8	89.7	90.1	90.2
†Hispanic					89.1	90.6	91.7	90.0	90.1	91.7	92.0	91.4
†Non-Hispanic					86.6	88.0	88.2	87.4	87.4	88.3	88.2	88.7
Diabetes	82.1	83.3	84.3	86.6	87.4	87.7	88.5	88.0	87.4	89.2	88.1	88.4
Hypertension	82.1	82.8	84.2	85.7	87.2	86.3	87.8	87.1	84.6	86.8	87.2	87.8
Glomerulonephritis	84.0	82.5	83.9	85.7	87.0	89.6	89.1	87.7	89.4	89.8	89.9	89.5
Other cause	83.0	81.2	83.4	84.6	85.9	88.9	88.6	87.8	88.7	88.8	89.6	90.2
First transplant	83.4	82.9	84.5	86.3	87.2	88.6	89.0	88.1	88.2	89.3	88.8	89.5
Subsequent transplants	79.1	78.4	80.1	81.2	84.5	85.8	85.7	84.5	84.8	85.0	88.2	85.6
All	82.9	82.4	83.9	85.6	86.9	88.2	88.5	87.7	87.8	88.8	88.7	89.0
ADJUSTED												
0-19	81.1	80.5	83.8	83.4	86.3	89.8	86.7	86.6	88.8	90.7	91.1	91.3
20-44	83.6	83.4	85.3	87.5	88.5	89.9	91.3	89.8	90.4	91.0	91.1	91.1
45-64	81.7	82.0	83.4	85.0	86.2	87.8	87.5	87.2	87.0	88.7	88.4	88.7
65-74	82.5	76.8	79.1	80.0	82.1	81.4	82.8	82.5	83.0	82.6	84.4	86.3
75+	75.5	50.6	68.6	71.5	78.4	77.1	74.9	74.3	77.1	76.5	79.9	83.7
Male	82.5	82.6	84.2	85.2	86.8	89.1	88.6	88.3	88.3	89.3	89.1	89.4
Female	82.0	81.0	83.3	86.2	87.1	87.2	89.0	87.4	88.0	89.3	89.7	90.3
White	83.0	82.4	83.9	85.4	87.6	88.8	89.2	88.9	89.4	90.1	90.3	91.0
Black	80.2	80.8	83.2	85.6	85.2	86.3	86.9	85.3	84.8	87.0	86.7	86.6
Other race	86.3	85.4	86.4	88.9	87.1	92.6	92.3	89.3	89.8	89.6	90.2	90.6
Diabetes	80.6	82.1	83.4	86.0	87.0	87.5	88.4	88.1	87.8	89.6	88.6	89.3
Hypertension	83.8	84.4	85.7	87.1	88.6	87.9	89.3	88.6	86.7	88.7	89.0	89.5
Glomerulonephritis	83.5	81.9	83.8	85.6	86.9	89.6	89.1	87.8	89.5	90.0	90.2	89.9
Other cause	82.0	80.2	83.0	84.2	85.5	88.5	88.4	87.5	88.7	88.7	89.6	90.4
First transplant	83.0	82.7	84.6	86.4	87.4	88.8	89.3	88.5	88.8	89.9	89.6	90.4
Subsequent transplants	77.5	76.9	78.8	79.8	83.4	84.9	84.8	83.6	84.0	84.4	87.6	85.0
All	82.3	82.0	83.8	85.6	86.9	88.3	88.7	87.9	88.2	89.3	89.3	89.8

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.

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
<1	28.6	71.4	88.9	46.7	54.6	68.2	71.4	70.0	33.3	66.7	57.1	66.7
1-4	50.0	72.7	57.1	60.0	60.0	52.9	60.0	66.7	56.8	73.3	57.1	64.3
5-9	59.4	64.3	60.0	64.3	72.3	68.7	53.3	59.7	67.2	75.3	59.7	73.4
10-14	59.7	64.9	65.9	55.5	69.4	66.1	61.8	65.6	60.0	66.1	67.3	74.5
15-19	70.1	64.8	61.8	65.8	66.8	61.8	68.3	67.0	63.7	65.5	71.7	69.2
20-29	60.5	61.5	63.0	63.8	64.5	68.4	65.4	68.9	66.7	74.6	73.4	78.1
30-39	56.1	56.8	56.5	57.7	63.3	67.2	66.1	66.8	70.8	72.5	74.9	80.0
40-49	49.8	57.8	56.8	55.4	60.3	65.8	64.4	64.3	69.1	72.5	73.4	77.4
50-59	50.2	50.0	52.1	49.9	63.9	62.6	65.0	66.1	69.8	71.8	75.3	77.4
60-64	53.9	37.8	49.2	56.8	62.1	59.6	65.9	64.3	69.5	69.0	73.3	78.1
65-69	45.5	55.6	60.0	50.0	52.0	56.4	63.6	56.6	61.9	69.7	72.2	73.7
70-79	50.0	50.0	.	66.7	16.7	33.3	66.7	82.4	63.4	61.8	69.2	69.8
80+	.	.	.	.	.	50.0	.	.	100.0	100.0	.	100.0
Male	55.6	57.6	57.4	57.3	62.7	65.8	65.0	65.1	67.9	71.8	73.3	77.5
Female	55.6	58.0	58.6	58.5	63.8	65.3	65.5	67.6	69.9	72.5	74.2	78.0
White	58.5	61.2	60.3	60.5	64.9	68.2	67.3	67.7	70.9	74.2	74.9	79.1
Black	46.2	45.9	49.7	48.0	55.7	57.4	57.6	59.8	60.2	63.8	69.1	72.0
Other race	49.4	52.9	58.8	62.0	75.4	69.2	72.7	71.0	76.1	79.4	77.1	84.1
†Hispanic												
†Non-Hispanic												
Diabetes	52.5	59.2	57.0	54.1	60.8	68.5	65.2	65.4	68.4	74.7	72.2	77.2
Hypertension	53.4	56.4	54.3	56.6	60.7	59.7	63.6	62.4	67.7	68.7	72.7	76.5
Glomerulonephritis	60.5	59.3	59.3	59.9	64.6	68.0	65.9	67.6	68.9	71.9	74.1	78.5
Other cause	53.9	56.6	58.4	57.9	64.0	64.7	65.4	67.0	69.2	72.1	74.9	78.1
First transplant	56.6	58.8	58.8	59.6	65.1	68.0	67.0	66.9	70.2	73.0	74.6	78.6
Subsequent transplants	47.6	49.0	50.6	45.3	52.3	54.0	54.8	60.8	59.6	66.4	68.3	71.8
All	55.6	57.7	57.8	57.7	63.1	65.6	65.2	66.1	68.7	72.1	73.7	77.7
ADJUSTED												
0-19	62.0	62.8	61.9	60.7	66.6	62.4	63.5	64.9	61.3	68.0	67.3	71.0
20-44	55.0	57.0	57.6	58.1	62.5	67.4	65.6	66.4	69.0	72.9	73.7	78.8
45-64	45.7	49.4	52.4	51.4	61.1	62.4	63.9	64.8	68.6	70.7	74.3	77.0
65-74	43.5	51.3	56.5	47.2	43.6	51.9	61.9	57.7	60.7	66.1	69.8	71.6
75+	.	.	.	100.0	.	44.0	.	100.0	60.0	84.8	57.2	84.7
Male	51.2	53.4	53.8	54.0	60.1	64.0	63.1	63.5	66.6	70.4	72.5	76.7
Female	50.6	53.1	55.0	54.8	60.9	62.9	63.5	65.5	68.0	71.0	72.7	76.9
White	53.5	56.6	56.3	56.5	61.8	65.8	65.0	65.7	69.3	72.9	74.0	78.4
Black	44.6	44.4	48.4	47.2	55.0	56.7	57.3	59.5	60.1	63.5	68.8	71.9
Other race	41.5	44.7	50.9	53.1	71.4	64.4	67.5	65.9	72.2	77.3	74.6	82.4
Diabetes	46.1	53.5	50.9	48.6	55.4	64.6	61.0	62.0	65.6	71.9	69.7	75.3
Hypertension	55.9	58.2	57.5	59.4	64.2	62.4	66.7	65.1	70.4	71.3	75.0	78.4
Glomerulonephritis	58.0	56.3	56.6	57.4	63.0	66.5	64.0	66.0	67.5	70.8	73.4	77.7
Other cause	50.7	53.3	55.9	55.1	61.6	63.1	63.7	65.5	67.3	70.6	73.5	76.9
First transplant	51.9	54.3	55.2	56.0	62.1	65.7	64.9	65.1	68.7	71.6	73.6	77.9
Subsequent transplants	44.4	45.9	47.8	43.0	50.1	51.7	52.9	58.8	57.2	64.1	66.2	69.8
All	50.9	53.3	54.2	54.2	60.4	63.6	63.2	64.2	67.1	70.6	72.6	76.8

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.

on our website & CD

Two-year probability of death with functioning graft: all transplants, deceased donors (F.3.1).

f transplantation: outcomes

Table F.3 (continued)

Two-year graft survival probabilities: all deceased donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	64.3	50.0	83.3	75.0	62.5	62.5	100.0	80.0	66.7	80.0	100.0
1-4	81.3	75.9	92.0	70.8	75.7	71.9	91.7	84.4	76.0	95.8	76.7
5-9	86.4	72.7	84.8	82.5	82.6	91.9	87.7	77.2	88.6	91.1	83.6
10-14	71.3	82.9	79.8	78.0	85.7	88.4	85.0	83.9	92.2	81.1	89.8
15-19	72.8	72.3	70.5	74.3	74.2	83.1	75.9	81.4	74.9	83.1	80.5
20-29	76.4	77.5	80.1	81.7	81.2	84.9	85.2	83.3	82.5	86.5	84.6
30-39	78.6	77.7	79.3	83.4	84.7	84.5	87.3	85.1	84.8	86.3	85.8
40-49	78.8	78.6	79.4	82.0	82.1	84.6	86.1	86.3	84.6	84.9	85.4
50-59	75.2	76.2	77.9	80.7	81.2	81.8	82.3	82.0	81.9	82.5	83.3
60-64	76.2	76.3	77.3	77.7	79.7	82.4	78.8	79.0	79.1	79.7	79.4
65-69	75.3	74.3	72.9	73.4	75.9	74.3	78.8	76.7	76.9	76.7	77.7
70-79	78.1	59.1	72.2	73.2	76.2	73.7	70.4	72.4	75.4	75.8	77.0
80+	66.7	50.0	50.0	100.0	100.0	100.0	62.5	60.0	57.1	100.0	50.0
Male	77.0	77.2	78.4	80.3	81.5	83.1	83.6	83.4	82.4	83.1	82.7
Female	77.5	76.7	78.4	81.8	81.7	83.0	84.1	82.3	82.1	83.5	84.2
White	78.7	78.2	79.4	81.6	83.0	84.2	85.1	84.7	84.3	84.7	84.8
Black	71.2	71.7	75.2	78.0	77.4	79.3	79.3	77.8	76.9	79.3	79.4
Other race	83.1	84.8	81.8	86.8	84.6	87.5	88.3	85.9	84.2	86.1	85.1
†Hispanic					84.7	86.2	88.6	87.1	86.0	86.6	87.2
†Non-Hispanic					81.3	82.8	83.2	82.5	81.8	82.8	82.7
Diabetes	76.2	77.5	79.4	82.0	82.0	82.0	83.2	83.2	81.9	83.2	82.1
Hypertension	75.2	74.6	77.5	79.0	80.4	80.4	81.9	81.1	77.9	80.6	80.5
Glomerulonephritis	78.2	78.1	78.4	81.4	81.1	84.3	84.9	82.9	83.9	84.7	85.2
Other cause	78.5	77.1	78.2	80.7	82.4	85.0	84.7	83.9	84.2	84.1	84.9
First transplant	77.8	77.5	79.0	81.7	81.9	83.5	84.2	83.4	82.9	83.9	83.4
Subsequent transplants	73.3	73.1	74.4	75.7	79.8	80.0	80.9	79.8	78.3	79.1	83.0
All	77.2	77.0	78.4	80.9	81.6	83.1	83.8	83.0	82.3	83.3	83.3
ADJUSTED											
0-19	74.0	73.9	76.6	76.4	78.3	84.1	82.2	81.6	80.9	84.2	83.2
20-44	78.0	78.1	80.3	82.9	83.7	84.9	87.1	85.0	84.7	86.6	86.6
45-64	76.3	76.7	78.0	80.8	81.2	83.1	82.6	83.1	82.3	82.8	83.0
65-74	75.2	70.5	72.0	73.4	75.9	73.9	76.6	75.4	77.2	77.1	77.5
75+	71.5	45.5	69.2	61.3	68.4	71.2	68.8	72.7	61.7	70.6	75.5
Male	76.5	76.9	78.5	80.5	81.7	83.5	84.1	83.9	83.2	84.1	83.8
Female	76.5	75.9	78.0	81.5	81.7	82.9	84.1	82.3	82.4	83.9	84.7
White	78.3	77.8	79.4	81.7	83.2	84.5	85.5	85.1	85.1	85.5	85.8
Black	71.1	71.8	75.2	78.0	77.5	79.5	79.6	78.1	77.2	79.7	79.8
Other race	81.8	83.5	81.0	85.6	84.1	86.9	87.8	86.1	84.2	86.1	85.2
Diabetes	74.4	76.1	78.4	81.2	81.5	81.8	83.2	83.4	82.4	83.7	83.0
Hypertension	77.5	76.9	79.6	81.1	82.5	82.6	84.1	83.3	80.7	83.3	83.3
Glomerulonephritis	77.6	77.3	78.3	81.2	81.0	84.3	84.8	83.0	84.2	85.0	85.7
Other cause	77.3	75.9	77.6	80.2	82.0	84.6	84.4	83.6	84.1	84.0	85.0
First transplant	77.3	77.2	79.2	81.9	82.2	83.9	84.7	83.9	83.8	84.8	84.5
Subsequent transplants	71.4	71.3	72.8	74.0	78.4	78.8	79.7	78.7	77.1	78.2	82.2
All	76.5	76.4	78.3	80.9	81.7	83.2	84.0	83.3	82.9	84.0	84.2

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.

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
<1	14.3	71.4	88.9	46.7	54.6	68.2	57.1	65.0	33.3	66.7	28.6	66.7
1-4	50.0	54.6	57.1	56.0	48.0	44.1	60.0	61.1	56.8	66.7	54.8	64.3
5-9	53.1	57.1	51.1	57.1	61.7	65.7	43.3	56.9	61.2	67.5	58.3	70.3
10-14	52.8	54.1	55.0	50.5	60.2	56.9	52.0	63.3	50.8	62.4	59.6	70.2
15-19	62.0	59.7	56.7	57.8	60.5	55.1	60.4	55.8	56.1	59.6	62.9	62.2
20-29	56.3	53.7	57.0	58.0	57.6	60.4	59.7	62.5	62.2	68.0	66.9	72.6
30-39	49.4	50.9	49.2	51.4	56.1	59.7	59.3	60.3	65.3	66.9	69.8	75.3
40-49	43.2	49.3	50.7	48.7	53.5	58.2	56.2	57.3	62.9	67.3	68.4	71.9
50-59	43.6	41.0	45.3	43.8	57.4	55.7	57.2	60.1	64.9	66.2	70.3	71.6
60-64	50.0	35.6	37.3	43.2	50.8	51.0	60.4	57.3	64.9	64.4	68.4	71.7
65-69	36.4	33.3	60.0	50.0	48.0	46.2	56.4	53.8	54.8	61.8	63.9	66.9
70-79	.	50.0	.	66.7	16.7	33.3	58.3	70.6	56.1	55.9	61.5	65.1
80+	.	.	.	.	.	50.0	.	.	100.0	100.0	.	100.0
Male	49.8	50.2	50.2	50.8	55.1	58.1	57.3	58.5	62.1	66.1	68.0	71.6
Female	48.7	50.4	52.9	52.3	57.5	58.2	59.3	61.3	64.8	67.0	68.5	73.2
White	52.4	54.0	54.0	54.5	57.8	61.2	61.5	61.8	65.9	69.2	70.2	74.6
Black	39.7	37.0	41.4	39.7	48.1	48.1	45.8	50.9	52.6	55.9	60.7	63.6
Other race	43.0	49.4	53.6	60.5	71.7	63.7	69.8	65.6	71.8	74.9	74.3	78.6
†Hispanic												
†Non-Hispanic												
Diabetes	47.9	54.5	49.1	48.5	53.9	59.7	58.4	57.9	63.5	69.2	66.6	72.8
Hypertension	46.6	48.2	48.8	47.4	53.7	52.8	54.3	54.5	59.5	60.9	65.4	69.2
Glomerulonephritis	54.5	52.7	52.7	53.6	57.8	60.7	59.2	61.2	63.9	66.7	69.0	73.2
Other cause	47.4	47.9	51.7	52.2	56.4	57.6	58.7	61.7	64.2	67.2	70.4	72.9
First transplant	50.6	51.3	52.1	53.3	58.0	60.6	59.9	60.2	64.6	67.4	69.1	73.3
Subsequent transplants	39.6	42.2	43.3	37.8	45.1	46.0	47.5	55.4	53.9	60.5	63.1	65.5
All	49.4	50.3	51.1	51.3	56.0	58.2	58.1	59.5	63.2	66.4	68.2	72.3
ADJUSTED												
0-19	54.4	55.5	55.2	54.3	58.8	55.9	55.2	58.1	54.5	62.8	60.5	66.3
20-44	49.0	50.0	51.1	51.7	55.2	59.6	58.8	59.7	63.5	67.0	68.3	73.7
45-64	39.6	40.6	45.0	44.4	54.4	55.2	56.3	58.4	63.2	65.4	69.2	71.1
65-74	28.8	32.7	56.7	47.1	40.3	42.4	54.3	53.4	53.1	58.5	61.5	64.8
75+	.	.	.	100.0	.	44.3	.	100.0	59.9	68.6	47.5	85.1
Male	45.3	45.8	46.4	47.3	52.3	56.0	55.2	56.7	60.6	64.5	67.1	70.8
Female	43.6	45.1	49.1	48.4	54.4	55.6	57.1	58.9	62.7	65.3	66.8	72.0
White	47.2	49.0	49.7	50.2	54.4	58.5	58.9	59.6	64.2	67.6	69.2	73.8
Black	38.0	35.6	40.2	38.9	47.4	47.4	45.5	50.6	52.5	55.7	60.5	63.5
Other race	35.1	41.2	45.4	51.5	67.3	58.3	64.3	60.1	67.5	72.5	71.6	76.5
Diabetes	41.3	48.6	42.8	43.0	48.3	55.3	53.9	54.2	60.5	66.0	63.9	70.6
Hypertension	49.3	50.1	52.2	50.4	57.7	55.7	57.9	57.6	62.7	63.9	68.1	71.6
Glomerulonephritis	51.7	49.4	49.7	50.8	56.0	58.9	57.1	59.4	62.4	65.3	68.1	72.2
Other cause	44.1	44.5	49.0	49.3	53.8	55.7	56.7	60.1	62.2	65.5	68.9	71.5
First transplant	45.7	46.5	48.3	49.6	54.7	58.0	57.5	58.1	63.0	65.9	68.0	72.5
Subsequent transplants	36.4	39.1	40.4	35.4	42.8	43.5	45.4	53.1	51.3	57.9	60.7	63.1
All	44.6	45.5	47.3	47.6	53.0	55.8	55.8	57.5	61.4	64.8	67.0	71.2

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.

on our website & CD

Three-year probability of death with functioning graft: all transplants, deceased donors (F.4.1).

f transplantation: outcomes

Table F.4 (continued)

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	64.3	50.0	83.3	75.0	62.5	62.5	87.5	70.0	50.0	70.0
1-4	81.3	75.9	84.0	70.8	73.0	68.8	91.7	78.1	72.0	87.5
5-9	84.1	68.2	83.1	80.7	78.3	88.7	81.5	73.7	81.8	80.4
10-14	68.8	74.4	71.4	71.2	76.5	85.4	81.0	80.5	84.4	78.9
15-19	63.9	64.9	64.2	65.5	64.6	70.4	65.4	73.0	67.5	77.6
20-29	70.6	70.4	74.5	75.5	75.6	78.8	79.0	77.7	77.5	80.9
30-39	74.4	72.4	75.0	78.3	79.6	79.8	82.4	80.0	78.8	82.3
40-49	72.9	73.6	75.0	76.7	77.5	79.2	80.9	81.1	80.3	80.9
50-59	70.5	71.8	72.8	75.4	76.6	76.0	77.3	77.4	76.8	77.7
60-64	72.3	68.6	71.8	71.6	75.7	75.0	73.2	74.3	73.8	73.5
65-69	68.4	67.7	67.3	68.2	70.2	64.9	72.1	69.4	71.3	70.7
70-79	69.8	54.3	65.9	63.0	68.0	65.4	64.3	65.9	69.4	68.2
80+	66.7	50.0	50.0	100.0	66.7	100.0	50.0	60.0	57.1	80.0
Male	71.8	71.4	73.5	74.8	76.6	77.1	78.3	78.4	77.5	78.0
Female	72.5	71.7	73.6	76.3	76.5	77.4	78.5	76.8	76.5	79.1
White	74.2	73.2	75.3	76.9	78.8	79.2	80.2	79.9	79.8	80.3
Black	64.0	64.2	68.0	70.0	70.3	71.1	72.6	71.1	69.6	73.0
Other race	78.6	80.5	77.6	82.8	79.4	81.1	83.4	81.5	81.4	83.2
†Hispanic					80.4	81.8	83.7	82.3	81.6	82.5
†Non-Hispanic					76.2	76.7	77.8	77.2	76.5	77.8
Diabetes	69.3	71.9	74.4	76.4	76.8	76.2	77.4	77.1	76.5	77.6
Hypertension	69.2	68.1	71.9	71.5	74.3	73.5	75.7	74.9	71.1	74.7
Glomerulonephritis	73.6	72.3	72.8	76.0	76.4	78.3	79.5	78.1	78.4	80.8
Other cause	74.9	72.6	74.4	76.3	78.0	79.8	80.3	79.9	80.5	79.9
First transplant	72.4	72.1	73.9	76.2	77.0	77.7	78.9	78.2	77.9	79.1
Subsequent transplants	69.6	67.1	70.6	69.6	73.4	73.8	74.9	74.3	72.0	73.8
All	72.1	71.5	73.5	75.3	76.6	77.2	78.4	77.7	77.1	78.4
ADJUSTED										
0-19	68.6	67.6	70.7	69.8	70.6	77.1	75.1	75.4	73.7	78.5
20-44	73.0	72.5	75.6	77.5	78.8	79.8	81.7	80.1	79.4	82.5
45-64	71.1	71.4	73.2	75.5	76.6	77.2	77.7	78.1	77.5	78.0
65-74	67.3	63.9	66.3	67.0	69.3	64.8	69.9	68.0	71.2	70.4
75+	71.9	45.4	57.1	50.5	63.2	62.4	62.9	71.1	60.1	63.3
Male	71.2	71.0	73.6	75.0	76.8	77.6	78.9	79.0	78.4	79.2
Female	71.3	70.7	73.1	75.9	76.5	77.2	78.5	76.7	76.9	79.5
White	73.7	72.8	75.3	77.0	79.1	79.6	80.7	80.5	80.7	81.3
Black	63.9	64.3	68.0	70.0	70.4	71.4	72.8	71.5	69.9	73.5
Other race	77.0	78.8	76.7	81.4	78.8	80.3	82.7	81.7	81.3	83.1
Diabetes	67.1	70.2	73.2	75.5	76.2	76.0	77.4	77.2	77.1	78.4
Hypertension	71.9	70.8	74.5	74.1	76.9	76.4	78.5	77.6	74.6	78.0
Glomerulonephritis	72.9	71.3	72.7	75.9	76.4	78.2	79.3	78.3	78.8	81.3
Other cause	73.5	71.2	73.7	75.7	77.5	79.2	80.0	79.5	80.5	79.8
First transplant	71.8	71.7	74.1	76.5	77.5	78.2	79.5	78.9	78.9	80.3
Subsequent transplants	67.5	65.0	68.9	67.5	71.7	72.3	73.5	73.0	70.5	72.7
All	71.2	70.9	73.4	75.3	76.7	77.4	78.7	78.1	77.8	79.3

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.

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	14.3	71.4	88.9	46.7	54.6	59.1	50.0	60.0	26.7	60.0	28.6	66.7	64.3	50.0	75.0	75.0	50.0	62.5	62.5	70.0	
1-4	50.0	54.6	42.9	48.0	48.0	44.1	50.0	61.1	56.8	60.0	54.8	53.6	75.0	65.5	72.0	70.8	70.3	68.8	87.5	78.1	
5-9	43.8	40.5	37.8	50.0	55.3	59.7	38.3	54.2	58.2	55.8	51.4	56.3	77.3	60.6	74.6	68.4	73.9	80.7	72.3	70.2	
10-14	43.1	41.9	38.5	42.6	50.0	44.0	41.5	55.5	42.5	49.5	48.1	66.0	61.3	62.2	58.8	62.7	63.3	70.9	68.0	73.7	
15-19	51.8	51.1	46.5	50.8	51.7	41.1	43.0	44.6	44.3	49.4	48.3	50.8	51.8	52.7	49.8	53.5	53.9	57.0	53.7	59.3	
20-29	47.7	44.7	49.3	50.5	48.1	48.2	48.7	52.8	52.4	57.7	58.1	62.5	59.4	60.7	61.4	64.1	64.1	67.0	67.6	67.1	
30-39	38.6	42.7	42.7	42.4	45.0	48.9	50.1	48.8	55.1	57.4	59.6	64.7	64.3	63.8	65.6	67.9	68.7	69.6	72.6	69.9	
40-49	34.9	39.9	40.9	39.2	43.5	44.9	44.2	46.3	54.1	59.6	58.6	61.5	61.4	65.1	64.6	66.2	67.2	69.8	71.5	72.8	
50-59	32.3	31.5	33.3	35.1	45.3	44.5	43.4	48.5	54.5	55.4	59.2	59.4	59.4	58.8	62.0	64.8	64.2	66.0	66.5	67.2	
60-64	19.2	26.7	30.5	35.1	36.4	36.4	43.8	45.4	54.3	54.0	59.0	57.0	62.7	57.0	57.6	57.4	63.1	62.9	59.9	61.0	
65-69	36.4	11.1	20.0	35.0	36.0	30.8	38.2	35.9	44.6	52.1	50.2	54.2	52.4	51.0	51.5	56.3	57.4	51.7	61.3	56.0	
70-79	.	50.0	.	33.3	.	33.3	33.3	64.7	48.8	44.1	44.6	44.4	54.2	41.0	51.6	41.3	49.0	51.3	51.0	50.0	
80+	.	.	.	.	.	.	.	.	.	100.0	.	50.0	66.7	50.0	50.0	100.0	66.7	50.0	50.0	60.0
Male	39.6	41.1	41.1	41.8	44.4	46.3	45.7	47.3	52.8	56.1	57.6	60.0	61.0	60.7	61.8	64.1	64.9	66.4	67.6	67.6	
Female	39.8	41.4	44.2	44.3	47.4	46.2	47.6	50.7	54.4	58.1	58.5	62.8	61.1	62.0	63.0	64.4	65.4	67.0	68.2	67.1	
White	43.1	45.2	45.3	46.2	48.2	50.0	50.5	52.1	56.6	60.4	60.7	64.5	64.0	63.6	64.8	66.6	68.1	69.7	70.8	70.5	
Black	27.5	26.2	31.0	29.4	34.3	33.5	31.6	35.8	41.0	43.2	47.6	48.9	49.6	51.1	54.7	56.2	56.2	57.4	58.3	57.8	
Other race	36.7	44.8	51.6	56.6	63.8	55.5	59.9	58.0	64.0	67.6	66.5	66.7	70.8	72.8	67.5	74.0	70.8	73.3	75.1	73.8	
†Hispanic																		71.3	71.0	74.2	71.9
†Non-Hispanic																		64.5	66.2	67.1	66.9
Diabetes	37.9	44.5	40.5	39.6	43.0	45.2	46.7	45.2	51.6	57.5	55.1	60.0	57.0	59.7	61.1	64.5	63.6	64.8	65.3	65.2	
Hypertension	34.5	37.0	37.4	37.5	40.1	40.1	40.8	41.2	47.4	49.6	54.5	55.3	55.7	55.5	59.3	58.7	59.7	61.7	62.7	61.7	
Glomerulonephritis	45.5	43.7	44.1	46.3	48.2	50.7	48.3	50.4	54.7	58.3	58.6	61.6	62.8	62.8	61.6	64.9	66.5	67.7	70.0	68.3	
Other cause	37.7	39.7	43.4	43.2	46.7	45.9	47.3	53.1	56.6	59.0	61.5	65.1	66.4	65.0	66.2	67.2	69.3	71.0	72.1	72.6	
First transplant	41.0	42.4	43.3	44.7	47.4	49.0	48.1	49.5	54.7	58.0	58.9	62.1	61.2	61.7	62.8	64.9	65.8	67.0	68.4	67.8	
Subsequent transplants	28.4	32.1	33.8	29.3	35.1	32.7	36.8	43.3	45.4	50.0	52.6	54.4	59.8	57.2	58.9	59.5	60.4	63.9	63.9	64.7	
All	39.6	41.2	42.2	42.7	45.5	46.3	46.4	48.6	53.4	56.9	58.0	61.1	61.0	61.2	62.3	64.2	65.1	66.6	67.9	67.4	
ADJUSTED																					
0-19	44.7	45.2	42.8	47.1	50.7	44.6	41.7	50.2	45.8	52.2	49.5	56.8	59.0	56.5	58.1	59.6	61.0	65.6	63.7	66.1	
20-44	39.7	41.4	43.9	43.2	45.0	47.9	48.4	48.7	53.6	57.6	58.6	63.2	62.4	63.6	65.3	67.4	68.4	69.5	71.7	70.6	
45-64	28.6	31.1	33.2	35.2	42.3	42.4	42.6	47.1	53.3	55.6	58.7	58.9	59.9	60.0	61.9	63.9	64.6	67.0	67.0	67.7	
65-74	28.7	15.4	17.6	34.0	27.4	28.6	35.1	36.8	43.2	49.0	46.7	50.0	51.2	48.2	50.9	52.6	55.1	51.1	58.4	54.4	
75+	.	.	.	.	27.4	.	100.0	50.3	40.2	40.7	72.0	60.1	29.6	48.5	36.1	45.7	51.4	55.3	53.4	
Male	35.0	36.7	37.2	38.2	41.5	43.9	43.3	45.4	51.2	54.2	56.6	58.8	60.3	60.2	62.1	64.4	65.2	67.1	68.4	68.5	
Female	34.5	35.9	40.2	40.1	43.9	43.2	45.1	48.1	51.9	56.1	56.4	61.2	59.6	60.7	62.4	64.0	65.4	66.8	68.1	67.0	
White	37.7	40.1	40.8	41.6	44.5	47.0	47.7	49.6	54.7	58.7	59.5	63.5	63.4	63.2	64.7	66.8	68.5	70.2	71.6	71.3	
Black	26.0	25.0	29.8	28.8	33.6	32.8	31.4	35.7	40.9	42.9	47.4	48.8	49.5	51.2	54.8	56.3	56.4	57.7	58.7	58.2	
Other race	29.3	36.4	43.2	47.1	58.3	49.2	53.5	51.9	59.0	64.7	63.3	63.9	68.7	70.7	66.4	72.2	70.2	72.2	74.0	74.1	
Diabetes	31.2	38.3	34.3	34.1	37.2	40.3	41.9	41.3	48.3	53.7	52.0	57.2	54.3	57.6	59.5	63.4	62.8	64.5	65.1	65.3	
Hypertension	37.4	39.0	41.0	40.7	44.6	43.2	44.7	44.6	51.1	53.0	57.7	58.3	59.3	58.9	62.7	62.0	63.3	65.5	66.6	65.5	
Glomerulonephritis	42.4	40.2	40.8	43.3	46.2	48.7	45.8	48.4	52.8	56.6	57.6	60.4	61.9	61.6	61.3	64.6	66.5	67.7	69.8	68.6	
Other cause	34.6	36.3	40.5	40.1	43.8	43.6	45.0	51.3	54.4	57.1	59.8	63.3	64.7	63.3	65.5	66.5	68.5	70.2	71.7	72.0	
First transplant	36.0	37.4	39.4	40.8	43.9	46.0	45.4	47.2	52.8	56.2	57.6	61.0	60.4	61.3	63.1	65.4	66.4	67.8	69.3	68.7	
Subsequent transplants	25.5	29.2	31.1	27.2	33.1	30.5	34.7	41.0	42.7	47.2	50.0	51.8	57.4	54.9	56.8	57.1	58.3	62.0	62.0	63.1	
All	34.7	36.4	38.2	38.8	42.3	43.6	43.9	46.4	51.4	54.9	56.5	59.7	60.0	60.4	62.2	64.2	65.3	66.9	68.3	67.9	

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.

on our website & CD

Five-year probability of death with functioning graft: all transplants, deceased donors (F.5.1)

f transplantation: outcomes

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	.	71.4	77.8	46.7	54.6	54.6	42.9	35.0	13.3	53.3	0.0	66.7	50.0	37.5	75.0
1-4	50.0	45.5	42.9	48.0	36.0	20.6	40.0	44.4	35.1	43.3	50.0	42.9	59.4	55.2	56.0
5-9	34.4	28.6	37.8	35.7	36.2	32.8	26.7	33.3	46.3	31.2	33.3	39.1	50.0	47.0	57.6
10-14	26.4	25.7	25.3	31.7	30.6	28.4	30.1	30.5	23.3	33.9	31.7	40.4	37.5	45.1	37.0
15-19	38.7	42.5	33.1	38.7	39.0	24.2	29.6	35.7	32.1	34.0	32.9	33.0	35.1	36.7	31.0
20-29	33.5	33.7	36.8	36.2	32.0	33.9	32.2	36.7	36.9	39.5	39.3	42.2	36.6	40.6	42.7
30-39	25.3	27.1	30.0	28.8	27.9	30.8	31.7	32.0	36.3	38.4	39.1	41.1	41.8	42.0	43.9
40-49	20.4	23.7	24.3	23.7	25.1	26.3	26.8	30.7	34.0	38.6	37.3	39.6	39.5	42.8	42.8
50-59	18.5	19.4	18.4	18.4	22.7	18.6	22.9	27.4	32.0	32.6	33.9	33.9	32.6	34.8	35.5
60-64	11.5	8.9	17.0	13.5	10.6	15.9	19.8	23.1	27.2	25.7	29.6	27.9	26.9	31.4	29.7
65-69	9.1	.	20.0	10.0	12.0	7.7	16.4	15.1	16.7	23.6	20.0	23.5	21.5	21.3	23.2
70-79	.	.	.	33.3	.	16.7	.	35.3	26.8	14.7	21.5	9.5	20.8	11.4	19.8
80+	.	.	.	.	.	.	.	.	.	100.0	.	50.0	33.3	50.0	.
Male	25.0	26.9	26.9	27.2	26.1	26.8	27.8	30.0	32.9	35.2	35.4	36.5	36.0	38.2	38.1
Female	27.2	28.3	31.6	30.0	29.4	28.8	29.4	33.1	34.9	37.6	37.3	39.4	37.5	39.4	40.9
White	29.4	31.3	31.8	31.7	30.2	31.2	32.3	34.8	36.5	39.7	39.1	40.3	39.8	41.4	42.2
Black	12.4	12.2	16.5	14.5	15.5	14.3	14.5	17.5	21.2	22.1	24.8	26.6	24.1	27.5	29.7
Other race	26.6	34.5	41.2	45.0	45.7	42.5	41.3	42.9	49.7	49.5	45.8	50.1	49.4	51.7	48.2
†Hispanic															
†Non-Hispanic															
Diabetes	20.7	24.7	26.0	22.3	21.5	22.7	22.4	24.7	25.9	30.3	29.9	30.7	29.0	32.9	32.3
Hypertension	19.7	20.6	20.9	21.2	19.8	17.9	20.4	22.3	25.8	27.6	31.2	30.8	28.3	32.1	33.3
Glomerulonephritis	31.0	30.4	31.1	33.3	30.0	33.3	32.6	33.5	36.8	39.5	38.4	41.1	40.2	41.3	41.7
Other cause	25.3	28.3	30.8	29.5	31.2	29.8	32.6	37.9	39.9	41.9	41.5	44.4	45.3	46.2	48.0
First transplant	27.1	28.4	29.2	29.9	29.1	29.8	29.6	31.9	34.8	37.1	36.6	38.3	36.9	39.3	39.5
Subsequent transplants	14.8	19.9	23.7	16.7	17.9	16.4	21.3	26.3	26.9	29.9	33.4	33.1	34.6	33.7	37.4
All	25.8	27.4	28.6	28.2	27.4	27.5	28.4	31.2	33.7	36.1	36.1	37.6	36.6	38.7	39.2
ADJUSTED															
0-19	30.3	33.4	31.3	35.1	34.5	25.9	28.3	33.0	30.3	34.5	33.2	37.4	38.1	40.1	38.8
20-44	25.6	27.7	30.7	28.9	28.1	30.8	31.0	32.2	35.6	38.7	38.4	41.3	40.1	42.6	44.5
45-64	16.0	16.7	17.6	18.6	20.5	19.5	22.3	27.4	29.9	31.4	33.7	33.0	32.5	35.4	36.6
65-74	7.1	.	18.0	13.0	8.6	6.0	12.4	16.2	16.9	20.4	18.7	19.7	19.7	18.0	21.5
75+	.	.	.	.	.	17.6	.	.	23.2	6.0	12.6	19.8	25.1	22.9	15.9
Male	20.9	22.8	23.2	23.5	23.3	24.1	25.5	27.9	31.0	33.0	34.4	35.1	35.0	37.6	38.4
Female	21.9	23.0	27.4	25.8	25.9	25.8	26.7	30.3	32.1	35.3	34.7	37.4	35.5	37.7	40.0
White	24.2	26.4	27.3	27.1	26.7	28.0	29.4	32.2	34.3	37.7	37.8	39.0	39.0	40.7	42.2
Black	11.4	11.5	15.7	14.0	15.0	13.7	14.4	17.4	21.1	21.8	24.6	26.5	23.9	27.6	29.7
Other race	19.9	25.8	32.2	34.3	38.3	35.2	34.0	36.3	43.7	45.5	41.9	46.4	46.4	49.1	46.8
Diabetes	15.4	19.6	20.6	17.9	17.0	18.4	18.3	21.3	22.8	26.4	26.8	27.7	26.1	30.5	30.4
Hypertension	22.2	22.0	24.2	24.1	23.7	20.2	24.0	25.5	29.5	30.9	34.8	34.1	32.4	35.9	37.5
Glomerulonephritis	27.5	26.5	27.4	29.6	27.7	30.8	29.7	31.2	34.6	37.3	37.0	39.5	38.8	39.6	41.2
Other cause	22.4	24.9	27.8	26.2	28.1	27.4	30.2	35.8	37.5	39.9	39.6	42.3	43.2	44.2	47.0
First transplant	22.5	23.8	25.4	26.0	25.6	26.7	27.0	29.5	32.6	35.1	35.2	37.0	35.8	38.7	39.9
Subsequent transplants	12.5	17.3	21.0	14.7	16.1	14.5	19.2	23.9	24.1	26.8	30.4	30.0	31.6	31.2	34.8
All	21.2	22.9	24.7	24.3	24.2	24.7	25.9	28.8	31.4	33.9	34.5	36.0	35.2	37.6	39.0

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.

on our website & CD

Ten-year graft survival probabilities: all transplants, deceased donors (F.6.1).

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
<1	100.0	100.0	85.7	100.0	86.7	90.0	100.0	81.3	69.6	92.6	93.3	92.0
1-4	80.0	100.0	81.3	94.7	91.7	100.0	96.3	88.4	81.5	96.6	76.7	88.6
5-9	95.7	94.7	84.9	89.7	95.6	88.2	81.3	88.2	87.8	82.1	86.4	89.0
10-14	95.8	97.4	80.7	95.8	93.9	93.0	91.4	94.1	94.9	95.0	84.8	94.8
15-19	93.9	94.6	95.9	94.5	93.2	95.2	97.0	96.5	94.2	97.8	89.2	95.0
20-29	96.6	96.3	94.4	93.4	92.7	94.8	95.6	95.1	92.5	92.6	95.0	95.2
30-39	94.8	94.0	92.5	93.6	94.4	94.7	96.1	95.1	92.1	93.7	92.6	95.2
40-49	95.9	92.6	92.0	94.2	94.7	95.6	95.9	93.6	95.4	93.4	92.5	95.2
50-59	92.9	92.0	96.6	92.9	94.2	93.4	95.9	94.5	91.9	95.2	92.3	95.1
60-64	.	100.0	92.9	92.3	94.1	96.6	91.4	95.3	89.7	87.0	94.9	91.9
65-69	100.0	100.0	.	80.0	100.0	100.0	94.3	94.1	100.0	85.7	90.9	84.2
70-79	.	.	.	100.0	100.0	100.0	77.8	100.0	.	.	100.0	100.0
80+	100.0	.	.	.	.	.	100.0	.	.	.	.	.
Male	94.4	94.4	92.8	93.3	94.3	95.0	95.3	94.3	91.5	93.0	92.3	94.6
Female	97.1	94.8	92.9	94.2	93.2	94.3	95.4	94.6	94.1	93.9	92.2	94.7
White	95.4	95.4	93.2	93.2	94.3	95.0	95.5	94.4	92.4	93.6	92.1	94.9
Black	95.5	90.1	91.2	94.9	89.8	93.7	95.0	94.0	91.7	90.4	92.1	91.7
Other race	100.0	90.7	91.7	98.3	98.7	90.5	95.0	96.2	97.1	98.6	95.6	100.0
†Hispanic												
†Non-Hispanic												
Diabetes	96.2	92.0	91.1	90.1	92.8	92.4	95.1	92.6	92.2	94.9	91.7	93.4
Hypertension	94.7	96.3	93.6	95.3	95.1	96.8	95.5	97.3	90.0	92.5	90.9	95.3
Glomerulonephritis	95.6	96.8	93.0	94.9	93.2	95.7	95.7	93.9	91.9	92.7	93.7	96.4
Other cause	95.4	93.2	93.3	93.8	94.6	94.4	95.2	94.9	94.0	93.3	91.6	93.7
First transplant	95.3	94.7	92.9	93.8	94.2	95.1	95.2	94.9	92.5	93.6	92.6	95.0
Subsequent transplants	98.0	92.9	91.3	91.6	90.1	90.6	96.7	90.0	92.3	89.9	87.0	90.5
All	95.5	94.6	92.8	93.7	93.9	94.7	95.4	94.4	92.5	93.4	92.2	94.6
ADJUSTED												
0-19	93.3	94.9	88.2	93.4	92.3	92.6	92.5	92.4	89.8	93.0	84.8	91.6
20-44	95.7	94.1	93.0	93.4	93.6	95.1	96.0	95.2	92.6	93.2	93.8	95.2
45-64	93.0	93.6	95.4	93.8	95.0	94.3	95.2	93.5	93.8	93.5	91.5	95.2
65-74	100.0	100.0	.	82.2	100.0	100.0	89.9	94.4	100.0	86.6	90.9	86.4
75+	100.0	.	.	.	.	100.0	100.0	100.0	.	.	100.0	.
Male	93.4	93.6	92.3	92.9	93.8	94.7	95.2	94.1	91.0	92.5	91.7	94.2
Female	96.8	94.5	92.6	93.9	93.0	94.0	95.2	94.6	93.8	93.6	91.9	94.8
White	94.7	94.9	92.8	92.8	94.0	94.8	95.4	94.2	92.1	93.2	91.7	94.7
Black	95.3	90.1	91.1	94.8	90.0	93.7	95.1	94.1	91.9	91.1	92.3	92.2
Other race	100.0	89.3	89.7	98.0	98.5	89.2	94.3	95.7	96.7	98.6	95.0	100.0
Diabetes	95.6	90.9	89.9	88.7	91.8	91.6	94.5	91.9	91.1	94.2	90.7	92.8
Hypertension	94.6	96.4	94.4	95.6	95.3	97.1	96.0	97.4	90.6	92.5	90.9	95.3
Glomerulonephritis	95.2	96.8	92.5	94.7	92.9	95.5	95.6	93.7	91.6	92.7	93.3	96.3
Other cause	95.0	92.6	93.2	93.5	94.6	94.2	95.1	94.9	93.9	93.0	91.2	93.5
First transplant	94.6	94.1	92.5	93.4	93.9	94.8	95.1	94.7	92.2	93.3	92.2	94.8
Subsequent transplants	97.6	92.1	90.5	90.8	89.0	89.8	96.4	89.1	91.6	89.2	86.2	89.7
All	94.8	94.0	92.4	93.2	93.5	94.4	95.2	94.2	92.1	93.0	91.8	94.5

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.

90-day probability of death with functioning graft: all transplants, living donors (F.7.1).

on our website & CD

f transplantation: outcomes

Table F.7 (continued)

90-day graft survival probabilities: all living donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	70.0	86.5	81.3	90.3	92.0	100.0	97.0	97.1	87.0	94.7	97.5	96.9
1-4	92.1	84.3	88.9	97.1	89.6	98.2	90.6	98.0	93.2	98.3	100.0	96.4
5-9	94.0	95.4	94.9	91.4	93.0	98.3	97.1	97.1	98.3	93.3	98.7	97.5
10-14	96.4	96.3	96.9	96.5	96.6	96.1	98.4	93.8	94.8	96.3	99.3	97.9
15-19	90.6	94.8	95.8	92.9	95.5	96.1	94.9	99.1	96.7	95.5	98.3	98.7
20-29	94.0	95.2	96.1	95.2	97.3	96.9	96.3	96.8	96.7	97.0	98.1	97.7
30-39	94.5	93.9	95.0	96.3	95.9	97.4	97.1	96.7	97.4	97.1	97.2	97.0
40-49	94.8	95.7	95.0	95.0	96.5	95.8	97.5	96.2	95.9	96.7	96.7	97.1
50-59	93.6	91.9	95.7	93.5	94.8	95.7	96.4	95.6	97.3	96.6	96.7	97.5
60-64	96.3	95.3	89.7	92.2	97.8	96.5	96.0	96.4	96.6	96.2	97.0	96.0
65-69	89.8	97.5	95.7	88.9	94.1	96.4	97.2	96.2	95.7	96.1	96.5	95.4
70-79	100.0	90.9	100.0	92.3	92.0	93.9	89.4	96.6	95.2	95.0	96.0	94.4
80+	100.0	.	.	.	.	.	.	100.0	50.0	100.0	100.0	66.7
Male	94.2	94.7	95.2	94.5	96.6	96.9	96.8	97.2	96.7	97.0	97.3	97.4
Female	93.6	93.6	95.1	94.8	95.1	96.0	96.5	95.3	96.3	96.0	96.9	96.6
White	94.1	94.5	95.1	94.5	96.1	96.4	96.7	96.4	96.7	96.6	97.1	97.1
Black	92.2	93.4	94.6	95.0	94.9	96.6	96.7	96.0	95.6	95.6	96.9	96.4
Other race	96.8	92.5	98.0	96.4	97.3	97.3	97.1	97.5	96.6	98.4	97.5	97.7
†Hispanic					96.8	96.6	96.2	96.9	97.2	97.3	98.0	97.4
†Non-Hispanic					95.8	96.5	96.8	96.3	96.5	96.5	97.0	97.0
Diabetes	91.2	94.3	94.3	93.8	95.4	95.8	96.2	96.4	96.2	96.5	96.6	96.3
Hypertension	94.9	94.5	93.9	94.5	97.5	97.4	96.7	95.5	97.0	96.4	97.2	97.0
Glomerulonephritis	94.8	94.4	95.1	94.6	96.2	96.6	97.0	96.4	96.4	96.8	97.5	97.2
Other cause	94.3	94.0	96.3	95.2	95.5	96.5	96.7	96.8	96.7	96.6	97.2	97.4
First transplant	94.0	94.6	95.5	94.6	96.1	96.6	96.9	96.5	96.7	96.6	97.3	97.0
Subsequent transplants	93.3	90.1	91.4	95.2	94.6	94.8	94.2	95.1	94.8	96.1	95.7	97.3
All	93.9	94.2	95.2	94.6	96.0	96.5	96.7	96.4	96.6	96.6	97.1	97.1
ADJUSTED												
0-19	90.4	92.2	94.0	92.6	93.6	96.3	95.4	96.5	94.9	94.5	98.4	97.5
20-44	94.7	94.7	95.6	95.5	96.5	96.8	96.8	96.7	96.8	97.1	97.1	97.3
45-64	93.7	94.0	94.6	94.5	96.0	96.0	97.0	96.0	96.9	96.6	97.1	97.1
65-74	89.7	96.0	96.5	90.9	93.5	95.7	95.6	96.4	95.8	96.5	96.7	95.6
75+	.	48.1	.	82.6	100.0	100.0	87.3	100.0	81.2	85.1	92.6	89.6
Male	93.8	94.5	95.1	94.5	96.6	96.8	96.8	97.3	96.9	97.2	97.4	97.5
Female	93.6	93.5	95.0	94.9	95.1	95.9	96.5	95.3	96.3	96.0	97.0	96.7
White	93.9	94.3	95.0	94.4	96.1	96.4	96.7	96.5	96.9	96.8	97.3	97.3
Black	92.4	93.5	94.7	95.3	95.0	96.6	96.8	96.0	95.7	95.7	97.0	96.5
Other race	96.5	92.0	97.9	96.8	97.2	97.3	97.0	97.4	96.3	98.4	97.5	97.6
Diabetes	90.7	94.0	94.1	93.7	95.5	95.8	96.3	96.6	96.5	96.8	97.0	96.7
Hypertension	95.0	94.7	94.2	95.1	97.7	97.5	96.9	95.9	97.2	96.8	97.5	97.3
Glomerulonephritis	94.7	94.2	95.0	94.5	96.1	96.5	96.9	96.3	96.5	96.9	97.5	97.2
Other cause	94.2	93.8	96.2	95.3	95.5	96.5	96.7	96.7	96.7	96.6	97.2	97.5
First transplant	93.8	94.4	95.4	94.6	96.1	96.6	96.9	96.6	96.8	96.8	97.4	97.2
Subsequent transplants	92.8	89.3	90.6	94.9	94.1	94.4	93.6	94.6	94.7	95.9	95.4	97.2
All	93.7	94.1	95.1	94.7	96.0	96.4	96.7	96.4	96.7	96.7	97.3	97.2

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.

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
<1	100.0	100.0	85.7	80.0	80.0	70.0	76.9	75.0	69.6	85.2	86.7	92.0
1-4	60.0	100.0	62.5	73.7	87.5	85.7	85.2	88.4	77.8	96.6	70.0	88.6
5-9	91.3	89.5	69.7	75.9	91.1	82.4	79.2	82.4	82.9	82.1	84.8	87.8
10-14	91.7	92.1	73.7	90.1	85.9	82.6	88.9	89.4	86.7	92.9	78.5	91.7
15-19	87.9	87.5	90.9	84.8	86.5	91.2	88.6	90.5	87.7	94.8	83.4	91.9
20-29	88.8	89.0	88.1	87.9	88.7	89.7	89.8	89.2	89.0	88.8	93.1	93.6
30-39	90.5	83.8	85.3	87.4	89.6	88.2	92.1	89.8	87.6	90.8	90.2	93.2
40-49	81.5	80.8	84.9	85.1	88.8	91.4	92.4	88.8	91.1	91.2	89.3	92.9
50-59	78.6	79.3	87.1	88.2	87.4	91.6	93.3	90.2	88.2	89.3	87.5	91.9
60-64	.	100.0	78.6	92.3	94.1	94.9	91.4	89.4	86.2	84.8	89.7	82.3
65-69	100.0	100.0	.	80.0	100.0	91.7	85.7	91.2	70.0	85.7	86.4	84.2
70-79	.	.	.	100.0	100.0	100.0	77.8	100.0	.	.	100.0	100.0
80+	.	.	.	.	.	.	100.0	.	.	.	.	.
Male	86.6	84.8	85.3	85.9	89.7	89.8	91.2	88.9	86.6	89.7	89.2	92.3
Female	88.8	86.8	86.1	88.1	86.9	89.1	90.8	90.0	90.0	90.8	88.8	92.4
White	87.9	86.6	86.6	87.4	89.5	90.3	91.1	89.1	88.0	90.7	88.9	92.7
Black	84.3	76.9	81.6	82.1	80.9	85.8	90.8	88.6	86.1	84.2	88.1	87.9
Other race	85.7	86.1	77.1	90.0	96.1	86.9	90.8	95.4	92.7	97.2	94.4	100.0
†Hispanic												
†Non-Hispanic												
Diabetes	84.9	79.9	82.2	79.9	85.1	84.5	87.6	86.4	86.2	91.5	87.5	90.4
Hypertension	88.0	87.9	86.1	89.0	88.8	92.6	93.2	92.2	86.3	87.7	88.9	91.2
Glomerulonephritis	89.8	87.9	87.2	88.8	88.7	90.8	91.8	89.9	86.5	88.9	90.5	94.3
Other cause	86.3	84.9	85.3	87.5	90.3	90.3	91.7	89.5	90.9	91.4	88.6	92.2
First transplant	87.2	85.6	85.3	86.6	89.0	90.0	90.8	89.7	87.9	90.4	89.6	92.7
Subsequent transplants	91.8	83.3	90.0	89.7	84.1	84.9	93.3	85.4	88.7	86.6	81.9	87.1
All	87.5	85.5	85.5	86.8	88.6	89.5	91.0	89.3	88.0	90.2	89.0	92.3
ADJUSTED												
0-19	86.7	87.8	79.2	81.8	84.7	84.2	84.9	86.5	82.5	90.3	79.0	89.0
20-44	87.6	84.5	86.1	86.7	89.1	89.6	91.8	89.5	88.9	89.7	91.3	93.4
45-64	79.2	80.2	86.1	88.3	87.8	91.3	91.9	89.5	88.6	90.0	87.8	91.4
65-74	100.0	100.0	.	82.2	100.0	93.2	82.3	91.6	69.4	86.6	86.4	86.4
75+	.	.	.	.	.	100.0	100.0	100.0	.	.	100.0	.
Male	84.5	82.7	84.1	84.8	88.9	89.5	90.9	88.5	85.8	89.0	88.4	91.8
Female	87.5	85.5	85.0	87.4	86.3	88.6	90.4	89.7	89.6	90.4	88.4	92.3
White	86.3	85.0	85.5	86.4	88.8	89.9	90.8	88.7	87.4	90.2	88.4	92.4
Black	83.6	77.0	81.2	82.0	81.2	86.2	90.9	88.8	86.3	84.7	88.4	88.1
Other race	81.6	86.6	72.5	88.3	95.4	85.2	89.7	94.9	91.8	97.1	93.7	100.0
Diabetes	82.5	77.4	79.9	77.3	83.0	83.0	86.1	85.2	84.4	90.5	86.1	89.6
Hypertension	87.8	88.3	86.6	89.7	89.4	93.1	93.6	92.6	87.1	87.8	88.9	91.4
Glomerulonephritis	88.9	86.8	86.4	88.0	88.3	90.4	91.6	89.6	86.0	88.6	90.0	94.0
Other cause	85.4	83.9	84.8	87.0	90.0	90.1	91.5	89.4	90.6	90.9	88.2	91.9
First transplant	85.4	84.1	84.2	85.7	88.3	89.6	90.4	89.4	87.3	89.9	88.9	92.5
Subsequent transplants	90.4	81.5	89.2	88.7	82.6	83.6	92.7	84.1	87.8	85.7	80.9	86.1
All	85.7	83.8	84.4	85.8	87.9	89.1	90.7	89.0	87.3	89.6	88.4	92.0

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.

on our website & CD

One-year probability of death with functioning graft: all transplants, living donors (F.8.1).

f transplantation: outcomes

Table F.8 (continued)

One-year graft survival probabilities: all living donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	70.0	86.5	75.0	90.3	88.0	100.0	97.0	97.1	87.0	92.1	97.5	87.5
1-4	92.1	82.4	88.9	97.1	85.4	92.6	90.6	98.0	93.2	98.3	93.5	96.4
5-9	92.5	89.2	91.5	88.9	90.1	98.3	97.1	94.3	98.3	93.3	97.4	96.2
10-14	91.8	92.7	96.9	91.3	95.8	93.2	96.9	93.0	93.0	95.5	98.5	97.1
15-19	84.8	90.7	92.1	91.8	94.0	92.3	92.1	96.7	94.3	94.1	96.1	96.2
20-29	91.9	92.6	93.4	92.8	94.8	95.3	93.5	93.8	93.5	94.5	96.1	95.4
30-39	92.0	91.4	93.3	94.1	93.7	95.7	95.0	94.8	95.6	95.2	95.4	95.2
40-49	92.7	93.0	91.7	93.0	94.8	93.4	95.7	94.6	94.1	94.5	94.5	95.5
50-59	89.1	86.9	92.1	89.3	92.3	92.7	94.2	93.5	93.4	93.6	94.1	95.8
60-64	92.5	88.7	82.2	87.0	92.8	91.6	92.4	93.4	95.0	92.4	94.3	94.4
65-69	77.6	87.5	95.7	82.7	89.1	92.0	93.1	93.7	93.2	91.8	93.6	93.7
70-79	100.0	81.8	100.0	88.5	92.0	93.9	78.7	91.5	88.5	92.6	92.6	90.7
80+	100.0	.	.	.	.	.	.	100.0	50.0	75.0	100.0	66.7
Male	91.4	90.9	91.9	91.7	94.6	94.6	94.7	95.0	94.2	94.5	95.0	95.5
Female	90.3	90.8	92.9	92.1	92.3	93.1	93.9	93.1	93.8	93.6	94.5	94.8
White	91.5	91.3	92.6	91.9	94.0	94.0	94.5	94.5	94.4	94.3	94.9	95.3
Black	86.9	89.6	90.2	91.2	91.1	93.4	93.1	92.4	92.4	92.7	93.8	94.5
Other race	93.6	86.9	95.4	94.6	96.0	96.2	95.2	96.7	93.4	95.0	96.0	95.9
†Hispanic					94.3	95.4	94.6	95.0	94.4	95.1	96.0	95.9
†Non-Hispanic					93.5	93.8	94.3	94.1	94.0	94.0	94.7	95.1
Diabetes	88.8	89.9	91.6	91.5	93.0	92.4	93.5	93.9	93.7	93.4	93.4	94.4
Hypertension	91.4	91.1	90.1	91.1	94.7	94.6	93.7	92.5	93.2	94.0	94.7	95.6
Glomerulonephritis	92.1	91.0	92.0	91.9	94.0	94.2	94.9	94.3	94.0	94.4	95.6	95.3
Other cause	91.0	91.3	94.2	92.4	93.2	94.4	94.7	95.0	94.6	94.4	95.2	95.6
First transplant	90.9	91.1	92.9	91.9	93.7	94.2	94.5	94.6	94.4	94.4	95.1	95.3
Subsequent transplants	91.1	88.3	85.7	92.4	92.9	91.9	92.3	90.8	90.6	91.5	92.7	94.8
All	91.0	90.9	92.3	91.9	93.6	94.0	94.3	94.2	94.1	94.1	94.8	95.2
ADJUSTED												
0-19	86.0	87.9	91.1	90.1	91.3	92.7	93.5	94.5	92.8	93.4	96.0	95.1
20-44	92.3	92.3	93.2	93.4	94.4	95.1	94.6	94.3	94.4	94.8	95.2	95.6
45-64	90.4	89.3	90.9	90.7	93.6	92.7	94.7	94.1	94.1	93.9	94.6	95.3
65-74	77.5	86.0	96.5	85.4	89.5	92.1	90.1	93.3	91.9	92.7	94.0	93.4
75+	.	48.1	.	82.6	100.0	100.0	74.7	100.0	81.2	80.4	85.5	82.9
Male	90.9	90.6	91.8	91.7	94.6	94.6	94.7	95.1	94.4	94.7	95.3	95.8
Female	90.1	90.7	92.8	92.2	92.2	93.0	93.8	93.1	93.8	93.7	94.7	94.9
White	91.1	91.0	92.5	91.8	94.0	93.9	94.6	94.5	94.6	94.6	95.3	95.6
Black	87.2	89.8	90.3	91.4	91.3	93.6	93.3	92.5	92.6	92.9	94.0	94.7
Other race	92.9	86.0	95.2	94.2	95.8	96.2	95.0	96.5	92.9	95.2	96.0	95.7
Diabetes	88.1	89.3	91.3	91.5	93.1	92.6	93.6	94.2	94.1	94.0	94.1	94.9
Hypertension	91.6	91.4	90.5	91.7	95.0	94.9	94.1	93.1	93.7	94.5	95.2	96.0
Glomerulonephritis	91.8	90.8	91.8	91.8	93.9	94.1	94.7	94.1	93.9	94.4	95.6	95.3
Other cause	90.7	91.0	94.0	92.3	93.2	94.3	94.7	95.0	94.6	94.4	95.2	95.6
First transplant	90.6	90.9	92.9	91.8	93.7	94.1	94.6	94.6	94.5	94.6	95.3	95.5
Subsequent transplants	90.4	87.3	84.4	92.0	92.2	91.2	91.6	89.8	90.0	91.0	92.3	94.6
All	90.6	90.6	92.2	91.9	93.6	93.9	94.3	94.3	94.1	94.3	95.1	95.4

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.

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
<1	100.0	100.0	57.1	80.0	73.3	70.0	76.9	75.0	65.2	81.5	86.7	92.0
1-4	60.0	88.9	50.0	63.2	87.5	81.0	81.5	81.4	74.1	96.6	70.0	88.6
5-9	82.6	89.5	60.6	58.6	84.4	82.4	72.9	74.5	73.2	78.6	83.1	86.6
10-14	77.1	81.6	61.4	84.5	77.8	79.1	77.8	81.2	77.6	89.9	78.5	88.5
15-19	75.8	80.4	87.6	78.6	81.2	83.0	81.3	85.8	81.2	85.9	77.1	87.6
20-29	85.1	84.7	80.5	82.6	84.7	86.6	85.3	83.5	83.7	85.1	91.4	89.5
30-39	87.5	77.8	80.1	81.9	85.9	84.6	88.9	87.2	84.4	88.2	86.8	89.3
40-49	76.7	78.9	80.5	79.4	84.5	87.4	90.3	84.7	89.7	88.4	86.9	88.3
50-59	78.6	73.6	80.3	85.2	83.6	88.2	90.9	86.4	84.5	86.6	83.7	89.9
60-64	.	100.0	71.4	92.3	88.2	94.9	87.7	85.9	79.3	84.8	87.2	75.8
65-69	100.0	100.0	.	80.0	100.0	83.3	85.7	85.3	70.0	85.7	86.4	79.0
70-79	.	.	.	100.0	100.0	100.0	77.8	100.0	.	.	80.0	100.0
80+	.	.	.	.	.	.	100.0	.	.	.	.	.
Male	81.5	79.4	78.8	80.1	85.0	86.1	87.7	84.8	81.7	87.0	87.0	88.9
Female	84.2	82.3	79.9	83.1	83.2	85.3	87.0	85.5	86.5	86.7	85.3	88.2
White	82.9	81.4	80.5	82.2	85.6	86.9	87.7	85.2	84.2	87.7	86.7	89.3
Black	82.0	74.4	72.8	73.9	74.4	79.4	85.1	82.6	78.3	78.5	80.6	81.8
Other race	76.2	79.1	75.0	88.3	90.9	84.5	89.2	90.8	88.2	95.8	91.1	97.7
†Hispanic												
†Non-Hispanic												
Diabetes	79.3	71.8	74.1	72.0	79.1	80.9	83.8	81.8	82.0	87.4	84.0	85.0
Hypertension	82.7	86.0	79.2	81.1	84.4	87.7	88.7	88.5	79.5	86.3	84.3	87.6
Glomerulonephritis	84.6	82.2	81.3	83.9	84.0	86.8	88.1	87.4	81.5	85.9	88.6	89.9
Other cause	82.0	80.6	79.5	83.5	87.4	87.1	88.5	83.7	87.8	87.6	85.8	90.1
First transplant	82.4	80.4	79.0	81.1	84.6	86.0	87.1	85.3	83.5	87.0	86.8	89.0
Subsequent transplants	85.7	83.3	82.5	83.2	80.8	82.8	90.4	82.4	84.5	84.9	77.5	83.2
All	82.6	80.5	79.2	81.3	84.3	85.8	87.4	85.1	83.6	86.9	86.2	88.6
ADJUSTED												
0-19	73.1	79.7	70.8	73.4	77.9	78.4	76.7	79.7	74.3	84.4	75.4	85.9
20-44	83.9	79.3	79.5	81.3	84.9	86.2	88.4	85.7	85.2	86.5	88.8	89.3
45-64	75.2	76.4	81.2	83.9	84.4	87.8	89.5	85.4	85.0	88.1	84.2	88.1
65-74	100.0	100.0	.	82.0	100.0	86.3	82.2	86.0	69.3	86.7	81.8	81.9
75+	.	.	.	.	.	100.0	100.0	100.0	.	.	100.0	.
Male	78.7	76.7	77.2	78.7	83.9	85.7	87.3	84.3	80.7	86.1	86.0	88.3
Female	82.4	80.7	78.5	82.1	82.4	84.8	86.5	85.1	86.0	86.1	84.7	88.0
White	80.6	79.1	79.0	80.9	84.7	86.3	87.3	84.7	83.4	87.0	86.1	88.9
Black	81.3	74.6	72.4	73.8	74.8	80.2	85.2	83.0	78.6	79.2	81.2	82.3
Other race	70.2	78.4	70.2	86.4	89.4	83.9	87.8	89.8	86.8	95.7	90.0	97.6
Diabetes	76.0	68.7	70.9	68.6	76.3	79.1	82.0	80.2	79.7	85.9	82.2	83.9
Hypertension	82.4	86.5	80.0	82.4	85.1	88.5	89.4	89.2	80.6	86.4	84.3	87.8
Glomerulonephritis	83.4	80.7	80.1	82.7	83.3	86.3	87.8	87.1	80.9	85.6	88.0	89.5
Other cause	80.7	79.2	78.9	82.8	86.9	86.9	88.3	83.5	87.3	87.0	85.2	89.7
First transplant	80.0	78.3	77.5	79.9	83.7	85.6	86.6	84.9	82.7	86.3	86.1	88.6
Subsequent transplants	83.2	81.4	81.1	81.6	78.9	81.3	89.5	80.9	83.2	83.8	76.2	81.8
All	80.2	78.3	77.6	80.0	83.3	85.3	86.9	84.6	82.7	86.1	85.4	88.1

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.

on our website & CD

Two-year probability of death with functioning graft: all transplants, living donors (F.9.1).

f transplantation: outcomes

Table F.9 (continued)

Two-year graft survival probabilities: all living donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	65.0	86.5	75.0	90.3	84.0	92.9	90.9	91.4	87.0	89.5	95.0
1-4	86.8	82.4	88.9	97.1	79.2	88.9	90.6	98.0	93.2	96.6	91.3
5-9	89.6	83.1	89.8	85.2	87.3	96.7	95.6	92.9	93.3	90.7	96.2
10-14	85.5	87.2	94.9	88.7	90.8	89.3	95.3	90.7	88.7	91.8	94.9
15-19	76.8	87.2	89.5	85.7	88.4	87.9	88.1	89.5	87.1	91.9	90.4
20-29	88.3	89.5	90.0	88.9	91.0	91.2	88.6	88.7	88.7	90.7	90.9
30-39	89.4	87.3	90.6	91.0	89.9	93.1	92.1	92.0	92.3	92.1	92.5
40-49	90.3	91.1	88.3	90.5	92.0	90.6	93.4	92.3	91.1	92.5	92.3
50-59	84.7	83.2	88.7	86.5	89.4	90.1	91.0	91.4	90.1	90.6	91.2
60-64	90.0	85.9	80.4	81.2	90.1	89.0	90.0	90.4	91.9	88.0	90.0
65-69	77.6	85.0	93.5	76.5	84.2	86.6	88.9	91.1	87.6	89.4	87.5
70-79	66.7	81.8	75.0	88.5	88.0	93.9	74.5	84.8	83.7	83.5	86.4
80+	100.0	.	.	.	.	.	.	100.0	50.0	75.0	100.0
Male	88.1	88.1	89.2	88.5	91.2	91.8	91.5	92.1	90.5	91.7	91.5
Female	86.7	87.0	89.4	88.5	88.5	89.7	90.8	89.8	90.2	90.1	91.2
White	88.4	88.3	89.9	88.9	90.8	91.2	91.5	91.7	91.0	91.6	91.9
Black	80.9	84.8	85.2	86.2	85.5	88.4	89.0	87.1	87.5	87.5	87.7
Other race	90.4	83.2	93.4	91.0	94.7	94.1	92.8	95.1	89.7	92.8	93.9
†Hispanic					91.7	92.1	91.2	92.8	91.0	92.5	92.8
†Non-Hispanic					89.8	90.7	91.2	90.9	90.3	90.9	91.2
Diabetes	86.0	86.7	88.4	87.8	89.2	89.5	90.0	90.2	88.1	90.3	90.0
Hypertension	85.7	88.2	87.4	88.8	89.1	90.5	90.0	88.5	89.2	90.2	90.3
Glomerulonephritis	88.3	86.7	88.9	87.7	90.6	91.4	91.8	91.5	90.7	90.7	92.1
Other cause	88.2	88.6	91.1	89.6	90.4	91.4	91.9	92.3	91.9	92.1	92.1
First transplant	87.5	87.7	89.8	88.6	90.1	91.1	91.5	91.5	90.9	91.4	91.6
Subsequent transplants	87.2	85.9	83.6	88.0	89.2	88.0	88.1	87.2	85.1	88.0	89.2
All	87.5	87.6	89.3	88.5	90.0	90.9	91.2	91.1	90.4	91.1	91.4
ADJUSTED											
0-19	78.9	83.7	88.7	85.5	85.5	88.0	90.2	89.4	86.7	90.1	91.2
20-44	89.5	88.9	90.4	90.3	90.8	92.2	91.3	91.0	91.0	91.7	91.8
45-64	86.8	86.6	87.5	87.4	90.9	89.8	91.7	91.7	90.7	91.1	91.8
65-74	75.3	83.9	89.3	80.9	84.5	87.7	85.7	90.1	86.7	88.9	87.6
75+	.	50.6	.	80.4	100.0	100.0	74.9	86.1	74.5	65.2	85.5
Male	87.4	87.6	89.1	88.4	91.3	91.7	91.6	92.3	90.8	92.1	92.0
Female	86.4	86.8	89.3	88.6	88.5	89.5	90.7	89.7	90.1	90.3	91.4
White	87.9	88.0	89.7	88.8	90.8	91.1	91.5	91.8	91.2	92.0	92.4
Black	81.4	85.2	85.4	86.5	85.8	88.7	89.3	87.3	87.8	87.8	88.1
Other race	89.3	81.9	93.1	90.4	94.5	94.0	92.6	94.8	88.9	93.1	93.9
Diabetes	85.1	86.0	88.1	87.8	89.3	89.6	90.2	90.7	88.9	91.1	91.0
Hypertension	86.0	88.7	87.9	89.5	89.8	91.1	90.6	89.4	90.1	91.0	91.2
Glomerulonephritis	87.8	86.5	88.5	87.5	90.4	91.2	91.4	91.3	90.5	90.7	92.0
Other cause	87.8	88.3	90.9	89.5	90.4	91.2	91.8	92.2	91.8	92.0	92.2
First transplant	87.0	87.5	89.7	88.6	90.2	91.1	91.5	91.6	91.1	91.7	92.1
Subsequent transplants	86.1	84.7	82.2	87.3	88.2	87.0	87.0	85.9	84.3	87.4	88.5
All	86.9	87.3	89.1	88.5	90.1	90.8	91.2	91.2	90.5	91.3	91.8

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.

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
<1	100.0	75.0	57.1	80.0	73.3	70.0	69.2	68.8	65.2	77.8
1-4	60.0	88.9	50.0	52.6	87.5	81.0	77.8	76.7	70.4	96.6
5-9	78.3	84.2	51.5	48.3	77.8	78.4	70.8	70.6	65.9	75.0
10-14	72.9	65.8	57.9	78.9	72.7	66.3	72.8	77.7	73.5	87.9
15-19	72.7	75.0	84.3	75.2	74.4	77.6	74.7	78.7	76.6	81.5
20-29	81.7	79.3	75.8	76.6	81.2	81.2	81.2	79.7	80.2	80.5
30-39	81.9	72.5	75.1	76.8	81.7	79.6	85.3	84.8	81.1	85.2
40-49	71.9	68.9	75.3	76.5	76.1	83.4	88.3	82.6	85.8	85.2
50-59	66.7	66.7	73.5	80.5	79.2	84.0	89.4	82.9	78.3	80.2
60-64	.	100.0	71.4	92.3	79.4	94.9	84.0	80.0	75.9	73.9
65-69	.	100.0	0.0	80.0	100.0	83.3	85.7	82.4	70.0	85.7
70-79	.	.	.	100.0	100.0	100.0	77.8	85.7	.	.
80+	.	.	.	.	.	.	100.0	.	.	.
Male	76.4	72.6	73.7	75.3	80.2	80.8	84.1	81.2	77.9	83.8
Female	79.9	76.1	75.3	78.1	77.7	81.1	84.3	82.4	82.5	81.7
White	78.3	75.1	75.5	76.8	81.0	82.5	84.8	81.6	81.1	84.0
Black	75.3	65.3	68.2	71.4	65.5	71.8	79.8	79.5	68.7	72.4
Other race	71.4	74.4	70.8	86.7	89.6	81.0	85.8	89.2	86.8	93.0
†Hispanic										
†Non-Hispanic										
Diabetes	72.6	63.1	67.2	65.9	73.1	76.4	79.9	78.2	77.6	84.1
Hypertension	76.0	79.4	72.8	77.9	78.6	81.0	85.3	85.8	72.6	79.7
Glomerulonephritis	80.2	77.6	77.2	78.6	79.0	81.5	84.9	83.5	77.9	82.2
Other cause	77.8	73.1	75.3	79.1	82.9	83.1	85.7	80.6	84.9	84.0
First transplant	77.5	73.9	74.1	76.3	79.4	81.0	83.7	82.0	79.7	83.0
Subsequent transplants	83.7	73.8	77.5	77.6	77.5	80.2	88.5	79.1	79.6	81.5
All	77.8	73.9	74.3	76.4	79.3	80.9	84.2	81.7	79.7	82.9
ADJUSTED										
0-19	69.2	71.1	66.7	67.5	71.9	71.0	70.8	73.6	69.4	80.8
20-44	79.3	73.3	74.7	76.3	80.6	81.5	85.0	83.0	81.7	82.8
45-64	66.4	67.1	74.8	79.4	76.9	83.5	87.6	81.9	80.4	82.5
65-74	.	100.0	.	82.2	100.0	86.7	82.1	83.4	69.5	86.5
75+	.	.	.	.	.	100.0	100.0	.	.	.
Male	73.0	69.3	72.0	73.6	78.8	80.3	83.6	80.6	76.7	82.7
Female	77.6	74.1	73.6	76.8	76.6	80.5	83.6	82.0	81.9	80.9
White	75.5	72.2	73.7	75.1	79.8	81.8	84.4	81.1	80.2	83.1
Black	74.2	65.6	67.7	71.2	65.9	72.7	80.0	79.9	69.1	73.3
Other race	64.3	73.1	65.7	84.5	87.9	79.8	84.2	88.1	85.2	92.8
Diabetes	68.6	59.4	63.4	61.9	69.6	74.3	77.7	76.4	74.8	82.3
Hypertension	75.7	80.1	73.8	79.5	79.5	82.2	86.2	86.7	74.1	79.9
Glomerulonephritis	78.7	75.9	75.8	77.1	78.2	80.8	84.4	83.2	77.1	81.7
Other cause	76.4	71.3	74.5	78.3	82.3	82.8	85.4	80.4	84.3	83.2
First transplant	74.6	71.4	72.4	74.8	78.1	80.4	83.1	81.4	78.7	82.1
Subsequent transplants	80.8	70.9	75.7	75.6	75.4	78.4	87.5	77.3	77.9	80.2
All	74.8	71.2	72.5	74.8	77.9	80.3	83.6	81.1	78.6	81.9

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.

on our website & CD

Three-year probability of death with functioning graft: all transplants, living donors (F.10.1).

f transplantation: outcomes

Table F.10 (continued)

Three-year graft survival probabilities: all living donor transplants

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

UNADJUSTED	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<1	86.7	88.0	60.0	86.5	75.0	90.3	84.0	92.9	90.9	88.6	82.6	86.8
1-4	63.3	88.6	84.2	80.4	85.2	94.1	77.1	88.9	90.6	98.0	93.2	94.9
5-9	81.4	85.4	86.6	81.5	89.8	85.2	84.5	96.7	92.7	92.9	91.7	88.0
10-14	72.2	82.3	80.9	81.7	92.9	84.4	86.6	87.4	92.2	83.7	87.0	87.3
15-19	69.4	82.0	72.5	78.5	82.6	81.6	84.4	83.1	81.9	81.0	82.8	86.9
20-29	86.4	85.5	84.7	84.5	86.6	84.0	85.8	87.8	84.1	84.4	84.9	85.9
30-39	84.2	85.6	87.0	84.2	86.7	89.2	86.4	89.9	88.1	89.8	89.7	88.4
40-49	84.5	85.5	86.9	87.8	85.5	87.5	88.1	87.4	90.8	89.3	87.5	89.4
50-59	81.7	85.0	82.8	78.7	84.4	81.3	85.9	86.3	88.1	89.0	86.5	88.3
60-64	87.2	72.6	87.5	78.3	71.0	77.3	86.7	85.0	87.3	81.1	88.2	83.4
65-69	77.3	79.0	71.4	77.5	87.0	69.1	80.2	84.8	82.6	85.4	83.3	86.3
70-79	80.0	100.0	66.7	81.8	66.7	88.5	88.0	78.8	72.3	84.8	76.0	81.8
80+	.	.	100.0	.	.	.	.	.	.	100.0	50.0	75.0
Male	82.8	85.3	84.7	84.1	85.3	85.1	87.4	88.4	88.0	88.6	87.0	88.3
Female	82.3	84.2	83.9	82.3	85.6	85.0	84.5	86.3	87.2	85.9	86.8	86.7
White	83.0	85.9	85.8	84.4	86.4	85.8	87.2	88.1	88.4	88.3	87.4	88.5
Black	76.7	76.0	75.2	78.4	80.2	80.3	79.7	83.6	82.8	81.8	84.1	81.9
Other race	88.9	93.2	84.0	79.4	88.2	89.2	92.7	90.3	90.8	92.2	87.5	90.6
†Hispanic							86.9	89.7	88.0	89.5	87.9	89.7
†Non-Hispanic							86.1	87.2	87.6	87.2	86.7	87.4
Diabetes	80.3	80.2	82.6	81.6	84.3	84.3	85.3	85.2	86.0	86.5	83.5	86.5
Hypertension	80.3	83.2	82.0	83.7	82.4	83.7	84.4	86.7	84.7	84.5	84.6	87.9
Glomerulonephritis	85.4	86.3	85.2	82.8	84.6	83.6	86.9	88.3	88.4	87.4	87.1	86.6
Other cause	81.9	87.1	85.4	84.7	88.1	87.4	86.9	88.4	89.2	89.1	89.6	89.0
First transplant	83.2	85.5	84.2	83.4	85.9	85.1	86.6	87.9	87.9	87.9	87.7	88.2
Subsequent transplants	74.6	77.0	86.0	82.6	79.9	85.2	82.1	82.5	85.2	82.9	78.4	82.6
All	82.6	84.8	84.3	83.4	85.4	85.1	86.2	87.5	87.7	87.5	86.9	87.6
ADJUSTED												
0-19	68.9	81.0	74.2	77.6	83.9	82.0	81.5	84.9	85.7	82.5	83.3	85.2
20-44	85.3	85.7	86.3	85.2	87.2	87.3	86.6	88.9	87.4	87.9	87.8	88.0
45-64	82.4	84.1	84.6	82.2	82.8	83.5	87.7	86.2	89.3	87.9	87.1	88.1
65-74	72.9	81.9	69.2	78.0	82.2	75.4	81.3	83.4	80.4	86.1	81.4	86.3
75+	100.0	.	.	54.1	.	80.6	100.0	68.2	76.3	84.6	74.1	66.7
Male	81.6	84.5	83.8	83.5	85.1	85.0	87.6	88.3	88.1	88.8	87.4	88.8
Female	81.6	84.0	83.6	82.2	85.4	85.1	84.5	86.1	87.2	85.8	86.8	86.8
White	82.3	85.3	85.2	84.0	86.1	85.7	87.2	87.9	88.5	88.5	87.7	89.0
Black	77.3	76.6	75.8	78.9	80.4	80.8	80.1	84.0	83.2	82.1	84.6	82.4
Other race	87.5	92.8	82.2	77.9	87.6	88.4	92.5	90.3	90.6	91.7	86.5	91.0
Diabetes	78.1	78.7	81.6	80.7	83.8	84.2	85.5	85.5	86.4	87.3	84.5	87.6
Hypertension	80.2	83.4	82.4	84.4	83.1	84.8	85.4	87.5	85.7	85.8	85.9	88.9
Glomerulonephritis	84.7	85.8	84.6	82.4	84.2	83.3	86.5	88.0	87.9	87.0	86.8	86.6
Other cause	81.2	86.6	85.0	84.3	87.9	87.2	86.8	88.2	89.2	89.1	89.5	88.9
First transplant	82.2	84.9	83.6	83.1	85.8	85.0	86.7	87.9	88.0	88.1	88.0	88.6
Subsequent transplants	73.1	75.2	84.9	81.2	78.3	84.4	80.5	81.0	83.9	81.2	77.2	81.7
All	81.5	84.2	83.7	82.9	85.2	85.0	86.2	87.4	87.7	87.6	87.1	88.0

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.

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	50.0	57.1	60.0	60.0	70.0	61.5	56.3	60.9	77.8	86.7	88.0	60.0	86.5	68.8	80.7	80.0	89.3	90.9	85.7	
1-4	60.0	77.8	37.5	47.4	75.0	76.2	70.4	67.4	63.0	96.6	63.3	84.1	79.0	78.4	85.2	88.2	77.1	85.2	87.5	95.9	
5-9	69.6	73.7	48.5	37.9	71.1	70.6	64.6	60.8	58.5	69.6	76.3	79.3	77.6	80.0	88.1	79.0	83.1	90.0	91.2	87.1	
10-14	60.4	55.3	52.6	64.8	60.6	57.0	61.7	69.4	67.4	77.8	65.8	75.0	69.1	72.5	86.7	78.3	78.2	76.7	89.8	76.7	
15-19	60.6	70.5	70.3	66.2	63.2	64.6	64.5	67.5	70.1	68.9	59.2	75.8	65.2	61.1	70.5	72.5	73.4	68.1	69.5	73.3	
20-29	71.5	71.7	66.6	68.0	71.2	73.0	72.7	72.1	73.3	72.9	78.9	77.0	76.4	76.8	76.5	74.9	76.4	78.8	75.0	76.4	
30-39	76.3	63.5	67.1	70.4	74.6	72.3	79.1	78.8	72.2	79.5	75.9	77.9	79.8	77.5	77.4	82.4	79.5	83.5	82.2	83.6	
40-49	61.6	63.4	68.5	69.2	68.3	77.4	81.5	77.6	77.3	79.6	78.3	75.5	78.3	78.9	77.2	79.5	79.3	79.6	84.5	82.0	
50-59	54.8	57.5	64.0	72.8	73.0	78.4	84.5	77.1	68.9	73.3	69.2	72.9	74.4	70.1	77.6	73.3	76.5	77.5	78.5	83.4	
60-64	.	50.0	64.3	69.2	73.5	88.1	81.5	71.8	55.2	54.4	64.1	64.5	78.8	68.9	55.1	67.5	75.7	72.7	75.3	71.2	
65-69	.	100.0	.	80.0	100.0	58.3	80.0	70.6	70.0	85.7	68.2	79.0	63.3	60.0	76.1	59.3	74.3	73.2	68.1	71.5	
70-79	.	.	.	100.0	.	100.0	66.7	85.7	.	.	60.0	75.0	33.3	72.7	58.3	76.9	68.0	66.7	61.7	74.6	
80+	.	.	.	.	.	.	100.0	.	.	.	.	.	100.0	.	.	.	.	.	.	66.7
Male	66.5	64.7	64.9	67.4	70.6	73.0	77.3	74.9	70.4	76.3	74.9	76.8	76.9	76.1	75.9	77.5	79.5	79.3	80.8	81.3	
Female	71.6	68.1	67.3	69.8	71.0	74.1	77.1	75.0	73.7	74.9	73.6	75.8	75.4	73.5	77.2	76.5	75.2	78.4	78.4	79.0	
White	69.3	67.4	67.0	68.7	72.7	75.2	77.9	75.3	74.1	77.6	75.1	78.3	78.0	77.1	77.5	78.0	79.3	80.1	80.8	81.8	
Black	62.9	56.2	59.0	62.8	54.5	62.7	71.5	69.7	55.7	58.8	63.9	61.7	64.5	64.1	69.4	71.2	68.5	70.8	73.2	70.6	
Other race	66.7	62.8	64.6	81.7	84.4	75.0	82.5	83.9	73.5	87.3	85.6	86.4	77.7	72.0	84.2	82.5	83.3	83.8	83.1	86.9	
†Hispanic	79.1	83.2	80.8	82.6
†Non-Hispanic	77.5	78.3	79.6	80.0
Diabetes	67.0	56.4	57.5	56.3	63.3	67.9	71.6	71.0	66.4	74.6	71.1	70.2	73.2	71.2	73.8	75.7	74.6	75.2	75.0	76.4	
Hypertension	68.0	68.2	64.2	69.0	70.1	75.7	78.5	80.1	60.5	71.2	67.2	70.1	71.7	75.0	70.9	71.0	74.3	76.4	76.2	75.2	
Glomerulonephritis	70.3	67.9	67.6	71.3	71.3	73.8	78.7	76.5	71.0	75.0	78.2	76.9	77.5	74.5	75.5	76.3	77.8	79.0	80.5	80.4	
Other cause	67.8	67.0	68.4	71.3	74.3	75.6	78.9	74.1	79.0	78.5	74.6	82.1	78.6	77.7	81.4	81.1	80.9	81.7	83.4	84.2	
First transplant	68.1	65.9	65.5	68.2	70.5	73.1	76.7	75.0	72.0	75.9	75.1	77.1	76.1	75.3	77.0	77.3	78.4	79.3	80.1	80.8	
Subsequent transplants	75.5	69.1	70.0	71.0	73.5	76.6	82.2	74.1	68.3	73.1	63.8	66.9	77.7	71.4	69.7	74.6	70.3	74.1	76.7	74.7	
All	68.6	66.0	65.7	68.3	70.7	73.4	77.2	74.9	71.7	75.7	74.3	76.4	76.2	75.0	76.4	77.1	77.7	78.9	79.8	80.3	
ADJUSTED																					
0-19	56.4	63.3	56.3	56.3	59.9	60.0	60.6	62.7	62.3	71.0	61.4	74.2	64.9	66.7	74.9	73.4	73.1	72.4	78.6	75.1	
20-44	70.2	64.9	66.4	68.9	72.3	74.1	78.1	76.6	73.8	76.1	77.7	77.1	78.3	77.7	77.5	79.7	78.4	80.9	80.0	80.6	
45-64	56.8	58.6	66.5	70.8	69.7	77.9	81.8	76.7	69.9	75.0	71.3	74.4	76.7	73.7	75.7	75.5	78.8	77.9	81.0	81.6	
65-74	.	100.0	.	82.4	84.5	67.7	74.9	73.6	70.9	85.9	65.8	77.7	59.7	63.2	72.2	65.6	74.0	72.3	67.7	74.8	
75+	.	.	.	.	.	100.0	100.0	.	.	.	40.6	.	.	45.2	.	70.1	31.2	44.0	68.4	70.7
Male	62.1	60.7	62.7	65.3	68.7	72.3	76.6	74.2	68.9	74.8	73.4	75.6	75.7	75.4	75.6	77.4	79.8	79.1	81.0	81.7	
Female	68.5	65.5	65.1	68.1	69.6	73.2	76.2	74.4	72.6	73.9	72.5	75.5	74.9	73.3	77.0	76.6	75.2	78.1	78.3	78.9	
White	65.6	64.0	64.7	66.5	71.1	74.3	77.3	74.7	72.9	76.5	74.1	77.5	77.2	76.5	77.1	77.9	79.4	79.9	80.9	82.1	
Black	61.5	56.5	58.4	62.7	55.2	63.7	71.7	70.3	56.3	60.0	64.7	62.5	65.4	65.0	69.8	71.9	69.2	71.6	74.0	71.2	
Other race	58.8	60.0	59.4	78.9	82.1	73.4	80.1	82.4	70.7	87.0	83.9	85.8	75.4	70.2	83.5	81.4	83.1	83.8	83.1	86.1	
Diabetes	62.2	52.3	53.1	51.7	58.8	65.3	68.6	68.7	62.5	71.8	68.1	68.2	71.7	69.7	73.1	75.5	74.9	75.6	75.7	77.7	
Hypertension	67.8	69.1	65.6	71.2	71.4	77.3	79.9	81.3	62.5	71.5	67.1	70.6	72.4	76.0	72.0	72.9	75.8	77.8	77.8	77.1	
Glomerulonephritis	68.1	65.6	65.7	69.4	70.2	72.8	78.0	75.9	69.9	74.3	77.0	76.0	76.4	74.0	74.7	75.8	77.2	78.4	79.7	79.7	
Other cause	65.8	64.9	67.5	70.2	73.3	75.1	78.5	73.7	78.2	77.5	73.7	81.4	78.0	77.1	81.0	80.9	80.9	81.5	83.4	84.2	
First transplant	64.3	62.7	63.4	66.2	68.7	72.3	75.8	74.4	70.6	74.6	73.7	76.3	75.3	74.9	76.9	77.4	78.7	79.2	80.2	81.2	
Subsequent transplants	71.8	65.7	68.2	68.9	71.5	74.8	80.9	72.2	66.1	71.2	62.2	64.6	76.0	69.6	67.7	73.3	67.9	72.1	74.9	72.7	
All	64.6	62.6	63.5	66.3	68.9	72.5	76.4	74.2	70.2	74.4	72.9	75.5	75.3	74.4	76.1	77.0	77.8	78.7	79.8	80.5	

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.

on our website & CD

Five-year probability of death with functioning graft: all transplants, living donors (F.1.1.1).

f transplantation: outcomes

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	66.7	25.0	57.1	40.0	46.7	50.0	53.9	37.5	56.5	66.7	73.3	72.0	50.0	83.8	56.3
1-4	20.0	55.6	12.5	36.8	50.0	71.4	55.6	53.5	51.9	86.2	50.0	59.1	68.4	68.6	74.1
5-9	47.8	47.4	27.3	27.6	51.1	51.0	47.9	35.3	39.0	51.8	54.2	64.6	56.7	55.4	66.1
10-14	37.5	31.6	36.8	42.3	41.4	37.2	40.7	48.2	41.8	52.5	53.2	52.1	52.7	52.3	64.3
15-19	45.5	52.7	48.8	44.1	50.4	39.5	49.4	50.3	48.7	53.3	37.6	56.5	44.9	50.0	44.2
20-29	60.3	56.7	50.0	53.2	56.2	55.9	53.2	54.4	60.1	56.5	58.9	60.3	54.8	58.5	57.5
30-39	59.1	50.6	51.9	54.8	55.5	52.3	58.0	56.3	52.7	61.2	61.2	60.1	58.8	59.8	59.8
40-49	45.2	45.3	51.0	53.6	48.1	55.4	57.3	52.7	54.6	56.3	57.2	57.6	59.8	55.8	53.8
50-59	33.3	40.2	42.2	55.0	53.1	50.5	54.4	52.8	49.1	49.2	42.8	46.2	48.9	46.2	49.8
60-64	.	50.0	50.0	46.2	50.0	64.4	56.8	38.8	37.9	26.1	28.2	38.7	38.8	38.7	32.7
65-69	.	100.0	.	60.0	60.0	33.3	45.7	41.2	30.0	42.9	50.0	63.2	44.9	25.0	37.0
70-79	.	.	.	.	.	33.3	22.2	42.9	.	.	60.0	25.0	33.3	27.3	50.0
80+	.	.	.	.	.	.	100.0	.	.	.	.	100.0	.	.	.
Male	51.9	49.2	47.5	50.7	52.8	51.2	54.5	51.8	52.1	56.7	55.7	59.3	55.9	56.9	53.9
Female	54.7	51.8	50.0	53.8	52.4	54.3	55.3	53.8	54.8	55.7	53.9	54.6	53.8	52.3	55.7
White	53.6	51.6	49.8	53.5	54.4	54.3	56.5	54.1	56.3	58.5	56.5	59.9	57.2	57.7	56.1
Black	46.1	40.5	39.2	39.3	37.4	38.9	42.7	40.4	31.3	37.7	38.8	38.0	39.4	40.1	44.6
Other race	61.9	48.8	54.2	63.3	66.2	60.7	61.7	64.6	55.9	66.2	65.6	68.2	62.8	55.1	67.1
†Hispanic															
†Non-Hispanic															
Diabetes	46.2	36.9	36.7	38.2	38.5	39.7	42.3	41.2	43.0	49.9	46.4	44.4	44.6	44.5	45.5
Hypertension	56.0	57.0	45.1	50.0	50.9	47.9	52.5	50.8	40.0	46.2	48.0	49.3	47.4	54.0	46.5
Glomerulonephritis	54.3	52.3	51.7	55.7	53.7	55.7	57.7	56.0	53.1	56.7	58.0	59.9	56.6	54.1	56.7
Other cause	53.4	51.2	51.9	55.6	59.5	58.7	60.8	56.8	63.3	62.8	59.3	66.2	62.4	62.2	62.2
First transplant	52.6	49.6	48.4	51.9	52.1	52.3	55.0	53.4	53.4	56.8	55.6	57.8	55.4	55.0	55.4
Subsequent transplants	59.2	64.3	48.8	51.4	58.9	53.7	53.3	44.8	50.0	48.7	45.7	51.7	49.7	54.5	46.3
All	53.0	50.2	48.4	51.9	52.6	52.4	54.8	52.6	53.1	56.3	54.9	57.3	55.0	55.0	54.7
ADJUSTED															
0-19	36.8	42.6	36.6	36.0	42.9	38.6	43.7	43.2	41.2	52.2	42.5	52.9	46.5	51.5	50.3
20-44	56.0	50.6	51.0	53.7	54.6	55.3	57.3	56.2	56.8	58.6	60.6	59.9	57.7	59.2	59.5
45-64	36.0	40.2	44.8	53.4	49.7	52.7	54.5	50.1	48.7	48.8	43.9	51.6	52.2	49.5	49.6
65-74	.	100.0	.	51.1	59.2	41.0	42.5	42.3	29.3	42.1	50.7	56.8	45.6	32.3	42.4
75+	.	.	.	.	.	.	1.9	.	.	.	50.3	.	.	92.9	.
Male	46.8	44.7	45.2	48.4	50.5	50.4	53.5	51.0	50.0	54.5	53.7	57.5	54.3	55.8	53.6
Female	50.0	48.5	47.0	51.2	50.1	52.9	54.0	53.0	52.7	54.1	52.1	54.1	53.2	52.0	55.6
White	48.8	47.2	47.1	50.8	52.4	53.2	55.6	53.3	54.5	56.8	55.0	58.7	55.9	56.7	55.7
Black	44.2	41.0	38.2	38.9	38.1	39.7	42.7	41.0	31.8	39.2	39.9	39.0	40.7	41.3	45.2
Other race	53.0	45.3	48.7	57.7	61.7	58.1	57.2	62.0	52.1	65.7	61.2	66.9	59.3	52.7	65.7
Diabetes	39.9	32.8	31.9	33.1	33.4	36.3	38.2	38.0	37.8	45.6	42.0	41.4	42.6	42.3	44.5
Hypertension	55.6	57.9	46.5	53.1	52.3	50.6	54.8	53.0	41.8	46.8	47.4	50.2	48.5	55.5	48.2
Glomerulonephritis	51.1	49.5	49.4	53.3	52.3	54.2	56.6	55.4	51.6	55.3	55.8	58.4	54.8	53.3	55.5
Other cause	50.9	48.6	51.2	54.3	58.4	58.1	60.2	56.4	62.0	61.5	58.1	65.1	61.5	61.4	61.8
First transplant	47.8	45.8	45.9	49.5	49.7	51.3	53.8	52.6	51.4	54.9	53.6	56.5	54.3	54.4	55.3
Subsequent transplants	54.7	61.1	47.1	49.8	57.1	51.8	51.5	43.3	47.6	46.3	45.4	49.7	47.9	53.4	45.1
All	48.0	46.1	45.8	49.4	50.3	51.3	53.6	51.7	50.9	54.3	52.8	55.9	53.7	54.1	54.3

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.

on our website & CD

Ten-year probability of death with functioning graft: all transplants, living donors (F.12.1).

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
<1	14.3	.	.	20.6	29.3	13.6	7.1	16.2	27.3	33.3	14.3	22.2
1-4	25.0	.	23.8	8.2	24.2	33.1	14.0	14.1	27.0	13.7	22.4	18.2
5-9	12.7	2.4	13.6	16.7	10.6	15.0	20.3	16.7	19.5	16.9	26.1	17.2
10-14	8.5	12.3	18.7	13.9	11.1	10.1	13.8	13.4	19.3	14.8	15.7	10.6
15-19	6.7	11.8	11.5	13.3	12.8	14.5	10.5	13.0	18.3	11.2	12.3	15.2
20-29	9.8	11.3	13.4	13.0	13.3	12.9	12.9	11.2	15.3	12.2	11.5	10.5
30-39	10.0	9.1	13.7	12.1	12.2	10.8	11.5	12.5	12.1	12.4	11.4	9.0
40-49	10.9	7.9	12.1	12.7	11.7	11.0	10.9	12.3	13.6	10.2	10.4	9.7
50-59	10.8	9.0	11.9	13.5	7.9	9.6	9.2	10.0	9.5	10.1	8.0	8.5
60-64	16.0	9.4	14.5	5.7	5.8	11.0	8.1	6.5	10.4	7.1	7.1	7.5
65-69	.	.	.	10.6	4.0	2.6	2.0	12.7	8.7	5.7	8.5	6.9
70-79	.	.	.	.	16.7	16.7	10.0	.	15.0	9.2	10.9	3.3
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	10.7	9.6	13.7	12.6	11.5	10.3	10.5	11.2	12.6	10.9	10.1	9.1
Female	9.0	9.0	12.1	12.7	11.6	13.3	12.2	12.3	13.1	11.3	10.9	9.8
White	9.0	8.6	12.1	11.7	11.4	11.1	10.8	11.7	12.7	10.6	10.2	9.2
Black	13.9	11.7	16.4	15.4	13.1	12.8	12.8	11.5	14.4	13.3	11.6	10.4
Other race	11.8	12.2	13.8	14.3	2.9	7.8	6.4	10.8	7.9	6.1	8.2	7.6
†Hispanic												
†Non-Hispanic												
Diabetes	9.3	6.0	8.4	9.0	8.4	9.0	9.7	10.0	11.5	8.7	9.9	8.1
Hypertension	12.7	10.0	16.9	12.9	10.8	9.7	11.1	10.6	12.3	11.4	9.2	8.5
Glomerulonephritis	10.1	9.6	14.7	15.5	14.1	13.4	11.9	12.8	14.0	12.8	11.4	9.8
Other cause	9.6	10.2	12.3	11.7	11.1	11.9	11.4	12.1	13.0	10.9	10.7	10.7
First transplant	9.4	8.5	12.6	11.5	9.9	10.0	9.8	10.5	11.6	10.0	9.7	8.5
Subsequent txs	16.1	16.2	17.3	20.5	20.3	18.4	18.6	18.5	20.6	17.4	14.8	15.0
All	10.1	9.4	13.1	12.6	11.5	11.4	11.1	11.6	12.8	11.0	10.4	9.4
ADJUSTED												
0-19	9.2	10.6	15.0	14.3	13.7	15.5	12.8	14.4	20.1	13.8	16.2	14.7
20-44	10.8	10.1	13.7	12.9	12.3	11.6	12.0	12.1	13.3	11.7	11.4	9.4
45-64	11.0	8.7	12.2	12.3	9.6	9.9	9.4	10.1	11.3	10.1	8.2	9.1
65-74	.	.	.	10.9	7.6	2.6	3.7	12.2	10.9	7.0	10.3	6.9
75+	.	.	.	.	.	22.7	.	.	.	.	.	.
Male	10.1	9.0	12.9	11.7	10.6	9.5	9.9	10.4	12.1	10.5	9.7	8.8
Female	8.8	8.6	11.4	12.0	10.9	12.5	11.4	11.9	12.9	10.9	10.6	9.7
White	8.3	8.0	11.3	10.9	10.6	10.2	10.1	11.0	12.2	10.2	9.8	9.0
Black	12.7	10.4	14.6	13.7	11.5	11.5	11.5	10.3	13.2	12.2	10.5	9.4
Other race	13.3	12.8	14.6	15.2	3.0	7.8	6.8	11.2	8.3	6.3	8.5	7.7
Diabetes	9.5	6.2	9.1	9.7	8.9	9.3	10.2	10.5	12.2	9.3	10.6	8.8
Hypertension	10.5	8.3	13.7	10.6	8.7	8.1	9.2	9.0	10.4	9.9	8.0	7.4
Glomerulonephritis	9.2	8.7	13.8	14.2	12.9	12.3	11.1	12.0	13.4	12.2	10.9	9.4
Other cause	9.4	9.6	11.4	11.0	10.5	10.9	10.6	11.4	12.9	10.6	10.3	10.6
First transplant	9.0	8.1	11.9	10.9	9.5	9.5	9.4	10.1	11.4	9.8	9.5	8.4
Subsequent txs	14.9	14.7	15.7	18.1	18.4	16.8	16.7	16.5	19.1	16.1	13.8	14.1
All	9.7	8.9	12.4	11.8	10.8	10.6	10.5	11.0	12.5	10.7	10.1	9.2

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 transplantation: outcomes

Table F.13 (continued)

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	21.4	25.0	.	.	.	.	.	.	33.3	.	.	.
1-4	9.4	6.9	.	16.7	11.0	18.8	4.2	9.4	8.0	4.2	13.3	.
5-9	9.2	15.4	10.2	10.5	7.3	3.2	6.2	12.4	4.6	1.8	6.0	3.1
10-14	13.8	6.1	11.9	10.2	2.1	3.9	7.0	4.3	2.2	4.4	3.1	3.6
15-19	12.6	11.2	10.0	8.4	9.6	5.6	11.1	6.6	6.9	5.5	5.2	3.4
20-29	9.6	10.6	8.7	6.5	7.6	4.2	5.5	5.1	5.4	4.9	3.3	5.1
30-39	8.5	10.0	8.3	6.3	5.5	4.9	4.1	5.1	4.5	4.3	4.1	4.1
40-49	8.6	8.5	7.3	6.3	5.2	4.1	4.3	3.3	4.3	3.5	4.0	3.2
50-59	7.8	7.9	7.0	5.6	4.9	4.2	4.5	4.2	3.5	3.4	4.1	3.5
60-64	5.5	6.0	6.8	4.3	4.8	2.8	4.7	5.3	3.1	2.9	3.6	4.7
65-69	5.6	4.4	7.0	4.8	5.5	4.9	4.2	3.5	4.2	4.8	3.3	3.2
70-79	9.5	9.8	4.8	5.1	6.9	3.9	4.7	7.6	3.2	4.8	2.8	3.1
80+	.	.	.	.	.	.	.	.	14.3	.	12.5	.
Male	8.3	8.3	6.9	5.9	5.7	3.7	4.7	4.0	3.6	3.9	3.8	3.5
Female	8.5	9.6	8.8	6.4	5.3	5.2	4.5	5.2	5.0	3.8	4.0	3.9
White	8.0	8.8	7.8	6.2	5.3	4.2	4.7	4.3	3.9	3.8	3.5	3.0
Black	10.0	9.4	7.5	6.0	6.4	4.8	4.8	5.2	5.0	4.2	4.9	5.2
Other race	7.3	5.7	7.5	4.5	4.1	2.6	2.9	4.1	3.4	3.0	3.7	3.4
†Hispanic	.	.	.	.	5.3	3.3	4.0	3.7	2.9	3.1	2.9	2.8
†Non-Hispanic	.	.	.	.	5.6	4.4	4.7	4.6	4.3	4.0	4.1	3.8
Diabetes	7.4	6.8	5.8	4.5	4.0	3.7	3.5	3.4	3.3	2.7	3.2	3.0
Hypertension	8.3	8.9	7.4	5.4	5.0	4.7	4.1	4.4	4.3	3.8	4.1	4.0
Glomerulonephritis	8.3	10.2	9.1	7.0	6.2	4.6	5.5	5.1	4.5	5.1	4.5	4.3
Other cause	9.4	9.4	8.3	7.3	6.9	4.3	5.2	5.2	4.5	4.1	4.1	3.6
First transplant	7.6	8.1	7.1	5.6	5.2	3.8	4.2	4.1	3.7	3.5	3.8	3.4
Subsequent txs	13.3	14.2	11.9	9.7	8.3	7.4	7.2	7.0	7.0	6.1	4.9	5.7
All	8.4	8.8	7.7	6.1	5.5	4.3	4.6	4.5	4.1	3.9	3.9	3.7
ADJUSTED												
0-19	12.7	11.2	9.5	9.6	7.4	6.1	8.1	6.9	6.0	4.6	5.5	3.3
20-44	8.4	9.7	7.8	6.3	5.7	4.4	4.1	4.4	4.5	4.0	3.5	3.7
45-64	8.2	8.1	7.2	5.5	5.1	3.8	4.8	4.3	3.6	3.3	4.1	3.6
65-74	6.6	5.7	6.8	5.4	6.1	4.8	4.6	4.7	3.8	5.0	3.1	3.3
75+	8.4	17.4	6.0	.	4.4	6.2	4.7	6.5	9.8	4.7	4.9	2.7
Male	8.1	8.2	6.7	5.8	5.7	3.6	4.6	4.1	3.6	3.9	3.9	3.6
Female	8.5	9.6	8.7	6.3	5.3	5.2	4.6	5.3	5.0	3.9	4.1	3.9
White	7.8	8.7	7.6	6.2	5.4	4.2	4.7	4.4	4.0	3.9	3.7	3.1
Black	9.2	8.8	7.0	5.7	6.1	4.6	4.6	5.0	4.9	4.1	4.8	5.2
Other race	7.4	6.0	7.8	4.6	4.0	2.7	3.1	4.3	3.6	3.1	3.8	3.5
Diabetes	8.1	7.3	6.3	4.8	4.3	4.0	3.8	3.7	3.7	2.9	3.6	3.3
Hypertension	7.4	8.1	6.6	4.8	4.5	4.2	3.8	4.0	4.0	3.5	3.8	3.6
Glomerulonephritis	7.9	9.9	8.6	6.7	6.0	4.4	5.4	4.9	4.4	4.9	4.4	4.2
Other cause	9.4	9.5	8.0	7.2	6.9	4.4	5.3	5.2	4.6	4.2	4.1	3.7
First transplant	7.6	8.1	6.9	5.5	5.1	3.8	4.3	4.2	3.8	3.6	3.9	3.5
Subsequent txs	12.5	13.5	11.1	9.2	7.9	7.1	6.8	6.7	6.7	5.9	4.8	5.5
All	8.2	8.8	7.5	6.0	5.5	4.3	4.6	4.6	4.2	3.9	4.0	3.7

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.

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
<1	14.3	.	.	28.5	29.3	13.6	22.6	16.2	27.3	33.3	31.4	22.2
1-4	25.0	20.0	33.3	25.1	28.4	39.8	31.9	23.0	43.2	20.9	25.1	22.1
5-9	23.1	17.5	29.6	28.8	21.3	19.6	29.7	32.5	25.6	19.5	30.7	20.3
10-14	24.7	21.9	27.5	32.8	23.3	16.7	23.7	19.8	26.3	24.5	23.6	18.1
15-19	18.0	21.6	23.2	23.9	24.7	29.1	20.6	23.1	27.3	21.4	19.2	21.7
20-29	25.5	25.3	23.2	25.1	23.3	20.4	22.2	19.2	22.1	16.7	16.6	14.6
30-39	24.7	25.4	25.7	26.5	20.8	19.1	19.8	20.0	18.1	17.3	15.7	12.8
40-49	25.2	22.0	24.6	25.1	21.8	18.9	19.9	20.1	19.6	15.6	15.1	13.2
50-59	26.1	24.1	22.6	27.4	16.2	16.7	15.4	15.3	13.8	13.4	12.5	11.6
60-64	36.3	27.6	32.2	16.7	11.2	17.7	14.3	14.9	13.1	11.0	10.8	9.4
65-69	11.1	14.3	.	17.0	19.4	17.0	8.5	24.6	14.3	12.6	13.3	8.2
70-79	.	50.0	.	.	16.7	16.7	10.0	.	17.8	9.2	17.5	10.3
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	25.1	23.9	25.3	26.4	20.7	18.5	19.1	18.9	18.7	15.5	15.0	12.6
Female	24.1	24.1	23.3	24.8	21.1	21.0	20.2	19.6	18.6	16.5	15.4	13.4
White	22.5	21.6	22.7	23.4	19.9	18.6	18.4	18.8	17.8	14.7	14.3	12.3
Black	32.3	33.1	31.1	33.7	25.4	22.8	24.0	20.5	22.7	21.3	18.4	15.6
Other race	28.8	21.6	21.7	25.1	9.8	13.0	13.3	17.3	12.7	8.4	12.0	9.1
†Hispanic												
†Non-Hispanic												
Diabetes	24.4	18.5	20.6	24.1	18.6	16.3	17.1	16.7	16.9	12.6	14.6	11.2
Hypertension	29.5	28.8	29.4	26.5	21.3	19.3	19.7	20.5	18.9	16.6	15.2	12.5
Glomerulonephritis	25.8	26.6	27.2	27.0	22.3	20.2	20.5	20.4	19.6	17.8	15.9	13.4
Other cause	22.8	22.5	22.2	25.4	20.5	20.6	20.2	18.9	18.7	16.2	14.8	14.2
First transplant	23.7	22.8	23.7	24.5	19.2	17.3	18.0	18.0	17.1	14.6	14.3	12.1
Subsequent txs	33.4	33.1	31.4	34.8	30.2	29.9	28.2	26.4	27.9	24.1	20.4	18.4
All	24.7	24.0	24.6	25.8	20.8	19.4	19.5	19.2	18.6	15.9	15.1	12.9
ADJUSTED												
0-19	22.2	22.2	26.4	28.0	25.1	25.7	23.8	24.1	28.7	22.1	22.8	20.5
20-44	26.4	25.9	25.3	26.4	21.8	19.5	21.1	19.8	19.7	16.7	16.1	13.3
45-64	26.8	24.1	24.4	25.4	18.3	17.3	16.2	17.0	15.9	14.3	12.6	12.0
65-74	10.0	22.0	.	17.3	22.1	17.8	9.5	23.4	16.4	13.4	15.7	9.6
75+	.	.	.	.	.	22.7	.	.	.	.	10.7	.
Male	24.0	22.9	23.7	24.5	19.2	17.0	18.1	17.8	18.0	15.0	14.4	12.3
Female	23.1	22.9	21.8	23.5	20.1	19.8	19.0	18.9	18.1	16.0	15.1	13.3
White	21.0	20.2	21.2	21.8	18.6	17.2	17.4	17.9	17.2	14.1	13.8	12.1
Black	29.7	29.9	27.8	30.3	22.6	20.5	21.7	18.7	20.8	19.6	16.8	14.3
Other race	31.6	22.6	22.9	26.5	10.2	13.0	14.0	18.0	13.3	8.6	12.4	9.2
Diabetes	25.6	19.7	22.0	25.5	19.9	17.0	17.9	17.7	17.8	13.4	15.6	12.0
Hypertension	24.6	24.0	23.9	22.0	17.3	16.3	16.4	17.4	16.2	14.4	13.4	11.1
Glomerulonephritis	23.8	24.7	25.4	25.0	20.6	18.6	19.4	19.4	18.9	17.0	15.2	12.8
Other cause	22.1	21.5	20.6	23.8	19.4	18.9	18.9	17.9	18.6	15.8	14.4	14.1
First transplant	22.8	21.8	22.3	23.3	18.3	16.4	17.4	17.4	16.9	14.4	14.0	12.0
Subsequent txs	30.8	30.8	28.7	30.9	27.4	27.2	25.5	23.9	25.8	22.3	19.0	17.2
All	23.8	23.0	23.1	24.3	19.6	18.1	18.5	18.3	18.1	15.4	14.7	12.7

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 transplantation: outcomes

Table F.14 (continued)

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	21.4	25.0	.	.	.	.	.	.	33.3	.	.	.
1-4	18.8	14.1	.	20.8	13.9	18.8	4.2	9.4	16.4	4.2	16.9	.
5-9	9.2	18.7	13.6	10.5	13.1	4.9	7.7	14.3	6.9	3.6	7.5	7.7
10-14	17.5	9.8	11.9	13.7	4.2	5.9	9.0	7.7	5.6	10.1	6.1	6.4
15-19	18.4	16.2	15.4	16.5	14.6	8.5	17.9	11.1	11.6	8.8	7.5	7.7
20-29	14.9	14.5	12.9	9.8	10.6	8.4	7.7	7.9	8.6	7.3	7.3	8.1
30-39	12.7	14.2	12.1	10.0	8.0	7.4	6.3	8.3	6.5	6.6	6.5	6.9
40-49	11.3	11.9	10.6	9.1	8.3	6.7	6.1	5.8	7.0	5.9	6.6	5.4
50-59	11.3	11.4	10.0	8.0	7.5	6.0	7.0	7.2	5.8	5.9	5.9	5.6
60-64	9.2	9.4	9.2	7.4	7.4	5.1	7.1	7.4	5.9	5.5	6.1	7.1
65-69	7.2	10.3	11.2	7.2	8.0	7.8	7.5	6.0	7.0	7.0	7.5	4.7
70-79	9.5	15.3	8.2	10.5	9.1	4.6	8.6	10.6	5.6	7.7	6.0	6.4
80+	.	.	.	.	.	.	.	.	14.3	.	25.0	6.7
Male	11.9	12.0	10.5	9.5	8.4	6.2	7.1	7.1	6.4	6.2	6.7	6.1
Female	12.3	13.6	12.1	8.9	8.3	7.7	6.6	7.6	7.2	6.4	6.2	6.1
White	11.3	12.2	10.8	9.1	7.7	6.3	6.5	6.4	5.6	5.7	5.7	4.9
Black	15.0	14.7	12.4	10.2	10.1	8.8	8.8	9.9	9.7	8.0	8.5	8.6
Other race	9.4	9.7	8.8	6.6	8.3	3.4	4.3	5.4	5.7	5.3	5.6	6.4
†Hispanic					7.8	5.4	4.9	5.3	5.4	4.2	4.8	5.0
†Non-Hispanic					8.4	6.9	7.2	7.5	6.9	6.6	6.8	6.3
Diabetes	10.9	10.0	9.0	6.6	6.1	6.0	5.4	5.2	5.8	4.4	5.6	5.2
Hypertension	12.6	12.4	11.3	9.1	8.7	8.1	8.0	7.5	8.4	7.3	7.7	6.7
Glomerulonephritis	12.4	14.1	13.1	10.8	9.4	7.0	7.6	9.2	7.3	7.5	7.0	7.3
Other cause	12.5	14.0	11.2	10.7	9.5	6.5	7.2	7.6	6.2	6.7	6.3	5.8
First transplant	11.3	11.9	10.3	8.6	7.9	6.2	6.4	6.7	6.3	5.7	6.3	5.6
Subsequent txs	17.0	17.9	16.5	13.7	11.4	10.8	10.9	11.8	9.7	10.7	8.2	10.1
All	12.1	12.6	11.1	9.3	8.4	6.8	6.9	7.3	6.7	6.3	6.5	6.1
ADJUSTED												
0-19	17.6	15.7	12.8	15.0	11.6	8.2	12.3	10.4	10.3	8.0	7.9	7.0
20-44	12.5	13.6	11.6	9.6	8.5	7.3	6.1	7.4	6.8	6.3	6.1	6.3
45-64	11.5	11.6	10.2	8.1	7.7	6.1	7.1	6.9	6.2	5.7	6.3	5.8
65-74	8.2	11.5	11.2	8.5	8.5	7.1	8.2	7.4	6.7	7.5	7.3	5.5
75+	8.4	29.8	6.0	11.5	13.6	9.8	7.2	8.8	9.8	7.3	8.1	6.6
Male	11.6	11.9	10.2	9.3	8.4	6.1	7.2	7.1	6.5	6.2	6.8	6.3
Female	12.2	13.7	11.8	8.8	8.2	7.8	6.7	7.7	7.3	6.6	6.3	6.1
White	11.1	12.1	10.7	9.1	7.8	6.4	6.6	6.6	5.8	5.9	5.9	5.2
Black	13.8	13.8	11.6	9.6	9.6	8.5	8.4	9.6	9.4	7.8	8.4	8.6
Other race	9.5	10.1	9.2	6.7	8.5	3.6	4.6	5.7	6.0	5.5	5.9	6.7
Diabetes	11.8	10.8	9.7	7.1	6.6	6.5	5.9	5.7	6.4	4.8	6.1	5.6
Hypertension	11.2	11.2	10.2	8.2	7.8	7.3	7.2	7.0	7.6	6.7	7.1	6.2
Glomerulonephritis	11.8	13.7	12.3	10.3	9.1	6.7	7.4	8.8	7.0	7.2	6.8	7.1
Other cause	12.5	14.1	10.8	10.5	9.5	6.6	7.2	7.6	6.3	6.8	6.3	5.9
First transplant	11.2	11.9	10.1	8.5	7.9	6.3	6.5	6.8	6.4	5.8	6.4	5.7
Subsequent txs	15.9	17.1	15.5	13.1	10.9	10.3	10.4	11.3	9.4	10.2	7.9	9.9
All	11.9	12.6	10.8	9.1	8.3	6.8	7.0	7.4	6.8	6.4	6.6	6.2

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.

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
<1	57.1	.	.	44.4	29.3	18.7	22.6	16.2	27.3	33.3	31.4	22.2
1-4	50.0	20.0	42.9	29.5	28.4	39.8	35.5	28.9	43.2	20.9	28.1	26.2
5-9	30.4	28.0	38.6	33.7	25.5	27.5	39.2	38.3	30.2	23.5	33.8	25.0
10-14	35.2	33.1	32.0	43.0	29.8	29.3	35.4	29.5	36.8	30.3	30.6	24.6
15-19	26.4	30.8	36.3	28.2	31.3	37.0	29.9	30.9	35.1	30.0	25.6	29.9
20-29	32.5	32.7	30.6	32.0	29.6	27.4	29.1	26.6	29.7	22.5	23.4	18.9
30-39	31.8	33.8	33.8	32.9	28.0	25.6	26.7	26.8	23.7	22.8	20.6	16.3
40-49	34.2	28.0	31.7	31.9	27.9	24.5	25.7	25.3	24.2	19.9	19.1	16.5
50-59	34.7	31.7	28.8	34.6	21.6	20.1	19.9	19.6	17.5	16.7	15.1	14.3
60-64	40.5	38.2	36.5	20.2	18.1	24.3	18.8	19.0	15.6	14.5	13.4	11.0
65-69	33.3	28.6	.	23.9	19.4	20.6	11.0	24.6	18.9	16.2	13.9	10.6
70-79	.	50.0	.	33.3	16.7	16.7	10.0	.	17.8	16.8	17.5	14.0
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	32.5	31.7	32.8	33.3	27.1	24.6	25.4	25.2	24.1	20.3	19.4	16.0
Female	33.4	31.5	31.0	31.0	27.3	27.2	26.6	25.1	23.5	21.2	19.5	16.9
White	29.7	28.5	29.5	29.5	25.5	23.2	23.4	23.4	21.6	18.2	17.7	14.8
Black	43.8	42.7	41.4	42.9	34.4	33.6	34.7	31.4	32.3	30.0	25.5	22.4
Other race	34.8	36.7	28.0	29.4	14.7	20.0	17.2	22.1	17.0	13.9	16.5	11.8
†Hispanic												
†Non-Hispanic												
Diabetes	29.7	25.0	27.2	30.9	25.3	20.2	22.4	21.9	21.4	16.2	18.6	13.5
Hypertension	40.3	36.2	38.3	34.5	29.9	29.3	28.2	28.9	25.5	23.9	20.9	17.4
Glomerulonephritis	33.8	34.1	35.0	34.3	28.7	26.3	27.6	26.2	25.0	23.2	20.8	17.5
Other cause	30.9	30.8	29.4	30.9	25.7	26.4	25.5	24.2	23.5	19.9	18.1	17.0
First transplant	31.6	30.5	31.2	30.9	25.4	23.2	23.9	24.0	22.3	19.5	18.4	15.3
Subsequent txs	42.9	41.1	39.5	43.1	37.2	37.4	37.5	32.1	33.5	28.1	26.1	22.9
All	32.8	31.7	32.1	32.5	27.2	25.5	25.9	25.1	23.8	20.7	19.5	16.4
ADJUSTED												
0-19	32.7	32.2	36.2	34.6	30.9	34.3	33.4	31.8	36.0	28.4	28.5	27.2
20-44	33.9	33.5	33.0	33.2	28.6	25.9	27.8	26.4	25.5	22.2	21.4	17.0
45-64	36.1	32.0	30.8	32.0	23.7	22.0	21.0	21.6	19.8	17.8	15.6	14.7
65-74	28.9	33.6	.	30.4	21.9	21.4	11.7	23.2	20.3	18.0	16.0	12.5
75+	.	.	.	.	.	23.7	.	.	.	.	10.8	.
Male	31.0	30.3	30.7	30.9	25.1	22.6	24.1	23.7	23.2	19.7	18.6	15.6
Female	31.8	30.0	29.0	29.4	25.9	25.6	25.0	24.1	22.9	20.6	19.2	16.6
White	27.8	26.7	27.6	27.5	23.9	21.5	22.2	22.1	20.9	17.5	17.1	14.5
Black	40.2	38.6	37.1	38.6	30.6	30.5	31.5	28.8	29.7	27.5	23.4	20.5
Other race	38.1	37.9	29.4	30.9	15.2	20.0	18.1	22.9	17.7	14.1	17.0	11.8
Diabetes	30.9	26.4	28.9	32.3	26.8	20.9	23.4	23.2	22.4	17.3	19.8	14.5
Hypertension	33.8	30.3	31.4	28.8	24.3	25.1	23.6	24.5	21.9	20.9	18.4	15.5
Glomerulonephritis	31.2	31.6	32.7	31.8	26.4	24.2	26.1	24.9	24.1	22.1	19.9	16.7
Other cause	29.8	29.5	27.3	29.1	24.3	24.2	23.9	22.9	23.2	19.3	17.6	16.9
First transplant	30.3	29.1	29.3	29.4	24.2	22.0	23.0	23.2	21.9	19.1	18.0	15.2
Subsequent txs	39.4	38.2	36.1	38.4	33.7	34.1	34.1	29.1	31.0	26.0	24.3	21.4
All	31.4	30.3	30.2	30.5	25.5	23.8	24.5	23.9	23.1	20.1	18.9	16.0

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 transplantation: outcomes

Table F.15 (continued)

Two-year probability of graft failure necessitating dialysis or retransplantation: all deceased donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	29.3	25.0	.	.	.	28.6	.	.	33.3	.	.
1-4	18.8	14.1	0.0	29.2	16.8	18.8	8.3	9.4	20.6	4.2	16.9
5-9	11.5	21.9	13.6	14.1	14.6	6.5	9.3	16.2	9.3	7.2	13.7
10-14	28.8	15.9	17.9	18.1	10.6	10.8	14.1	14.6	6.7	15.9	9.2
15-19	24.4	23.0	24.7	23.7	24.8	15.0	23.5	17.0	22.8	15.4	18.5
20-29	20.2	19.3	17.8	15.4	16.4	13.0	13.2	14.1	15.5	11.2	12.3
30-39	16.4	18.7	15.9	13.2	11.4	11.3	9.2	11.0	11.1	10.0	10.3
40-49	14.8	15.1	13.8	11.5	11.8	10.1	9.1	8.6	10.2	8.9	9.6
50-59	14.7	14.3	12.3	10.1	9.8	8.4	9.9	9.5	8.5	8.7	8.9
60-64	11.7	10.7	11.6	9.7	9.1	7.5	8.9	9.7	7.5	7.8	9.4
65-69	10.5	12.3	13.2	8.8	9.4	11.4	8.1	8.7	8.3	9.1	10.3
70-79	9.5	18.9	9.2	13.0	11.3	6.2	11.1	13.9	8.0	8.4	7.9
80+	.	50.0	.	.	.	.	.	.	31.4	.	37.5
Male	16.2	15.7	13.9	12.5	11.8	9.9	9.9	9.8	9.7	9.0	10.1
Female	15.5	17.0	15.6	12.1	11.6	10.6	10.0	11.1	11.2	9.7	9.7
White	14.2	14.9	13.3	11.3	10.1	8.9	8.6	8.7	8.5	7.7	8.3
Black	22.2	21.7	18.3	15.9	16.1	14.1	14.3	15.3	15.1	13.3	14.1
Other race	11.8	11.0	12.2	8.2	11.0	6.6	7.0	7.2	8.7	7.5	8.0
†Hispanic					10.6	8.1	7.4	7.5	8.2	7.1	7.7
†Non-Hispanic					11.8	10.4	10.3	10.7	10.6	9.6	10.3
Diabetes	13.6	13.0	11.0	8.7	8.5	8.7	7.8	7.5	8.7	6.5	8.3
Hypertension	17.7	18.0	16.1	13.7	13.6	12.5	12.1	11.8	12.3	11.3	12.5
Glomerulonephritis	17.0	17.5	17.3	13.9	13.9	11.2	11.2	12.9	11.5	11.0	10.6
Other cause	15.6	17.0	14.3	13.5	11.8	9.0	9.7	10.1	9.5	9.4	9.4
First transplant	15.1	15.5	13.6	11.5	11.3	9.5	9.3	9.7	9.6	8.5	9.7
Subsequent txs	21.0	21.7	21.0	18.1	15.2	14.7	14.8	15.2	15.2	14.7	11.9
All	15.9	16.2	14.6	12.3	11.7	10.1	9.9	10.3	10.3	9.3	9.9
ADJUSTED											
0-19	24.0	21.3	19.4	21.0	18.6	13.5	16.9	15.6	17.2	13.5	15.1
20-44	16.7	17.9	15.5	13.3	12.4	11.3	9.5	11.0	11.3	9.4	9.7
45-64	14.7	14.3	12.7	10.2	10.4	8.6	9.8	9.2	8.9	8.6	9.4
65-74	10.9	14.0	13.0	10.2	10.0	10.5	9.4	10.5	8.3	9.3	10.1
75+	8.6	37.6	6.2	17.9	18.7	9.9	7.2	8.9	17.3	7.4	9.4
Male	15.7	15.6	13.4	12.2	11.7	9.7	10.0	9.9	9.8	9.0	10.2
Female	15.4	17.0	15.3	11.9	11.5	10.7	10.1	11.2	11.3	9.8	9.8
White	13.9	14.8	13.1	11.2	10.2	9.0	8.7	8.9	8.7	8.0	8.6
Black	20.4	20.3	17.2	15.0	15.3	13.5	13.8	14.8	14.6	13.0	13.9
Other race	11.8	11.5	12.6	8.2	11.3	6.8	7.3	7.5	9.1	7.7	8.4
Diabetes	14.7	14.1	11.8	9.4	9.1	9.3	8.5	8.2	9.6	7.2	9.1
Hypertension	15.8	16.3	14.6	12.3	12.2	11.3	11.0	10.9	11.2	10.4	11.5
Glomerulonephritis	16.2	17.0	16.3	13.4	13.4	10.9	11.0	12.4	11.1	10.6	10.3
Other cause	15.5	17.1	13.8	13.2	11.8	9.2	9.7	10.1	9.7	9.5	9.4
First transplant	15.0	15.5	13.3	11.3	11.2	9.5	9.4	9.8	9.7	8.7	9.8
Subsequent txs	19.7	20.6	19.7	17.3	14.5	14.1	14.2	14.5	14.7	14.0	11.5
All	15.6	16.2	14.2	12.1	11.7	10.1	10.0	10.4	10.4	9.4	10.1

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.

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	57.1	.	.	44.4	29.3	18.7	31.2	22.2	27.3	33.3	65.7	22.2	29.3	25.0	.	.	.	28.6	.	12.5	50.0	12.5
1-4	50.0	30.0	42.9	34.2	42.7	49.8	35.5	34.8	43.2	28.1	28.1	26.2	18.8	14.1	8.7	29.2	19.8	18.8	8.3	16.1	24.7	12.5
5-9	37.7	33.3	47.7	41.1	36.5	30.7	48.9	39.7	36.4	30.2	35.3	28.2	13.9	26.8	15.4	16.0	19.1	9.8	15.7	18.1	13.9	18.1
10-14	42.8	44.2	42.4	48.0	38.3	37.2	44.0	32.1	46.4	33.2	38.5	27.8	31.3	23.4	26.5	25.2	20.2	13.7	18.1	18.1	13.4	18.2
15-19	34.1	34.7	40.9	36.0	37.3	42.9	36.7	42.4	42.4	35.5	33.9	36.0	32.1	29.8	31.4	32.8	33.9	28.0	33.5	25.1	30.4	20.9
20-29	36.2	40.4	35.6	36.3	36.1	34.6	34.5	33.0	34.0	28.7	29.1	23.8	25.8	25.5	23.1	21.5	21.6	18.2	19.2	19.6	20.1	15.8
30-39	36.9	38.6	38.3	37.8	33.5	31.9	32.4	32.2	28.1	27.4	25.0	20.2	19.9	23.1	19.8	17.4	15.5	15.1	13.2	14.9	16.0	13.1
40-49	39.1	35.3	36.1	36.2	32.2	29.6	31.1	30.4	28.4	23.5	22.4	20.6	19.1	18.4	16.9	15.2	15.0	13.8	12.6	12.2	13.6	11.4
50-59	38.6	39.8	34.4	38.7	25.6	24.4	24.3	23.4	20.1	20.5	17.8	17.0	16.8	16.4	15.3	12.6	12.4	11.8	12.6	11.9	11.2	11.1
60-64	44.8	38.2	43.3	28.6	24.4	24.3	21.6	20.9	17.4	17.2	15.3	13.1	12.9	14.1	14.2	13.0	11.0	10.6	10.8	10.9	10.0	10.3
65-69	33.3	46.4	.	23.9	19.4	24.6	13.8	24.6	22.1	17.0	18.2	12.1	13.3	13.5	13.9	10.2	10.0	15.6	10.4	10.9	11.2	12.8
70-79	.	50.0	.	33.3	16.7	16.7	10.0	.	17.8	16.8	19.5	14.0	13.2	22.9	11.2	15.6	15.4	7.1	14.5	15.6	9.3	10.5
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	50.0	.	.	33.3	.	.	.	31.4	.
Male	36.9	38.2	37.8	37.8	32.8	30.4	31.2	30.4	28.3	24.8	23.2	20.0	19.8	19.8	17.5	16.4	15.3	13.8	13.3	13.0	13.2	12.1
Female	38.9	38.2	36.0	36.2	32.4	32.7	31.5	30.2	27.3	25.4	23.9	20.3	19.2	20.4	19.2	16.0	15.1	14.3	13.9	14.8	15.0	12.5
White	34.0	34.5	34.0	33.9	30.7	28.3	27.4	27.6	24.9	21.8	20.8	17.6	17.0	18.1	16.0	14.3	12.8	11.8	11.5	11.4	11.3	10.2
Black	50.5	51.8	47.7	49.3	41.3	41.4	44.9	39.5	38.9	36.6	32.8	29.2	28.2	27.8	24.4	22.3	21.9	20.3	19.9	20.5	21.1	17.6
Other race	40.0	40.9	34.3	29.4	16.3	24.0	20.5	28.0	20.3	17.4	18.7	14.9	15.5	13.2	15.3	11.6	13.8	11.2	10.1	9.8	10.4	9.7
†Hispanic																	13.9	11.2	10.4	10.6	12.0	9.7
†Non-Hispanic																	15.4	14.3	13.9	14.1	14.2	12.6
Diabetes	32.6	27.7	31.7	33.5	29.5	25.6	26.8	27.0	24.1	19.5	21.9	16.1	17.8	16.2	14.1	11.9	11.2	11.5	10.8	10.7	11.8	9.3
Hypertension	45.4	43.8	42.9	41.4	36.7	36.0	36.1	35.5	31.7	29.7	27.1	22.9	22.2	23.1	20.3	19.7	18.1	17.7	16.4	16.2	17.7	15.1
Glomerulonephritis	38.7	40.2	39.9	39.6	34.5	32.5	32.9	31.5	29.3	27.9	25.1	21.3	20.8	22.0	21.7	18.2	17.8	15.6	15.3	16.3	16.0	13.8
Other cause	36.0	38.6	34.8	35.2	30.8	31.3	30.4	28.6	27.0	23.8	20.9	20.4	18.0	19.9	17.1	16.5	15.0	12.6	13.0	12.9	11.9	12.1
First transplant	36.2	37.1	36.0	35.5	30.6	28.6	29.1	29.2	26.4	23.7	22.3	18.9	18.8	19.3	17.3	15.2	14.5	13.2	12.7	12.9	13.0	11.4
Subsequent txs	49.4	47.3	45.7	49.4	43.7	44.8	43.6	37.1	37.4	33.0	30.4	27.5	24.2	26.0	24.2	23.1	20.7	19.3	19.7	19.2	20.2	18.5
All	37.6	38.2	37.1	37.3	32.6	31.3	31.3	30.3	27.9	25.0	23.5	20.1	19.5	20.1	18.1	16.3	15.2	14.0	13.5	13.7	13.9	12.2
ADJUSTED																						
0-19	40.1	38.6	42.5	41.0	38.4	40.3	40.6	38.7	42.9	33.1	35.1	31.3	28.8	27.3	25.6	27.8	26.4	20.5	23.6	21.7	24.1	19.5
20-44	38.6	39.7	37.5	37.8	34.3	32.2	33.5	32.2	30.0	27.2	25.9	21.3	20.9	22.4	19.3	17.7	16.5	15.4	14.1	15.1	15.7	12.5
45-64	40.3	40.7	36.5	36.6	28.0	26.3	25.5	25.3	22.8	21.4	18.2	17.8	17.3	17.2	15.8	13.4	13.0	11.9	12.3	11.7	11.7	11.0
65-74	29.0	47.4	.	30.5	21.9	25.7	14.2	23.3	23.1	18.9	20.2	13.8	14.4	16.1	14.3	12.2	11.7	14.3	12.3	12.8	11.0	12.9
75+	.	.	.	.	23.1	.	.	.	.	10.6	.	8.8	37.1	6.1	17.6	24.9	9.8	7.1	8.9	17.1	7.2	
Male	35.1	36.4	35.4	35.2	30.4	28.1	29.5	28.6	27.2	24.0	22.2	19.4	19.2	19.6	16.9	16.0	15.2	13.6	13.3	13.0	13.3	12.1
Female	37.0	36.4	33.6	34.2	30.7	30.8	29.6	29.0	26.7	24.6	23.4	20.0	19.0	20.4	18.7	15.7	15.0	14.5	14.0	15.0	15.2	12.7
White	31.7	32.3	31.8	31.6	28.8	26.3	25.9	26.1	24.1	21.0	20.1	17.2	16.7	17.9	15.7	14.2	12.9	11.9	11.7	11.7	11.6	10.6
Black	46.4	47.0	42.8	44.6	36.9	37.7	41.0	36.2	35.9	33.6	30.1	26.8	26.0	26.1	22.8	21.0	20.8	19.5	19.1	19.8	20.5	17.2
Other race	43.2	41.8	35.7	30.8	16.9	24.0	21.4	28.8	20.9	17.6	19.1	14.8	15.5	13.7	15.8	11.6	14.1	11.5	10.5	10.2	10.8	10.0
Diabetes	33.8	29.1	33.3	34.8	31.0	26.4	27.8	28.4	25.1	20.7	23.2	17.2	19.2	17.4	15.1	12.7	12.0	12.4	11.7	11.7	12.9	10.2
Hypertension	38.3	37.1	35.4	34.8	30.1	31.1	30.5	30.4	27.4	26.1	24.1	20.5	19.9	21.1	18.5	17.7	16.4	16.1	14.9	15.1	16.2	13.8
Glomerulonephritis	35.7	37.4	37.4	36.7	31.9	30.0	31.2	29.9	28.3	26.6	24.0	20.4	19.8	21.4	20.5	17.5	17.3	15.1	15.0	15.6	15.3	13.3
Other cause	34.7	36.9	32.3	33.1	29.1	28.8	28.6	27.0	26.8	23.1	20.3	20.3	18.0	20.0	16.5	16.1	15.0	12.7	13.1	12.9	12.1	12.2
First transplant	34.6	35.4	33.8	33.6	29.2	27.2	28.1	28.2	25.9	23.3	21.9	18.7	18.6	19.2	16.9	15.0	14.4	13.3	12.8	13.1	13.2	11.5
Subsequent txs	45.5	44.0	41.9	44.4	39.8	41.0	39.9	33.8	34.8	30.6	28.4	25.8	22.8	24.7	22.2	19.8	18.5	18.9	18.5	19.5	17.7	
All	35.9	36.5	34.9	35.0	30.6	29.2	29.6	28.9	27.1	24.3	22.7	19.7	19.2	20.0	17.6	16.0	15.1	14.0	13.6	13.8	14.1	12.3

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 transplantation: outcomes

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	57.1	.	.	44.4	29.3	29.6	39.8	28.2	41.8	40.0	65.7	22.2	29.3	25.0	10.0	.	20.0	28.6	16.7	12.5
1-4	50.0	30.0	57.1	43.6	42.7	49.8	46.2	34.8	43.2	35.3	28.1	38.5	21.9	22.1	21.7	29.2	22.8	18.8	12.5	16.1
5-9	48.7	50.1	61.4	46.1	43.1	37.0	54.8	42.6	39.5	42.3	43.0	41.3	20.8	33.4	24.0	28.8	22.2	16.4	23.7	22.0
10-14	53.3	54.4	56.6	55.3	46.9	51.4	51.3	38.8	55.2	46.2	49.6	32.2	37.6	33.8	39.5	33.3	32.1	28.4	30.3	25.0
15-19	45.0	43.4	50.9	42.7	45.0	55.3	53.7	53.1	53.0	46.1	48.1	46.6	44.4	42.0	46.1	44.2	43.7	40.9	44.3	38.8
20-29	44.1	47.4	42.5	42.3	43.5	45.6	44.2	42.2	43.1	37.8	37.2	33.0	36.3	34.4	35.4	32.0	32.4	28.9	29.7	29.5
30-39	47.0	44.0	44.3	44.7	42.4	40.5	39.9	41.0	36.3	34.8	33.5	28.6	27.6	29.6	27.3	26.4	24.4	23.9	21.6	23.4
40-49	46.3	42.3	42.3	44.1	40.5	39.6	38.8	38.5	34.3	28.5	29.1	27.0	27.1	24.3	23.9	22.3	22.1	20.1	19.7	18.0
50-59	44.9	47.1	38.9	41.3	33.1	30.3	31.6	29.6	25.5	26.8	23.2	23.3	21.4	23.2	21.5	18.6	19.3	16.8	18.7	17.3
60-64	55.7	42.9	46.1	30.9	31.8	29.9	31.2	27.5	21.7	20.9	20.5	18.7	15.9	17.8	19.7	19.6	17.8	15.9	15.5	17.0
65-69	33.3	46.4	.	33.4	26.1	24.6	16.8	31.8	24.0	20.3	24.2	17.1	16.8	19.5	18.3	15.9	14.7	22.6	13.9	16.2
70-79	.	50.0	.	66.7	16.7	16.7	28.0	8.3	21.4	16.8	23.9	21.9	16.1	27.7	14.8	22.3	18.3	11.9	20.5	19.3
80+	.	.	.	.	.	100.0	.	.	.	.	.	.	.	50.0	.	.	33.3	.	.	.
Male	46.1	44.9	44.3	44.4	40.9	39.1	39.3	38.3	34.5	31.6	30.4	27.6	26.6	26.5	25.4	23.7	23.2	21.1	20.6	19.8
Female	46.1	45.4	43.0	42.1	40.3	43.0	40.6	38.6	35.4	32.3	31.5	27.4	27.1	27.1	26.8	24.8	22.8	21.2	21.2	21.5
White	42.2	40.6	40.6	39.8	37.5	36.7	34.9	34.4	31.2	27.3	27.1	23.6	23.1	23.8	23.0	21.0	19.6	17.7	17.4	16.8
Black	60.7	62.0	55.5	58.2	54.1	54.1	57.0	52.4	48.4	48.3	43.6	41.4	39.6	37.7	34.5	33.3	32.8	30.9	31.0	31.3
Other race	41.9	46.4	36.9	32.2	20.7	30.7	28.6	33.5	26.1	23.4	23.9	21.7	20.5	18.6	22.1	18.4	19.7	17.3	16.9	15.4
†Hispanic																	20.2	18.4	17.2	17.6
†Non-Hispanic																	23.3	21.5	21.3	20.8
Diabetes	39.4	32.9	37.3	37.5	34.4	33.7	32.8	34.7	31.4	26.3	29.1	23.6	24.7	22.5	21.6	19.0	19.0	17.7	18.1	17.5
Hypertension	57.8	53.6	50.2	49.6	48.5	47.7	47.3	45.8	40.5	38.7	35.3	32.6	32.1	31.8	29.5	29.2	28.8	27.4	25.8	25.6
Glomerulonephritis	47.3	47.8	47.3	45.9	42.5	41.1	41.6	40.3	36.6	34.8	33.4	29.8	28.9	29.4	30.6	26.8	25.2	23.3	22.9	23.7
Other cause	43.6	44.4	41.1	41.6	38.8	40.8	38.9	35.2	32.7	29.7	27.0	25.4	23.1	25.0	23.3	23.2	21.2	18.5	18.7	17.5
First transplant	44.4	43.6	42.7	41.6	38.7	37.6	37.4	36.8	33.2	30.4	29.4	26.1	26.0	25.7	24.9	23.1	22.0	20.4	19.8	19.6
Subsequent txs	59.5	56.8	53.4	57.4	51.9	55.8	53.4	47.9	45.5	41.2	39.1	36.5	31.8	34.3	33.3	30.6	30.3	26.6	28.4	26.2
All	46.1	45.1	43.9	43.6	40.7	40.6	39.8	38.4	34.9	31.9	30.8	27.5	26.8	26.7	26.0	24.1	23.0	21.2	20.8	20.5
ADJUSTED																				
0-19	51.0	48.6	54.3	47.9	45.8	51.5	53.6	46.4	51.4	44.1	46.3	40.5	38.1	37.8	38.6	37.9	35.3	31.9	34.0	31.2
20-44	47.2	46.2	43.6	44.6	42.5	42.0	41.8	41.4	38.0	34.8	33.9	29.6	29.6	29.4	27.7	26.3	25.2	24.0	22.7	22.8
45-64	47.8	47.7	42.8	41.7	36.1	34.0	33.4	31.7	28.5	26.7	24.0	24.0	22.6	23.2	22.2	20.0	20.0	17.3	18.5	17.6
65-74	28.5	46.9	.	38.0	27.9	25.4	19.4	31.1	25.3	21.9	26.0	19.6	18.0	21.4	18.4	18.6	16.0	21.3	16.7	17.7
75+	.	.	.	100.0	.	58.4	.	.	.	.	10.1	.	8.6	53.4	14.6	17.1	31.1	9.7	10.7	14.5
Male	43.8	42.7	41.6	41.4	38.0	36.3	37.4	36.2	33.3	30.7	29.2	26.9	25.8	26.2	24.5	23.2	23.0	20.9	20.6	19.9
Female	43.8	43.3	40.3	39.7	38.2	40.6	38.3	37.1	34.6	31.3	30.8	27.0	26.8	27.0	26.2	24.3	22.7	21.5	21.4	21.8
White	39.5	38.1	38.1	37.1	35.2	34.2	33.0	32.6	30.2	26.3	26.2	23.0	22.6	23.6	22.6	20.8	19.6	17.9	17.6	17.1
Black	56.1	56.4	50.0	52.8	48.7	49.6	52.3	48.4	44.9	44.6	40.2	38.2	36.6	35.5	32.4	31.5	31.2	29.6	29.7	30.2
Other race	44.5	46.8	37.9	33.2	21.3	30.4	29.5	34.1	26.7	23.5	24.2	21.5	20.3	19.1	22.8	18.3	20.0	17.7	17.5	15.9
Diabetes	40.6	34.2	38.9	38.7	35.9	34.4	33.8	36.2	32.4	27.6	30.6	25.0	26.3	24.0	22.8	20.0	20.2	18.9	19.5	18.9
Hypertension	49.4	46.0	41.7	42.2	40.4	41.8	40.6	39.6	35.4	34.4	31.6	29.5	28.9	29.1	26.8	26.4	26.2	25.1	23.6	23.9
Glomerulonephritis	44.0	44.7	44.6	42.8	39.5	38.3	39.8	38.4	35.3	33.3	32.1	28.5	27.7	28.6	29.1	25.8	24.5	22.4	22.9	
Other cause	41.8	42.4	38.2	39.2	36.8	37.7	36.9	33.4	32.4	28.8	26.2	25.3	23.1	25.1	22.4	22.7	21.1	18.8	18.8	17.6
First transplant	42.4	41.6	40.1	39.4	36.9	35.8	36.1	35.7	32.7	29.9	28.9	25.8	25.8	25.7	24.3	22.8	21.9	20.5	20.0	19.9
Subsequent txs	54.9	52.8	49.1	51.9	47.3	51.3	49.1	43.8	42.3	38.2	36.5	34.2	29.8	32.5	31.2	29.2	29.0	25.5	27.1	25.2
All	43.9	43.0	41.2	41.0	38.2	38.0	37.8	36.6	33.9	31.0	29.9	26.9	26.3	26.6	25.2	23.6	22.9	21.2	21.0	20.6

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.

“. “ Zero values in this cell.

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	.	12.5	44.4	29.3	35.0	48.4	49.7	70.9	40.0	100.0	22.2	45.0	25.0	10.0
1-4	50.0	41.7	57.1	43.6	57.1	76.6	57.0	52.6	64.9	53.3	31.4	50.8	35.3	34.4	34.8
5-9	59.7	64.8	61.4	56.9	62.8	64.2	68.6	63.3	49.1	65.4	63.1	57.9	48.8	45.2	36.7
10-14	70.0	70.7	69.2	66.7	66.1	67.8	64.6	62.9	75.4	59.7	64.7	56.9	60.7	51.0	60.7
15-19	55.4	52.9	64.0	55.4	57.6	71.6	67.1	59.9	65.2	61.1	64.3	64.9	61.0	56.4	65.4
20-29	56.6	57.1	52.9	56.0	59.2	58.2	59.7	56.9	57.3	53.8	53.5	50.9	57.4	52.9	51.7
30-39	57.7	55.7	53.7	54.5	57.0	54.9	53.9	54.4	50.4	50.3	49.7	47.7	45.7	48.1	44.7
40-49	53.5	53.0	54.6	56.8	54.8	53.7	52.2	49.2	47.6	41.7	43.8	40.9	42.2	38.9	39.7
50-59	52.8	51.8	48.7	52.4	46.0	46.1	42.8	39.9	36.5	38.9	36.0	36.8	36.3	37.4	35.8
60-64	55.7	49.3	57.8	40.4	47.8	39.9	44.1	33.8	31.4	34.1	33.1	31.9	31.0	28.7	31.7
65-69	33.3	46.4	.	33.4	26.1	41.4	25.3	39.6	37.9	25.5	36.0	30.3	28.9	32.7	31.4
70-79	.	50.0	.	66.7	16.7	16.7	28.0	17.5	31.4	16.8	23.9	33.7	25.8	37.9	26.1
80+	.	.	.	.	.	100.0	.	.	.	.	.	.	.	50.0	.
Male	56.5	55.2	54.7	55.4	55.7	54.3	52.3	50.5	47.9	45.9	45.1	43.4	43.3	42.2	41.2
Female	56.5	55.6	53.6	54.7	55.1	56.8	55.8	51.8	49.2	46.9	47.1	44.3	45.0	43.5	43.1
White	52.4	50.1	50.3	51.0	51.8	50.6	48.0	46.4	44.4	40.8	41.2	39.5	38.9	39.0	37.5
Black	73.1	76.8	69.0	71.6	70.8	72.7	73.6	68.2	64.4	66.7	62.1	59.8	62.0	56.6	55.3
Other race	50.3	52.4	48.4	42.7	35.1	38.1	42.3	42.6	35.0	33.5	37.4	34.0	35.0	33.8	34.5
†Hispanic															
†Non-Hispanic															
Diabetes	48.2	44.1	45.5	48.7	51.2	51.6	49.8	48.7	48.1	44.0	45.2	42.4	43.5	41.3	40.1
Hypertension	70.4	65.6	63.9	63.6	67.3	66.8	64.6	61.1	56.8	55.2	51.9	51.5	53.2	49.4	49.1
Glomerulonephritis	59.7	59.3	58.2	56.6	57.5	54.6	55.1	52.7	49.8	49.2	49.2	46.2	45.4	45.9	45.5
Other cause	52.0	52.8	50.4	53.0	50.9	52.9	49.9	46.0	43.6	40.9	39.8	38.4	37.3	37.3	35.8
First transplant	55.0	54.1	53.0	53.0	53.3	52.0	51.3	49.2	46.5	44.4	44.3	42.3	42.6	41.1	40.9
Subsequent txs	69.3	65.5	64.3	70.4	68.0	71.5	66.9	62.0	60.1	57.7	55.0	53.3	52.5	54.3	49.2
All	56.5	55.3	54.3	55.2	55.5	55.2	53.7	51.0	48.4	46.3	45.9	43.8	44.0	42.7	42.0
ADJUSTED															
0-19	64.6	61.8	65.7	60.3	62.5	70.8	68.2	62.3	67.4	61.1	63.5	60.3	59.2	53.4	57.7
20-44	58.4	56.7	54.1	56.5	57.7	55.9	56.2	55.2	52.4	49.9	50.0	47.0	48.0	46.9	44.4
45-64	55.1	57.1	54.1	54.4	50.4	49.3	46.8	41.5	40.2	40.4	37.4	38.4	37.9	37.9	36.8
65-74	28.2	47.8	.	40.0	27.7	44.8	26.5	39.7	39.7	27.0	35.7	32.9	30.9	35.1	32.3
75+	.	.	.	100.0	.	66.5	.	.	.	.	11.9	37.1	11.2	53.1	16.1
Male	53.6	52.4	51.3	51.9	52.0	50.9	49.8	48.0	46.2	44.5	43.2	42.1	42.0	41.4	39.7
Female	54.4	53.6	50.8	52.3	52.9	54.2	53.4	50.2	48.4	45.8	46.5	43.7	44.5	43.5	42.3
White	49.2	47.1	47.2	47.9	48.8	47.5	45.6	44.1	43.0	39.3	39.8	38.4	37.9	38.4	36.7
Black	68.0	70.7	63.0	65.8	64.9	67.4	68.3	63.6	60.3	62.2	58.0	55.5	57.7	53.5	52.1
Other race	52.8	52.9	49.3	44.0	36.7	37.8	43.6	43.0	35.5	33.4	37.4	33.1	34.0	34.1	35.0
Diabetes	49.0	45.0	46.5	49.5	52.4	51.9	50.3	49.8	48.9	45.3	46.6	44.0	45.5	43.1	41.8
Hypertension	61.5	57.8	54.2	55.3	58.0	60.6	56.7	54.3	50.5	50.0	47.2	47.2	48.5	45.7	45.0
Glomerulonephritis	56.3	56.2	55.8	53.7	54.3	51.7	53.3	50.7	48.6	47.6	47.6	44.4	43.9	44.9	43.6
Other cause	49.7	50.2	46.9	50.2	48.4	49.3	47.6	43.8	43.2	39.7	38.7	38.0	37.1	37.2	34.3
First transplant	52.6	51.7	50.0	50.4	51.0	49.7	49.6	47.8	45.8	43.7	43.5	41.7	42.2	40.9	39.8
Subsequent txs	64.8	61.4	60.2	65.3	63.3	67.0	62.8	57.8	56.7	54.4	52.2	50.5	49.9	52.1	46.8
All	54.1	52.9	51.3	52.2	52.5	52.2	51.3	48.9	47.2	45.0	44.5	42.8	43.1	42.3	40.7

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 transplantation: outcomes

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
<1	.	.	14.3	.	7.1	10.0	.	18.8	13.9	7.4	6.7	4.0
1-4	20.0	.	13.3	5.3	4.4	.	3.7	11.6	18.5	3.5	14.1	6.8
5-9	4.4	5.3	12.1	7.0	4.4	11.8	18.8	11.8	9.8	16.3	5.2	9.8
10-14	4.2	2.6	19.3	2.8	5.1	5.8	4.9	5.9	5.1	4.1	7.7	3.2
15-19	3.1	4.5	4.1	4.8	6.0	4.1	2.4	3.0	5.8	2.2	5.9	3.7
20-29	2.7	2.0	4.7	4.5	5.6	3.5	3.7	4.4	6.9	5.8	4.2	4.6
30-39	2.6	3.1	5.8	4.0	4.6	4.0	3.3	3.2	6.5	5.7	6.0	3.9
40-49	2.8	4.5	3.6	3.3	2.8	2.2	2.4	4.8	3.2	6.0	4.8	3.7
50-59	2.5	1.2	2.0	3.0	1.5	2.1	2.1	3.8	5.0	3.2	4.8	3.3
60-64	.	.	.	.	2.9	3.4	2.5	3.6	.	8.8	2.6	3.3
65-69	.	.	.	20.0	.	.	2.9	3.0	.	.	.	5.3
70-79	.	.	.	.	.	.	11.1	.	.	.	.	.
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	3.9	3.6	5.5	4.1	4.6	3.5	3.2	4.7	7.1	5.9	5.4	4.1
Female	1.5	1.9	5.1	3.8	3.7	3.4	3.5	3.9	4.4	5.1	5.1	4.2
White	2.8	2.5	4.9	4.2	4.1	3.2	3.2	4.4	5.9	5.4	5.3	3.9
Black	4.5	5.9	7.4	3.4	6.2	4.8	4.2	4.9	8.3	8.4	5.3	7.1
Other race	.	4.7	6.3	1.7	1.3	4.9	3.4	1.5	2.9	1.4	3.3	.
†Hispanic												
†Non-Hispanic												
Diabetes	1.9	4.8	4.3	5.3	4.8	3.2	2.9	5.1	6.8	4.4	5.9	4.5
Hypertension	4.0	1.9	4.7	2.1	3.1	1.8	3.1	2.7	6.5	6.2	5.1	4.4
Glomerulonephritis	3.4	1.6	5.8	4.6	5.1	3.4	3.2	4.8	6.8	6.3	4.5	3.2
Other cause	2.6	3.7	5.6	3.4	3.6	4.4	3.7	4.1	4.8	5.3	5.5	4.8
First transplant	3.0	2.9	5.2	3.9	4.0	3.1	3.4	4.1	6.0	5.4	4.7	3.8
Subsequent txs	2.0	4.9	7.5	5.6	8.0	7.3	2.6	6.8	6.4	8.5	12.3	9.0
All	2.9	2.9	5.3	4.0	4.3	3.5	3.3	4.4	6.1	5.6	5.2	4.2
ADJUSTED												
0-19	5.0	4.4	10.7	5.2	6.2	6.5	6.0	7.1	8.4	6.2	7.9	6.0
20-44	2.7	3.2	5.1	4.3	5.1	3.5	3.4	3.6	6.4	5.8	5.1	4.2
45-64	4.1	2.0	2.0	2.4	1.3	2.3	2.2	4.9	3.6	5.3	5.4	3.2
65-74	.	.	.	17.1	.	.	5.1	3.2	.	.	.	4.6
75+	.	.	.	.	.	.	.	.	.	.	.	.
Male	3.8	3.5	5.0	3.8	4.4	3.4	3.1	4.5	6.5	5.5	5.2	4.0
Female	1.4	1.9	4.6	3.6	3.5	3.3	3.4	3.7	4.1	4.8	4.8	3.8
White	2.6	2.3	4.5	3.8	3.9	3.1	3.1	4.2	5.3	5.0	5.0	3.6
Black	4.0	5.3	6.6	3.2	5.4	4.4	3.8	4.6	7.1	6.7	4.4	6.0
Other race	.	4.7	6.6	1.6	1.2	4.9	3.3	1.5	2.9	1.3	3.5	0.0
Diabetes	2.2	5.4	4.8	5.7	5.4	3.7	3.3	5.8	7.6	5.0	6.7	5.1
Hypertension	3.8	1.7	3.6	2.0	2.9	1.6	2.9	2.6	5.9	5.9	5.1	4.3
Glomerulonephritis	3.2	1.6	5.5	4.3	4.8	3.2	3.2	4.6	6.3	5.7	4.2	3.0
Other cause	2.3	3.3	4.9	3.0	3.2	4.1	3.5	3.8	4.0	4.7	5.0	4.1
First transplant	2.9	2.7	4.7	3.6	3.7	3.0	3.3	4.0	5.5	5.0	4.5	3.5
Subsequent txs	2.1	4.5	7.0	5.4	7.9	7.2	2.6	6.6	5.9	7.8	11.8	8.7
All	2.8	2.8	4.9	3.7	4.1	3.4	3.2	4.2	5.6	5.2	5.0	3.9

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.

Table F.19 (continued)

90-day probability of graft failure necessitating dialysis or retransplantation: all living donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	15.3	13.5	7.1	3.3	8.0	.	3.0	2.9	8.7	5.3	.	3.1
1-4	7.9	13.9	11.1	.	8.5	1.9	9.4	2.0	6.8	.	.	3.6
5-9	6.0	4.6	5.1	5.0	5.7	1.7	1.5	2.9	1.7	5.3	1.3	1.3
10-14	1.8	3.7	3.1	3.5	2.5	3.9	0.8	3.9	5.2	3.7	0.7	2.1
15-19	8.0	5.2	4.2	6.6	4.0	3.4	4.5	1.0	3.4	4.5	1.8	1.3
20-29	5.5	3.6	3.7	4.1	2.8	2.8	3.7	3.0	3.2	2.4	1.6	2.0
30-39	4.9	4.4	4.0	3.2	3.4	2.0	1.9	2.7	2.4	2.3	2.1	2.8
40-49	4.7	3.9	4.7	4.1	2.3	3.1	1.8	2.9	3.1	2.9	2.9	2.6
50-59	4.5	6.3	2.9	4.4	2.3	2.4	2.6	2.7	1.4	2.0	2.0	1.5
60-64	1.3	4.7	5.7	4.6	1.7	1.8	1.6	1.0	1.8	1.7	1.1	2.7
65-69	4.1	.	4.4	5.0	2.0	.	1.4	1.9	0.4	2.4	1.5	2.3
70-79	.	9.1	.	7.7	4.0	3.1	.	.	1.0	0.8	1.7	3.1
80+	.	100.0	.	.	.	.	.	.	25.0	.	.	33.3
Male	4.8	4.3	3.8	4.0	2.1	2.2	2.2	1.8	2.2	2.0	1.7	2.0
Female	5.2	5.3	4.4	4.3	4.0	2.8	2.6	3.7	2.9	3.1	2.5	2.7
White	4.9	4.5	4.2	4.1	2.6	2.6	2.4	2.6	2.3	2.4	2.0	2.2
Black	6.0	5.5	4.4	4.3	4.1	2.1	2.5	2.8	3.1	3.4	2.0	2.8
Other race	2.1	6.6	1.3	3.0	2.7	2.2	1.9	2.1	2.8	0.8	2.2	1.8
†Hispanic					1.4	2.6	2.9	2.3	2.1	1.9	1.6	2.1
†Non-Hispanic					3.1	2.5	2.3	2.6	2.5	2.5	2.1	2.3
Diabetes	7.4	4.1	4.0	3.8	2.8	1.9	1.8	2.6	2.0	1.8	1.8	1.8
Hypertension	4.0	5.0	5.7	4.3	1.7	1.8	2.5	3.0	1.6	2.4	2.2	2.5
Glomerulonephritis	4.4	4.8	4.1	5.0	3.2	3.0	2.7	2.5	2.9	2.6	1.9	2.5
Other cause	4.5	4.9	3.3	3.5	3.1	2.6	2.4	2.5	2.7	2.7	2.1	2.3
First transplant	4.9	4.5	3.8	4.1	2.7	2.3	2.1	2.5	2.3	2.4	1.8	2.3
Subsequent txs	6.7	7.1	7.0	4.5	4.7	4.2	5.6	3.6	4.8	2.8	3.8	2.3
All	5.0	4.7	4.1	4.1	2.9	2.5	2.4	2.6	2.5	2.4	2.0	2.3
ADJUSTED												
0-19	7.2	7.4	5.3	5.6	5.3	3.3	3.8	2.7	4.8	4.9	1.4	2.2
20-44	4.8	4.2	3.8	3.7	2.9	2.7	2.5	2.8	2.7	2.3	2.3	2.4
45-64	4.9	4.9	4.1	3.9	2.2	2.3	2.1	2.6	2.1	2.3	2.0	2.1
65-74	4.2	2.2	3.6	4.6	2.6	0.8	1.2	1.5	0.6	1.7	1.4	2.3
75+	.	75.6	.	21.9	.	.	.	.	5.6	4.0	2.9	9.2
Male	4.7	4.2	3.7	3.9	2.0	2.3	2.3	1.9	2.3	2.1	1.8	2.2
Female	5.0	5.1	4.2	4.1	4.1	2.9	2.7	3.9	3.1	3.4	2.7	2.9
White	4.7	4.4	4.0	4.1	2.7	2.6	2.5	2.7	2.5	2.5	2.2	2.4
Black	5.5	5.1	4.1	3.9	4.0	2.0	2.4	2.8	3.1	3.5	2.0	2.8
Other race	2.1	6.3	1.3	2.4	2.7	2.2	2.0	2.2	3.1	0.9	2.3	1.9
Diabetes	8.4	4.6	4.5	4.3	3.3	2.4	2.2	3.2	2.5	2.3	2.3	2.2
Hypertension	3.9	5.0	5.6	4.0	1.7	1.9	2.5	3.1	1.7	2.6	2.3	2.7
Glomerulonephritis	4.2	4.5	3.9	4.8	3.2	3.0	2.8	2.6	3.0	2.6	2.1	2.6
Other cause	4.1	4.5	3.0	3.1	2.8	2.5	2.3	2.5	2.8	2.7	2.1	2.4
First transplant	4.7	4.4	3.6	3.9	2.7	2.4	2.2	2.6	2.4	2.6	2.0	2.5
Subsequent txs	6.5	7.2	7.1	4.4	4.7	4.3	5.8	3.8	4.9	2.9	4.1	2.4
All	4.8	4.6	3.9	4.0	2.9	2.6	2.5	2.7	2.7	2.6	2.2	2.5

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 transplantation: outcomes

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
<1	.	.	14.3	.	14.3	30.0	8.3	18.8	13.9	7.4	6.7	4.0
1-4	40.0	.	33.3	21.7	4.4	14.3	7.6	11.6	22.2	3.5	14.1	6.8
5-9	4.4	10.5	25.0	14.3	6.7	15.7	20.8	17.7	14.8	16.3	7.1	11.1
10-14	6.3	5.3	26.3	8.5	12.2	14.2	7.5	10.6	10.3	5.1	13.3	5.3
15-19	7.9	9.9	8.3	11.2	12.9	8.2	10.3	7.8	10.5	4.5	11.3	6.3
20-29	9.3	8.2	8.2	9.2	8.5	7.4	8.6	8.8	9.8	8.6	5.8	5.9
30-39	4.8	11.2	9.6	8.8	8.6	9.1	5.9	6.8	9.9	7.9	7.7	5.4
40-49	11.3	10.5	8.3	9.0	6.4	4.1	4.4	7.4	5.0	6.6	7.3	4.8
50-59	12.7	11.2	7.0	4.9	6.1	2.9	2.9	5.9	5.7	6.5	7.8	4.9
60-64	.	.	.	.	2.9	5.1	2.5	7.2	3.9	8.8	2.6	5.1
65-69	.	.	.	20.0	.	8.3	5.9	6.1	10.0	.	.	5.3
70-79	.	.	.	.	.	.	11.1	.	.	.	.	.
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	8.6	10.8	10.3	9.5	8.0	7.3	5.8	8.3	10.6	7.7	7.5	5.3
Female	7.9	7.9	8.9	8.2	8.6	7.1	7.0	6.9	6.7	7.3	7.5	5.9
White	7.8	8.7	9.1	8.4	7.7	6.4	6.1	7.8	8.8	6.8	7.4	5.2
Black	12.5	18.1	13.7	12.8	13.6	11.9	7.6	9.2	12.2	13.7	9.4	9.4
Other race	9.8	7.1	8.5	6.7	2.6	7.4	5.1	2.3	4.4	2.8	4.5	0.0
†Hispanic												
†Non-Hispanic												
Diabetes	5.9	12.1	7.3	11.5	9.8	7.3	7.6	8.2	10.3	6.7	8.5	5.6
Hypertension	10.8	7.7	9.4	7.6	8.6	5.7	4.6	6.4	9.2	9.1	7.2	6.6
Glomerulonephritis	8.3	10.2	10.5	9.8	8.9	7.3	6.4	7.4	11.7	8.6	7.0	4.7
Other cause	8.5	8.9	10.3	7.3	6.6	7.6	6.0	8.3	5.8	6.4	7.4	6.0
First transplant	8.6	9.7	9.8	9.1	7.9	6.8	6.4	7.6	9.1	7.3	6.9	5.2
Subsequent txs	4.1	9.8	8.8	6.6	11.4	12.2	5.2	9.4	9.3	10.2	16.0	10.7
All	8.3	9.7	9.8	8.9	8.2	7.2	6.3	7.7	9.1	7.5	7.5	5.6
ADJUSTED												
0-19	9.2	9.5	18.8	13.1	12.7	13.8	12.1	12.1	13.8	7.6	12.5	8.1
20-44	8.6	10.6	9.0	9.6	8.5	7.5	6.4	7.5	9.3	8.3	7.0	5.5
45-64	11.4	10.8	6.9	4.8	5.6	4.0	3.8	7.0	5.3	7.0	7.6	4.8
65-74	.	.	.	17.1	.	7.7	7.9	6.3	12.1	.	0.0	4.6
75+	.	.	.	.	.	.	.	.	.	.	.	.
Male	8.3	10.4	9.6	8.8	7.6	7.1	5.6	8.0	9.8	7.2	7.2	5.1
Female	7.5	7.5	8.4	7.7	8.1	6.9	6.9	6.8	6.2	6.9	7.1	5.6
White	7.3	8.1	8.6	7.8	7.2	6.2	5.9	7.6	8.1	6.4	7.0	4.9
Black	11.2	16.0	12.1	11.8	11.9	11.0	7.0	8.5	10.5	11.7	7.9	8.4
Other race	11.4	7.2	8.9	6.5	2.4	7.5	5.0	2.3	4.3	2.6	4.6	0.0
Diabetes	6.7	13.3	8.0	12.3	10.8	8.4	8.5	9.3	11.4	7.7	9.5	6.3
Hypertension	10.1	6.8	8.3	7.1	8.0	5.3	4.2	6.0	8.3	8.6	7.2	6.4
Glomerulonephritis	7.8	9.8	10.0	9.4	8.4	7.0	6.3	7.1	10.8	7.9	6.6	4.4
Other cause	7.6	8.1	9.4	6.5	5.9	7.1	5.7	7.9	4.9	5.6	6.7	5.2
First transplant	8.2	9.2	9.2	8.6	7.5	6.6	6.3	7.4	8.4	6.9	6.6	4.9
Subsequent txs	4.3	9.0	8.2	6.3	11.3	11.9	5.1	9.1	8.6	9.4	15.3	10.3
All	8.0	9.3	9.2	8.4	7.8	7.0	6.1	7.6	8.4	7.1	7.2	5.3

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.

Table F.2o (continued)

One-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<1	15.3	13.5	7.1	3.3	8.0	.	3.0	2.9	8.7	5.3	.	6.5
1-4	7.9	15.9	11.1	0.0	12.7	5.6	9.4	2.0	6.8	.	4.4	3.6
5-9	7.5	9.3	6.8	6.3	8.5	1.7	1.5	5.7	1.7	5.3	2.6	1.3
10-14	4.6	5.5	3.1	7.0	2.5	5.9	2.4	4.7	7.0	4.5	1.5	2.9
15-19	12.5	9.3	6.4	7.2	5.5	6.8	7.4	3.3	5.7	5.0	3.5	3.4
20-29	7.2	5.8	6.1	6.3	4.9	3.5	6.2	5.4	5.9	4.5	3.3	3.4
30-39	6.6	5.7	4.9	4.6	4.8	2.9	3.8	4.0	3.1	3.3	3.2	3.9
40-49	5.6	5.0	6.4	5.2	3.6	4.1	2.5	3.5	4.0	3.6	4.1	3.1
50-59	7.1	8.8	4.4	6.0	3.6	3.1	3.4	3.5	2.9	3.3	2.8	2.1
60-64	1.3	7.6	9.7	6.7	1.7	4.0	2.0	1.3	2.4	3.0	2.6	3.1
65-69	6.3	2.8	4.4	6.3	5.2	.	2.8	2.6	1.3	3.6	2.1	2.9
70-79	.	9.1	.	7.7	4.0	3.1	2.4	.	6.0	0.8	2.3	3.8
80+	.	100.0	.	.	.	.	.	.	25.0	.	.	33.3
Male	6.3	6.6	5.4	5.4	3.4	3.3	3.2	2.7	3.4	3.0	2.8	2.7
Female	7.4	6.8	6.0	6.0	5.7	4.0	4.5	5.2	4.4	4.3	3.6	3.6
White	6.5	6.4	5.4	5.3	3.9	3.6	3.7	3.6	3.6	3.3	3.0	3.0
Black	9.1	7.4	8.0	7.2	6.8	3.3	4.4	4.9	4.9	5.1	3.9	3.9
Other race	4.3	9.5	2.0	4.8	4.0	3.3	2.9	2.1	4.1	2.2	2.8	2.6
†Hispanic					3.3	3.0	4.0	3.5	3.1	2.9	2.3	3.0
†Non-Hispanic					4.5	3.6	3.7	3.8	3.9	3.6	3.3	3.1
Diabetes	8.4	5.6	5.3	4.8	3.6	2.8	2.6	3.1	3.0	2.7	3.2	2.2
Hypertension	6.3	6.3	7.9	6.0	3.3	2.9	4.4	4.7	3.3	3.6	3.4	3.2
Glomerulonephritis	6.4	7.7	6.2	6.6	5.0	4.3	4.4	3.8	4.4	4.4	3.1	3.4
Other cause	6.3	6.5	4.5	5.1	4.6	3.6	3.7	3.7	3.9	3.4	3.1	3.3
First transplant	6.6	6.6	5.2	5.6	4.2	3.4	3.4	3.5	3.5	3.4	2.9	3.1
Subsequent txs	8.4	7.6	11.2	5.5	5.8	5.5	7.2	6.5	7.2	5.0	5.9	3.3
All	6.8	6.7	5.7	5.6	4.4	3.6	3.8	3.7	3.8	3.5	3.2	3.1
ADJUSTED												
0-19	10.4	10.9	6.8	7.1	7.1	6.2	5.7	4.7	6.8	5.4	3.2	3.8
20-44	6.4	5.7	5.4	5.3	4.5	3.4	4.2	4.2	4.1	3.5	3.6	3.4
45-64	6.5	7.1	6.0	5.6	3.2	3.6	3.0	3.3	3.2	3.5	3.0	2.6
65-74	6.4	4.6	3.6	5.6	5.4	0.8	2.4	2.0	2.9	2.6	1.9	3.0
75+	.	75.6	.	21.9	.	.	13.2	.	5.6	4.0	6.0	9.2
Male	6.1	6.4	5.2	5.3	3.3	3.3	3.4	2.8	3.6	3.2	3.1	3.0
Female	7.2	6.5	5.9	5.8	5.8	4.1	4.6	5.5	4.8	4.7	4.0	3.9
White	6.3	6.2	5.3	5.3	3.9	3.7	3.8	3.8	3.9	3.6	3.3	3.2
Black	8.3	6.8	7.4	6.7	6.6	3.2	4.3	4.9	4.9	5.2	4.0	3.9
Other race	4.3	9.1	2.0	4.8	4.1	3.3	3.0	2.2	4.5	2.4	3.0	2.8
Diabetes	9.5	6.4	6.0	5.5	4.3	3.3	3.1	3.8	3.8	3.4	3.9	2.8
Hypertension	6.2	6.4	7.9	6.0	3.3	2.9	4.6	4.8	3.5	3.9	3.7	3.4
Glomerulonephritis	6.2	7.2	5.9	6.3	5.0	4.3	4.5	3.9	4.6	4.5	3.3	3.5
Other cause	5.7	5.9	4.0	4.7	4.3	3.5	3.6	3.6	4.1	3.5	3.2	3.4
First transplant	6.5	6.3	5.0	5.5	4.2	3.5	3.6	3.7	3.8	3.7	3.1	3.4
Subsequent txs	8.1	7.7	11.4	5.5	5.8	5.6	7.5	6.9	7.6	5.3	6.3	3.5
All	6.6	6.4	5.5	5.5	4.4	3.6	3.9	3.9	4.1	3.8	3.4	3.4

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 transplantation: outcomes

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
<1	.	.	31.4	.	21.4	30.0	8.3	18.8	13.9	11.4	6.7	4.0
1-4	40.0	11.1	46.7	27.3	4.4	19.1	11.6	18.6	22.2	3.5	14.1	6.8
5-9	13.5	10.5	34.8	29.9	13.5	15.7	25.1	25.5	22.5	19.9	9.0	12.3
10-14	16.9	16.2	37.1	12.8	19.5	17.8	19.1	17.7	18.8	8.2	13.3	8.5
15-19	19.0	17.3	11.6	17.0	18.2	15.7	17.1	12.0	16.5	12.7	17.4	10.7
20-29	12.4	11.7	15.0	14.3	11.9	10.4	12.2	13.5	14.4	11.4	7.2	9.4
30-39	7.6	15.1	13.4	12.3	11.3	11.4	8.4	8.6	12.8	9.3	10.3	7.0
40-49	14.3	12.6	10.9	12.9	9.0	6.7	5.8	9.3	5.8	8.3	8.7	7.5
50-59	12.7	15.1	10.7	6.2	7.7	4.0	4.0	8.3	7.0	7.7	9.9	5.8
60-64	.	.	.	.	9.0	5.1	5.2	9.7	3.9	8.8	2.6	7.0
65-69	.	.	.	20.0	.	8.3	5.9	9.2	10.0	.	.	5.3
70-79	.	.	.	.	.	.	11.1	.	.	.	.	.
80+	.	.	.	.	.	.	.	.	.	.	.	.
Male	13.4	15.3	14.9	13.8	11.9	9.7	8.5	11.1	14.6	9.5	9.0	7.6
Female	10.9	11.4	14.5	12.1	11.2	10.2	10.0	10.2	9.4	10.5	10.2	8.6
White	12.1	13.0	13.9	12.4	10.7	8.8	8.7	10.6	12.0	9.0	8.8	7.3
Black	14.8	19.9	21.0	19.3	19.3	16.8	12.7	13.7	18.1	17.8	15.8	14.1
Other race	9.8	12.1	8.5	6.7	6.6	8.7	5.1	5.5	6.0	4.2	7.8	2.3
†Hispanic												
†Non-Hispanic												
Diabetes	10.1	16.6	12.6	16.2	13.7	9.0	10.1	10.4	12.5	8.9	10.5	7.6
Hypertension	14.8	9.6	15.6	14.7	11.9	9.7	8.1	8.5	14.8	10.5	10.9	9.6
Glomerulonephritis	12.5	15.7	15.8	14.3	13.2	10.6	9.2	9.7	15.9	10.9	8.7	8.0
Other cause	12.4	12.1	14.4	10.0	8.8	9.9	8.8	12.7	8.6	9.4	9.4	7.6
First transplant	12.5	13.9	14.8	13.2	11.4	9.6	9.3	10.7	12.6	9.9	8.8	7.5
Subsequent txs	10.5	9.8	14.0	12.5	14.2	13.2	7.1	12.1	12.2	10.2	19.1	14.2
All	12.4	13.8	14.8	13.1	11.6	9.9	9.1	10.8	12.5	9.9	9.5	8.0
ADJUSTED												
0-19	20.8	17.7	26.3	20.3	19.2	19.2	19.8	18.2	20.7	13.2	16.1	11.3
20-44	11.9	14.4	14.1	13.8	11.8	10.0	9.1	10.4	12.7	10.5	8.9	8.2
45-64	12.5	13.6	9.8	7.2	7.3	5.8	5.3	9.1	6.4	7.5	9.4	6.3
65-74	.	.	.	17.7	.	8.1	7.9	9.8	12.1	.	.	4.7
75+	.	.	.	.	.	.	.	.	.	.	.	.
Male	12.9	14.6	14.0	12.9	11.2	9.4	8.3	10.8	13.5	8.9	8.7	7.2
Female	10.4	10.9	13.6	11.5	10.5	9.7	9.8	10.0	8.7	9.9	9.7	8.0
White	11.3	12.2	13.1	11.5	10.0	8.4	8.5	10.3	11.0	8.4	8.3	6.8
Black	13.3	17.5	18.6	17.8	16.8	15.5	11.6	12.7	15.6	15.1	13.2	12.5
Other race	11.4	12.2	8.9	6.5	6.2	7.5	5.0	5.4	5.8	3.9	8.1	2.1
Diabetes	11.3	18.3	13.8	17.2	15.0	10.2	11.3	11.7	13.8	10.1	11.7	8.5
Hypertension	13.9	8.5	13.7	13.7	11.0	8.9	7.4	8.0	13.4	10.0	10.9	9.3
Glomerulonephritis	11.8	15.0	15.0	13.7	12.5	10.2	9.0	9.2	14.7	10.0	8.1	7.5
Other cause	11.0	10.9	13.1	8.9	7.9	9.1	8.4	12.1	7.3	8.2	8.4	6.6
First transplant	11.9	13.2	13.9	12.4	10.7	9.3	9.2	10.4	11.7	9.3	8.4	7.1
Subsequent txs	11.0	9.0	13.1	12.0	14.1	13.0	7.0	11.7	11.4	9.4	18.4	13.7
All	11.9	13.2	13.9	12.4	11.0	9.6	8.9	10.5	11.6	9.3	9.1	7.6

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.

“. “ Zero values in this cell.

Table F.21 (continued)

Two-year probability of graft failure necessitating dialysis or retransplantation: all living donor transplants

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

UNADJUSTED	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<1	21.3	13.5	7.1	3.3	12.2	3.6	3.0	2.9	8.7	5.3	2.6
1-4	13.2	15.9	11.1	.	15.0	7.5	9.4	2.0	6.8	1.7	4.4
5-9	10.5	12.5	8.5	10.2	11.4	1.7	3.0	5.7	5.0	8.0	3.9
10-14	11.2	11.1	5.1	9.7	7.7	9.8	3.9	7.1	11.3	6.7	4.4
15-19	18.5	12.2	9.0	12.4	10.6	10.2	10.8	9.6	12.0	7.2	9.2
20-29	10.5	9.0	9.2	9.6	8.4	7.4	10.4	10.3	9.7	7.5	7.9
30-39	8.8	8.9	7.1	6.7	7.2	4.7	5.8	5.9	5.2	6.2	5.3
40-49	6.8	6.7	8.1	6.6	4.7	6.0	3.7	4.6	5.4	4.5	5.6
50-59	10.8	11.0	5.7	6.2	4.8	4.2	4.9	4.7	4.0	4.2	4.0
60-64	2.6	7.6	9.7	8.1	2.8	5.0	2.9	2.8	2.9	4.6	3.9
65-69	6.3	2.8	4.4	6.3	7.3	3.0	4.3	3.2	1.3	4.4	4.0
70-79	.	9.1	.	7.7	4.0	3.1	7.7	1.9	8.1	1.7	3.0
80+	.	100.0	.	.	.	.	.	.	25.0	.	.
Male	9.0	8.7	7.2	7.1	5.5	5.2	5.3	4.5	5.2	4.5	4.8
Female	10.4	10.0	8.4	8.2	8.2	6.6	6.5	7.8	6.6	6.3	5.8
White	9.0	8.7	7.1	6.9	5.7	5.5	5.6	5.3	5.3	4.7	4.6
Black	14.1	11.4	11.7	11.2	11.6	7.5	7.5	9.1	8.2	8.9	8.7
Other race	6.5	12.4	3.3	6.1	5.3	4.3	4.4	3.7	6.4	3.7	4.0
†Hispanic					5.2	5.7	6.0	5.1	5.2	4.4	4.1
†Non-Hispanic					6.8	5.7	5.8	6.0	5.8	5.4	5.4
Diabetes	9.9	7.4	7.1	5.6	5.3	4.1	3.8	4.8	4.8	3.8	4.6
Hypertension	11.0	8.0	9.6	7.3	6.5	6.2	7.2	8.5	5.6	5.8	5.8
Glomerulonephritis	9.7	11.6	8.8	9.8	7.7	6.6	7.1	5.7	7.1	7.0	5.5
Other cause	8.7	8.7	6.2	6.8	6.6	5.7	5.3	5.6	5.4	4.6	5.1
First transplant	9.4	9.2	7.2	7.5	6.5	5.5	5.3	5.5	5.3	5.1	4.9
Subsequent txs	12.3	9.6	12.9	8.4	7.8	8.2	10.7	9.7	10.2	7.2	8.0
All	9.6	9.2	7.7	7.6	6.6	5.7	5.8	5.8	5.8	5.3	5.2
ADJUSTED											
0-19	16.9	14.3	9.2	11.2	12.2	9.6	8.1	8.7	12.1	8.0	7.6
20-44	8.7	8.7	7.7	7.6	7.0	5.8	6.6	6.9	6.4	6.0	6.2
45-64	9.2	8.6	7.2	6.2	4.4	5.2	4.5	4.6	4.6	4.4	4.3
65-74	6.5	4.7	3.6	5.6	7.3	3.3	4.9	2.5	3.7	3.6	3.4
75+	.	69.9	.	28.8	.	.	10.0	8.6	4.8	3.6	4.1
Male	8.7	8.5	6.8	7.0	5.4	5.3	5.5	4.7	5.6	4.9	5.2
Female	10.1	9.5	8.1	8.0	8.3	6.7	6.7	8.1	7.1	6.8	6.3
White	8.7	8.4	6.9	6.8	5.7	5.6	5.8	5.6	5.7	5.1	5.0
Black	13.0	10.5	10.8	10.4	11.1	7.2	7.2	9.1	8.2	9.1	8.8
Other race	6.5	12.0	3.3	6.0	5.4	4.4	4.5	3.9	7.0	3.9	4.3
Diabetes	11.1	8.4	8.0	6.5	6.3	5.0	4.6	5.8	5.9	4.8	5.7
Hypertension	10.9	8.0	9.5	7.2	6.6	6.4	7.4	8.7	5.9	6.2	6.3
Glomerulonephritis	9.4	10.9	8.3	9.4	7.6	6.6	7.3	5.9	7.4	7.2	5.8
Other cause	7.9	7.9	5.6	6.3	6.0	5.5	5.2	5.5	5.6	4.7	5.2
First transplant	9.1	8.8	6.9	7.4	6.5	5.7	5.6	5.8	5.8	5.5	5.4
Subsequent txs	12.0	9.7	13.1	8.4	7.8	8.4	11.1	10.3	10.8	7.6	8.6
All	9.3	8.9	7.4	7.4	6.6	5.9	6.0	6.1	6.2	5.7	5.7

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 transplantation: outcomes

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	.	25.0	31.4	.	21.4	30.0	8.3	25.5	13.9	11.4	6.7	8.2	27.4	13.5	7.1	3.3	12.2	3.6	3.0	5.9	8.7	8.1	
1-4	40.0	11.1	46.7	33.9	4.4	19.1	15.6	23.3	26.1	3.5	22.3	6.8	13.2	15.9	14.8	3.0	17.2	7.5	9.4	2.0	6.8	3.5	
5-9	18.0	10.5	44.6	42.3	20.4	19.7	27.3	29.4	27.7	23.6	10.8	13.5	13.4	14.1	8.5	10.2	12.8	1.7	6.0	5.7	5.0	9.4	
10-14	21.4	32.4	39.0	18.7	23.7	31.1	24.2	21.3	23.1	10.2	20.3	15.0	16.0	16.8	7.1	14.1	11.9	11.7	7.1	14.2	13.0	10.6	
15-19	22.2	21.9	15.0	20.0	24.2	20.6	23.8	18.7	20.5	17.2	25.0	15.8	23.1	21.0	15.0	16.5	14.2	14.2	17.1	17.8	16.3	12.2	
20-29	15.2	15.5	18.8	18.4	15.2	15.2	15.9	17.1	17.3	15.7	11.1	12.4	13.5	13.4	12.0	13.6	13.2	10.5	14.7	13.8	13.7	12.1	
30-39	10.8	18.7	16.7	15.7	14.2	15.4	11.0	10.5	15.3	11.8	11.6	9.7	10.5	11.2	9.9	8.3	10.3	7.3	8.6	7.6	7.0	8.7	
40-49	17.5	18.4	14.5	14.9	14.8	8.1	7.3	11.0	9.5	9.2	9.9	9.1	9.2	8.3	9.9	8.5	7.4	8.1	5.4	6.4	7.7	6.3	
50-59	15.7	17.8	13.0	8.2	9.8	6.3	4.6	10.2	9.8	10.5	10.4	7.9	11.1	12.4	7.2	9.6	6.4	6.0	6.3	5.9	5.7	5.5	
60-64	.	.	.	.	12.2	5.1	5.2	10.9	8.0	13.8	2.6	9.0	2.6	8.7	13.0	8.9	2.8	6.4	3.7	3.9	4.6	5.7
65-69	.	.	.	20.0	.	8.3	5.9	9.2	10.0	.	5.6	5.3	8.7	2.8	4.4	8.0	7.3	3.0	5.8	4.6	2.8	4.8	
70-79	11.1	9.1	.	7.7	4.0	6.6	7.7	1.9	9.2	1.7
80+	100.0	25.0	.
Male	16.5	19.5	18.5	17.4	15.5	13.5	11.4	13.9	17.5	11.7	11.8	9.9	11.4	11.1	10.0	9.5	8.2	7.3	7.5	6.5	7.3	6.7	
Female	14.0	16.3	17.7	15.3	15.0	13.8	12.1	12.7	12.8	14.4	12.7	11.8	12.4	13.5	10.5	10.8	11.1	8.9	9.3	10.3	8.8	8.6	
White	14.8	17.1	17.4	16.0	14.1	12.1	10.9	13.3	14.5	11.6	11.3	9.7	10.7	11.0	9.3	8.9	8.1	7.5	7.4	7.2	7.4	6.6	
Black	21.8	27.2	23.6	22.1	26.0	23.2	17.1	16.2	25.9	22.9	19.5	18.5	19.5	17.4	15.7	16.4	16.4	11.3	13.4	13.4	11.0	13.2	
Other race	9.8	17.3	13.6	8.4	6.6	11.3	8.6	7.1	7.5	5.6	10.1	5.7	10.9	14.4	4.7	7.9	6.7	6.0	6.4	5.8	8.3	4.8	
†Hispanic																	9.0	7.6	8.2	7.2	7.5	6.6	
†Non-Hispanic																	9.5	8.0	8.2	8.2	8.0	7.6	
Diabetes	13.4	19.9	16.4	19.0	16.3	10.0	12.3	13.1	14.7	10.5	12.2	9.8	11.4	10.0	8.7	7.1	7.4	5.7	5.6	6.1	7.2	5.4	
Hypertension	19.1	15.6	19.9	16.9	16.1	15.5	11.0	10.7	20.5	15.0	14.2	13.0	14.6	10.2	13.1	11.3	9.8	8.5	11.7	11.3	8.1	7.4	
Glomerulonephritis	15.7	19.6	19.3	18.7	17.4	15.4	12.2	12.8	19.5	14.2	11.2	11.0	12.1	15.0	11.8	13.1	10.8	9.3	10.0	8.9	10.0	10.1	
Other cause	15.2	17.1	17.3	13.1	12.4	13.3	11.0	15.1	11.1	12.1	12.6	10.1	10.8	11.6	8.4	8.5	9.4	7.8	7.0	7.4	6.7	6.8	
First transplant	15.8	18.2	18.1	16.6	15.3	13.4	12.0	13.3	15.7	12.8	11.6	10.0	11.8	12.1	9.8	10.1	9.1	7.6	7.8	7.6	7.3	7.1	
Subsequent txs	10.5	20.1	19.2	16.5	15.7	16.0	8.6	14.8	15.1	12.9	19.8	19.4	12.9	12.1	15.1	10.2	13.5	12.3	12.6	13.1	14.3	11.2	
All	15.5	18.2	18.2	16.6	15.3	13.6	11.6	13.4	15.7	12.8	12.2	10.7	11.9	12.1	10.2	10.1	9.4	8.0	8.2	8.1	7.9	7.5	
ADJUSTED																							
0-19	25.0	25.2	30.1	25.7	24.7	26.4	25.5	24.1	25.2	16.6	22.9	15.9	21.4	20.1	13.4	14.8	15.8	12.2	12.7	15.3	15.0	12.5	
20-44	15.2	18.7	17.7	17.2	15.3	14.0	11.8	12.8	15.7	13.6	11.3	10.8	11.4	11.6	10.1	10.2	10.5	8.4	9.7	9.1	8.9	9.0	
45-64	15.0	17.3	12.9	9.8	11.1	7.5	6.1	11.0	9.3	9.9	10.2	8.2	9.5	10.2	9.4	8.3	6.0	7.0	5.7	6.0	6.6	5.9	
65-74	.	.	.	16.8	.	7.7	8.0	9.5	12.0	.	7.0	4.7	8.8	4.5	3.6	6.6	7.1	4.0	6.0	3.5	5.0	3.8	
75+	.	.	.	.	.	.	.	.	.	.	.	.	.	66.6	.	32.1	.	.	12.1	10.8	5.1	2.3
Male	15.9	18.6	17.3	16.3	14.7	13.1	11.0	13.4	16.3	10.9	11.4	9.4	11.1	10.8	9.5	9.3	8.1	7.5	7.8	6.8	7.9	7.3	
Female	13.3	15.5	16.6	14.5	14.1	13.1	11.9	12.4	11.9	13.5	12.1	11.0	12.1	12.9	10.2	10.5	11.3	9.1	9.6	10.8	9.5	9.3	
White	13.8	16.0	16.3	14.9	13.2	11.6	10.6	12.9	13.3	10.8	10.7	9.1	10.3	10.7	9.0	8.7	8.2	7.7	7.7	7.5	8.0	7.1	
Black	19.6	24.1	20.9	20.4	22.7	21.4	15.5	14.9	22.5	19.4	16.3	16.4	18.0	16.0	14.6	15.2	15.7	10.8	12.9	13.5	11.0	13.5	
Other race	11.4	17.2	13.9	8.2	6.1	10.1	8.5	6.9	7.3	5.2	10.5	5.2	10.8	13.8	4.6	7.8	6.8	6.0	6.5	6.0	9.1	5.1	
Diabetes	15.0	21.7	17.8	20.2	17.9	11.3	13.7	14.6	16.3	11.9	13.5	11.0	12.8	11.2	9.7	8.1	8.7	6.8	6.8	7.4	8.9	6.8	
Hypertension	17.9	13.9	17.6	15.8	15.0	14.4	10.2	10.0	18.7	14.3	14.1	12.6	14.4	10.2	13.0	11.2	9.9	8.7	12.0	11.6	8.6	7.9	
Glomerulonephritis	14.7	18.7	18.3	17.9	16.4	14.7	12.0	12.2	18.0	13.0	10.5	10.3	11.8	14.0	11.2	12.6	10.7	9.3	10.2	9.3	10.5	10.5	
Other cause	13.5	15.4	15.7	11.7	11.2	12.4	10.5	14.3	9.5	10.5	11.3	8.8	9.8	10.4	7.5	7.8	8.6	7.5	6.8	7.2	7.0	6.9	
First transplant	15.0	17.2	17.0	15.6	14.4	13.0	11.8	13.0	14.6	12.0	11.1	9.5	11.5	11.6	9.4	9.8	9.1	7.8	8.2	8.0	8.0	7.8	
Subsequent txs	11.0	18.9	18.0	15.8	15.4	15.7	8.5	14.3	14.2	11.9	19.1	18.6	12.5	12.2	15.2	10.2	13.5	12.6	13.1	13.9	15.1	11.9	
All	14.9	17.4	17.1	15.7	14.5	13.2	11.4	13.1	14.6	12.0	11.7	10.1	11.5	11.7	9.8	9.8	9.4	8.2	8.6	8.5	8.6	8.1	

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.

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	.	25.0	31.4	25.0	35.7	30.0	8.3	32.3	19.7	11.4	6.7	8.2	27.4	13.5	14.9	10.4	16.4	7.3	3.0	8.9	
1-4	40.0	22.2	53.3	40.5	18.0	23.8	23.6	25.8	30.2	3.5	22.3	11.6	18.6	15.9	14.8	9.1	17.2	7.5	12.5	4.1	
5-9	27.1	21.7	47.9	54.6	27.2	27.7	31.6	39.2	33.2	29.0	14.6	19.7	22.4	15.7	10.3	15.4	14.3	8.5	7.5	11.5	
10-14	34.9	40.5	44.5	31.9	36.4	40.8	34.6	29.7	29.5	19.6	25.9	22.5	27.4	26.1	12.3	20.3	19.7	20.6	9.4	20.6	
15-19	35.2	26.5	29.1	28.8	32.9	30.6	33.1	30.3	27.2	30.0	36.0	22.2	30.1	37.5	27.4	25.9	24.5	27.3	29.2	24.2	
20-29	23.7	22.0	25.9	25.4	24.2	21.9	22.3	23.3	23.6	23.1	18.1	20.2	21.5	20.3	21.4	21.1	21.6	18.4	22.6	21.2	
30-39	15.5	23.2	22.3	20.1	18.5	20.7	14.7	14.1	20.5	15.7	17.8	15.2	15.9	16.0	16.9	13.3	15.3	11.5	13.1	12.6	
40-49	24.7	20.6	16.9	17.9	19.8	10.4	10.2	14.5	13.8	11.3	13.6	15.3	13.8	13.7	15.6	13.7	13.6	12.9	9.1	11.2	
50-59	28.1	23.8	15.6	9.6	11.5	6.7	5.4	11.8	15.1	13.6	16.4	13.9	15.4	15.5	9.9	13.5	10.9	10.0	9.6	7.8	
60-64	.	25.0	.	.	12.2	6.8	5.2	13.6	12.9	19.4	9.3	13.4	4.0	11.1	20.3	13.8	8.0	10.9	7.0	7.2	
65-69	.	.	.	20.0	.	19.8	5.9	12.8	10.0	.	11.5	5.3	8.7	12.6	4.4	9.6	9.7	6.2	9.3	7.7	
70-79	.	.	.	.	.	.	11.1	.	.	.	.	.	.	9.1	.	11.7	9.3	10.7	10.4	3.9
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	100.0	.	.	.	.	.	.
Male	25.4	24.1	24.9	22.5	22.7	18.5	15.2	17.7	23.0	17.2	17.7	16.3	17.0	16.3	16.9	14.7	14.1	13.0	11.4	11.1	
Female	20.8	22.6	22.9	21.7	19.9	18.7	16.7	18.6	18.4	19.5	19.1	17.8	18.6	20.3	16.9	16.9	17.3	14.2	15.0	15.0	
White	22.3	21.8	23.2	21.6	20.1	16.7	14.8	17.5	19.4	16.4	16.9	15.0	16.2	15.8	15.8	14.1	13.6	12.2	11.8	11.1	
Black	34.7	34.8	30.4	28.7	35.0	30.1	23.4	23.7	35.6	32.6	31.1	31.7	28.0	29.6	24.6	24.3	25.3	21.5	19.9	22.3	
Other race	15.8	28.0	18.7	10.2	10.7	15.2	10.4	9.5	14.1	9.9	12.4	9.3	16.6	18.5	7.6	11.7	10.9	10.6	11.4	8.4	
†Hispanic	15.1	12.2	13.3	12.3
†Non-Hispanic	15.5	13.7	12.9	12.8
Diabetes	15.7	21.7	20.4	23.4	21.4	13.1	15.8	16.7	21.3	16.4	17.6	14.4	15.8	15.8	13.2	11.6	13.1	9.8	9.7	10.4	
Hypertension	24.8	23.6	26.4	23.2	23.3	18.9	15.8	15.2	27.8	21.1	22.0	23.2	21.9	16.0	22.3	20.6	17.2	15.9	16.8	18.3	
Glomerulonephritis	25.1	26.9	27.7	23.9	22.8	21.4	16.6	18.5	25.4	20.3	17.2	19.3	18.6	21.8	20.1	19.5	17.5	16.2	16.3	14.7	
Other cause	24.0	20.8	21.2	19.3	19.9	18.7	15.1	19.4	15.3	16.1	18.7	14.3	16.4	16.7	13.8	12.6	14.5	12.1	10.6	10.5	
First transplant	24.0	23.6	24.2	22.2	21.9	18.5	16.2	18.0	21.1	18.0	17.5	16.2	17.7	17.7	16.2	15.5	14.9	13.1	12.5	12.2	
Subsequent txs	15.0	22.7	23.1	21.6	17.8	19.3	12.5	18.4	22.9	19.3	28.6	25.4	18.1	20.7	24.3	18.0	22.3	18.3	18.1	18.3	
All	23.5	23.5	24.2	22.2	21.6	18.5	15.8	18.0	21.2	18.1	18.3	16.9	17.7	18.0	16.9	15.7	15.5	13.5	13.0	12.7	
ADJUSTED																					
0-19	37.9	32.1	40.5	37.2	35.8	36.0	34.5	34.1	32.0	26.2	30.6	22.9	30.6	30.5	22.4	23.2	23.7	22.8	19.6	21.9	
20-44	22.5	24.1	23.8	22.7	21.8	19.5	16.3	17.4	21.3	19.0	17.4	17.7	17.9	17.4	17.9	16.1	16.9	14.3	15.4	15.1	
45-64	23.5	21.9	14.2	11.3	13.5	8.5	7.6	13.1	14.3	12.4	15.9	13.3	13.0	13.9	12.9	12.4	11.3	11.0	8.9	8.9	
65-74	.	.	.	15.6	.	16.9	7.4	11.5	10.8	.	12.7	4.5	8.3	11.5	3.3	8.7	9.3	7.2	8.4	5.3	
75+	.	.	.	.	.	.	.	.	.	.	.	.	.	62.4	.	31.9	.	.	18.2	16.7
Male	24.3	22.9	23.2	21.0	21.5	17.9	14.7	17.1	21.4	16.2	17.0	15.5	16.6	15.8	16.0	14.4	13.8	13.2	11.8	11.6	
Female	19.8	21.5	21.5	20.6	18.7	17.8	16.5	18.1	17.2	18.3	18.2	16.7	18.1	19.4	16.4	16.5	17.6	14.5	15.5	15.7	
White	20.8	20.4	21.8	20.1	18.9	16.1	14.4	17.0	17.8	15.3	15.9	14.0	15.5	15.2	15.3	13.9	13.7	12.5	12.2	11.6	
Black	31.1	30.8	26.9	26.4	30.4	27.6	21.3	21.8	30.9	27.8	26.4	28.3	25.8	27.3	22.7	22.5	24.1	20.6	19.1	22.2	
Other race	17.8	27.2	18.8	9.8	9.8	14.0	10.4	9.1	13.6	9.1	12.7	8.4	16.2	17.5	7.4	11.4	10.9	10.4	11.5	8.6	
Diabetes	17.3	23.5	22.0	24.6	23.2	14.7	17.5	18.5	23.2	18.3	19.4	15.9	17.6	17.6	14.7	13.2	15.4	11.7	11.7	12.5	
Hypertension	23.1	21.2	23.3	21.6	21.7	17.5	14.6	14.1	25.3	20.1	21.9	22.3	21.6	15.9	21.9	20.2	17.4	16.3	17.2	18.6	
Glomerulonephritis	23.5	25.7	26.2	22.8	21.5	20.6	16.2	17.7	23.5	18.8	16.3	18.1	18.1	20.5	19.2	18.8	17.3	16.2	16.5	15.2	
Other cause	21.3	18.6	19.3	17.3	18.0	17.5	14.5	18.4	13.1	14.0	16.7	12.4	14.8	15.0	12.2	11.5	13.2	11.6	10.3	10.2	
First transplant	22.8	22.3	22.7	20.9	20.8	18.0	16.0	17.6	19.7	17.0	16.8	15.4	17.3	17.0	15.5	15.1	14.9	13.4	13.0	12.8	
Subsequent txs	15.3	21.0	21.3	20.6	17.2	18.6	12.1	17.5	21.2	17.8	27.3	24.1	17.4	20.8	24.2	17.9	22.0	18.5	18.6	19.1	
All	22.5	22.4	22.7	20.9	20.5	18.0	15.5	17.5	19.8	17.1	17.5	16.1	17.3	17.3	16.2	15.3	15.4	13.8	13.4	13.3	

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 transplantation: outcomes

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	.	25.0	31.4	50.0	42.9	50.0	19.8	54.9	25.4	24.1	13.9	24.9	39.5	16.2	30.4
1-4	80.0	44.4	84.4	47.1	45.3	28.6	39.7	38.7	42.5	10.6	38.6	33.5	24.4	24.4	25.9
5-9	45.7	49.7	66.5	67.0	47.7	47.8	47.0	62.3	53.0	47.2	37.5	34.5	40.9	39.0	31.3
10-14	54.6	64.1	59.8	53.4	54.0	61.3	53.6	49.1	56.2	42.3	38.9	43.6	44.6	44.5	33.1
15-19	48.7	41.9	50.2	49.9	45.8	56.7	46.1	44.7	48.3	43.6	58.8	40.3	51.1	48.3	52.9
20-29	34.0	35.6	39.6	36.9	36.2	35.7	39.4	38.2	35.5	37.8	35.9	35.5	39.2	36.7	37.8
30-39	23.5	33.7	30.4	30.1	32.2	35.4	29.3	31.1	32.4	29.9	29.9	26.8	32.2	29.4	29.5
40-49	31.9	31.1	24.4	23.0	29.9	23.1	23.3	28.3	23.4	23.2	26.7	26.2	23.1	27.9	30.4
50-59	28.1	30.4	19.2	16.0	21.0	19.0	16.6	21.3	26.3	25.0	26.3	27.7	23.3	26.2	21.5
60-64	.	25.0	.	.	19.8	8.9	10.0	31.5	19.1	24.2	25.6	31.0	15.6	26.2	35.8
65-69	.	.	.	20.0	25.0	33.2	9.7	25.7	10.0	.	18.8	11.6	18.2	12.6	11.3
70-79	.	.	.	.	.	.	11.1	20.0	.	.	.	.	.	22.1	.
80+	.	.	.	.	.	.	.	.	.	.	.	.	.	100.0	.
Male	35.0	36.1	35.7	33.6	34.3	32.7	28.9	32.5	35.9	30.2	32.1	28.4	31.1	28.5	32.0
Female	31.5	36.3	35.4	32.5	34.5	33.7	31.4	33.5	32.5	34.9	34.7	34.2	33.3	36.8	32.3
White	32.6	34.7	34.0	31.6	32.8	30.8	27.8	31.2	31.3	29.9	31.1	28.1	29.6	29.1	30.6
Black	44.8	47.5	46.9	45.1	48.5	49.2	43.4	45.6	58.8	50.2	52.6	51.0	49.3	47.5	43.3
Other race	15.8	36.0	27.0	23.3	23.7	23.7	26.4	23.6	28.5	26.1	25.5	22.9	28.3	33.5	17.3
†Hispanic															
†Non-Hispanic															
Diabetes	25.7	35.7	30.7	32.0	35.1	31.4	31.2	35.1	32.6	30.4	32.7	30.8	30.7	31.5	28.7
Hypertension	28.0	33.2	36.5	36.4	39.7	38.8	32.2	35.6	44.0	41.1	39.2	39.0	39.5	30.6	40.4
Glomerulonephritis	38.2	39.8	39.0	34.2	36.0	35.6	33.1	32.9	40.3	35.7	33.9	32.1	34.3	37.5	33.9
Other cause	32.9	33.8	33.7	31.4	30.5	30.1	25.6	31.0	27.4	27.0	31.3	27.5	28.1	28.0	28.9
First transplant	33.8	36.6	35.2	33.1	35.0	33.0	29.4	32.3	34.4	31.8	32.3	30.3	31.5	31.9	31.3
Subsequent txs	29.3	28.0	41.9	33.7	27.3	35.1	34.0	39.4	35.9	37.2	45.3	37.2	39.7	32.8	41.9
All	33.6	36.2	35.6	33.2	34.4	33.1	29.9	32.9	34.6	32.1	33.2	30.9	32.1	31.9	32.1
ADJUSTED															
0-19	55.6	51.1	59.7	57.1	52.3	57.9	49.9	51.4	53.8	43.2	50.5	42.8	48.7	44.6	45.8
20-44	31.8	36.1	34.2	32.9	34.6	33.8	31.7	32.8	32.8	33.0	31.9	30.7	33.6	32.5	31.8
45-64	29.5	31.7	20.2	16.7	22.8	19.4	18.8	25.3	26.3	24.9	29.6	26.9	22.1	25.7	27.0
65-74	.	.	.	16.4	18.6	31.9	11.1	27.1	9.7	.	21.8	10.0	17.3	13.7	7.4
75+	.	.	.	.	.	.	.	.	.	.	.	.	.	16.6	.
Male	33.2	33.8	33.0	31.3	32.3	31.7	28.1	31.1	33.1	28.2	30.3	26.9	30.1	27.4	30.3
Female	30.3	34.7	33.7	31.3	32.9	32.6	31.2	32.8	31.0	33.0	33.5	32.3	32.5	35.1	31.3
White	30.4	32.3	31.8	29.5	30.8	29.6	27.1	30.2	28.8	27.7	29.2	26.2	28.4	27.8	29.5
Black	40.4	42.5	42.2	42.4	42.3	45.9	40.5	42.2	52.0	43.2	45.1	46.1	46.0	44.0	40.0
Other race	18.1	35.8	27.8	23.3	22.6	22.9	27.0	22.8	28.2	24.2	26.9	20.9	28.2	32.3	17.0
Diabetes	28.3	38.0	32.9	33.5	37.6	34.1	33.9	38.0	35.3	33.5	35.3	33.6	33.4	34.2	31.3
Hypertension	25.8	29.9	32.3	34.5	37.2	36.5	30.3	33.2	40.5	38.9	39.0	37.2	38.7	30.3	39.3
Glomerulonephritis	35.7	37.5	36.6	32.4	33.8	34.1	32.4	31.3	37.5	33.2	31.9	30.2	33.3	35.3	32.4
Other cause	28.9	29.8	30.1	28.0	27.4	28.0	24.4	29.3	23.3	23.0	27.7	23.5	25.2	24.7	25.3
First transplant	32.1	34.5	33.0	31.3	33.3	32.1	29.2	31.5	32.3	29.9	30.8	28.8	30.7	30.5	29.9
Subsequent txs	29.3	25.6	38.1	31.6	25.7	33.2	32.0	36.6	33.2	34.1	42.4	34.4	37.7	32.1	40.5
All	32.1	34.3	33.4	31.4	32.6	32.1	29.4	31.9	32.4	30.2	31.7	29.3	31.2	30.7	30.8

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.

Table F.25

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=44,165)

	Percent of patients	All-cause graft failure		
		Haz. ratio	95% CI	P-value
Transplant era (reference: 1999-2001, 47.7% of patients)				
2002-2004	52.3	0.93	(0.89-0.98)	0.0065
Recipient age (years) (reference: 18-34, 13.0% of patients)				
0-17	3.9	1.22	(1.06-1.40)	0.0052
35-49	29.7	0.86	(0.80-0.92)	<.0001
50-64	40.4	1.03	(0.96-1.10)	0.4222
65+	13.0	1.41	(1.30-1.53)	<.0001
Recipient gender (reference: female, 39.7% of patients)				
Male	60.3	1.02	(0.97-1.06)	0.4882
Recipient race (reference: white, 61.8% of patients)				
Black	30.4	1.12	(1.07-1.18)	<.0001
Asian	5.6	0.71	(0.64-0.80)	<.0001
Other/Unknown	2.2	0.78	(0.66-0.92)	0.0032
Recipient ethnicity (reference: non-Hispanic, 86.5% of patients)				
Hispanic	13.5	0.74	(0.69-0.79)	<.0001
Primary cause of ESRD (reference: glomerulonephritis, 23.9% of patients)				
Diabetes	25.2	1.27	(1.19-1.34)	<.0001
Hypertension	21.2	1.15	(1.08-1.23)	<.0001
Cystic kidney disease	9.1	0.72	(0.65-0.79)	<.0001
Other	20.6	1.07	(1.00-1.14)	0.0580
Pre-transplant hepatitis B & C serology (reference: negative/unknown)				
Hep. B Core Ab+	8.8	0.93	(0.86-1.00)	0.0523
Hep. B Surface Ag+	2.1	1.04	(0.90-1.20)	0.6070
Hep. C Ab+	6.3	1.46	(1.35-1.57)	<.0001
Education level (reference: <college, 64.9% of patients)				
College+	13.6	0.94	(0.88-1.01)	0.0706
Unknown	21.5	1.04	(0.99-1.10)	0.1039
Employment status (reference: unable to work, 31.4% of patients)				
Able to work	45.7	0.82	(0.78-0.86)	<.0001
Unknown	23.0	0.94	(0.88-1.00)	0.0359
Primary payor (reference: non-Medicare, 42.6% of patients)				
Medicare	57.4	1.07	(1.02-1.12)	0.0055
Prior dialysis time (years) (reference: <1, 10.8% of patients)				
None (preemptive)	5.5	0.91	(0.80-1.03)	0.1250
1-<2	18.3	1.12	(1.03-1.21)	0.0098
2-<3	17.9	1.21	(1.11-1.31)	<.0001
3+	46.4	1.27	(1.17-1.37)	<.0001
Unknown	1.1	1.23	(1.01-1.51)	0.0396
Donor age (years) (reference: 18-34, 28.4% of patients)				
0-17	15.4	1.07	(0.99-1.16)	0.0823
35-49	28.9	1.21	(1.14-1.29)	<.0001
50-64	23.2	1.43	(1.32-1.54)	<.0001
65+	4.1	1.85	(1.64-2.08)	<.0001
Unknown	0.1	1.70	(0.97-2.98)	0.0625
Donor gender (reference: female, 41.2% of patients)				
Male	58.8	0.95	(0.91-0.99)	0.0139
Donor race (reference: white, 83.7% of patients)				
Black	11.1	1.18	(1.11-1.26)	<.0001
Asian	1.8	1.03	(0.88-1.20)	0.7496
Other/Unknown	3.4	1.06	(0.93-1.21)	0.3652
Donor cause of death (reference: non-trauma, 50.0% of patients)				
Trauma	50.0	0.92	(0.87-0.96)	0.0005

f transplantation: outcomes

Table F.25 (continued)

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=44,165)

	Percent of patients	All-cause graft failure		
		Haz. ratio	95% CI	P-value
HLA mismatches (reference: 3, 16.7% of patients)				
0	12.6	0.86	(0.79-0.93)	0.0002
1	2.8	0.99	(0.87-1.12)	0.8321
2	7.1	0.96	(0.88-1.05)	0.3524
4	23.2	1.04	(0.97-1.11)	0.2829
5	23.0	1.14	(1.07-1.22)	<.0001
6	11.9	1.23	(1.14-1.32)	<.0001
Unknown	2.8	0.95	(0.84-1.07)	0.3912
Cold ischemia time (hours) (reference: 0-12, 20.9% of patients)				
13-24	46.2	1.04	(0.98-1.10)	0.2007
25-36	16.0	1.10	(1.03-1.18)	0.0067
37+	2.4	1.22	(1.08-1.38)	0.0015
Unknown	14.6	1.02	(0.95-1.10)	0.6004
Donor documented history of:				
Diabetes	4.2	1.17	(1.07-1.28)	0.0008
Hypertension	20.6	1.14	(1.08-1.21)	<.0001
Expanded Criteria Donor (reference: non-ECD, 83.2% of patients)				
ECD	16.8	1.11	(1.02-1.21)	0.0170
Body surface area matching (reference: R<=D, 84.9% of patients)				
R 1.6-2.2 m ² , D<1.6m ²	10.6	1.11	(1.04-1.20)	0.0033
R>2.2m ² , D<1.6m ²	1.5	1.32	(1.13-1.53)	0.0003
Unknown	2.9	0.97	(0.79-1.19)	0.7675
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m ² , 35.2% of patients)				
<18.5 kg/m ²	4.4	1.04	(0.93-1.16)	0.5022
25.0-29.9 kg/m ²	32.6	1.01	(0.96-1.06)	0.8384
30.0-34.9 kg/m ²	17.8	1.11	(1.04-1.18)	0.0009
≥35.0 kg/m ²	8.0	1.17	(1.08-1.27)	0.0001
Unknown	2.1	1.10	(0.87-1.41)	0.4214
PRA (reference: ≤50%, 96.1% of patients)				
>50%	3.9	1.22	(1.10-1.36)	0.0002
CMV serology (reference: donor-/recipient-, 15.7% of patients)				
Donor-/Recipient+	22.4	1.03	(0.96-1.11)	0.3558
Donor+/Recipient+	38.4	1.07	(1.00-1.14)	0.0448
Donor+/Recipient-	23.4	1.11	(1.04-1.19)	0.0019
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 42.1% of patients)				
Cyclosporine Microemulsion & MMF	26.8	1.09	(1.04-1.15)	0.0014
Tacrolimus & Rapamycin	4.4	1.35	(1.21-1.50)	<.0001
Tacrolimus	4.4	1.38	(1.25-1.53)	<.0001
None listed	3.9	4.00	(3.71-4.31)	<.0001
Other	18.5	1.53	(1.45-1.62)	<.0001

Table F.25 (continued)

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=44,165)

	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, 47.7% of patients)						
2002-2004	0.98	(0.92-1.05)	0.6266	0.88	(0.82-0.94)	0.0004
Recipient age (years) (reference: 18-34, 13.0% of patients)						
0-17	1.35	(1.16-1.58)	0.0001	0.89	(0.62-1.28)	0.5331
35-49	0.70	(0.65-0.76)	<.0001	1.75	(1.49-2.06)	<.0001
50-64	0.57	(0.52-0.62)	<.0001	3.47	(2.97-4.06)	<.0001
65+	0.57	(0.51-0.64)	<.0001	5.91	(5.01-6.98)	<.0001
Recipient gender (reference: female, 39.7% of patients)						
Male	0.96	(0.90-1.01)	0.1166	1.09	(1.02-1.16)	0.0088
Recipient race (reference: white, 61.8% of patients)						
Black	1.39	(1.30-1.49)	<.0001	0.84	(0.78-0.91)	<.0001
Asian	0.74	(0.64-0.86)	0.0001	0.68	(0.57-0.80)	<.0001
Other/Unknown	0.83	(0.65-1.04)	0.1098	0.73	(0.58-0.92)	0.0076
Recipient ethnicity (reference: non-Hispanic, 86.5% of patients)						
Hispanic	0.80	(0.73-0.88)	<.0001	0.66	(0.59-0.73)	<.0001
Primary cause of ESRD (reference: glomerulonephritis, 23.9% of patients)						
Diabetes	0.84	(0.78-0.92)	<.0001	2.09	(1.91-2.30)	<.0001
Hypertension	0.99	(0.92-1.07)	0.8503	1.51	(1.37-1.68)	<.0001
Cystic kidney disease	0.70	(0.62-0.79)	<.0001	0.82	(0.71-0.95)	0.0096
Other	0.89	(0.82-0.97)	0.0060	1.49	(1.34-1.66)	<.0001
Pre-transplant hepatitis B & C serology (reference: negative/unknown)						
Hep. B Core Ab+	0.93	(0.84-1.03)	0.1514	0.93	(0.83-1.04)	0.2127
Hep. B Surface Ag+	1.01	(0.83-1.23)	0.9040	1.07	(0.87-1.33)	0.5210
Hep. C Ab+	1.39	(1.26-1.55)	<.0001	1.55	(1.38-1.73)	<.0001
Education level (reference: <college, 64.9% of patients)						
College+	0.97	(0.88-1.06)	0.4878	0.91	(0.83-1.00)	0.0440
Unknown	1.07	(0.99-1.14)	0.0725	1.01	(0.94-1.09)	0.8216
Employment status (reference: unable to work, 31.4% of patients)						
Able to work	0.89	(0.83-0.94)	0.0002	0.74	(0.69-0.79)	<.0001
Unknown	0.92	(0.85-1.00)	0.0469	0.96	(0.88-1.05)	0.3444
Primary payor (reference: non-Medicare, 42.6% of patients)						
Medicare	1.21	(1.13-1.29)	<.0001	0.92	(0.86-0.99)	0.0235
Prior dialysis time (years) (reference: <1, 10.8% of patients)						
None (preemptive)	0.76	(0.63-0.91)	0.0026	1.10	(0.92-1.32)	0.3031
1-<2	1.07	(0.96-1.20)	0.2016	1.17	(1.03-1.32)	0.0178
2-<3	1.11	(0.99-1.24)	0.0680	1.34	(1.18-1.52)	<.0001
3+	1.05	(0.95-1.17)	0.3643	1.59	(1.41-1.79)	<.0001
Unknown	0.80	(0.58-1.10)	0.1687	1.78	(1.37-2.31)	<.0001
Donor age (years) (reference: 18-34, 28.4% of patients)						
0-17	1.14	(1.03-1.26)	0.0107	0.99	(0.88-1.11)	0.8401
35-49	1.25	(1.15-1.37)	<.0001	1.17	(1.06-1.28)	0.0010
50-64	1.57	(1.41-1.75)	<.0001	1.28	(1.14-1.44)	<.0001
65+	2.21	(1.87-2.60)	<.0001	1.57	(1.32-1.88)	<.0001
Unknown	2.23	(1.19-4.19)	0.0124	0.70	(0.17-2.91)	0.6179
Donor gender (reference: female, 41.2% of patients)						
Male	0.90	(0.85-0.96)	0.0007	1.00	(0.94-1.07)	0.9866
Donor race (reference: white, 83.7% of patients)						
Black	1.31	(1.21-1.42)	<.0001	1.01	(0.92-1.12)	0.7863
Asian	1.07	(0.87-1.33)	0.5206	0.99	(0.77-1.26)	0.9008
Other/Unknown	1.12	(0.95-1.34)	0.1816	1.00	(0.82-1.22)	0.9697
Donor cause of death (reference: non-trauma, 50.0% of patients)						
Trauma	0.88	(0.82-0.94)	0.0001	0.96	(0.90-1.04)	0.3298

Table F.25 (continued)

Risk factors for graft failure: deceased donor transplants, 1999-2004 (n=44,165)

	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	0.81	(0.72-0.91)	0.0005	0.89	(0.79-1.00)	0.0571
1	0.90	(0.75-1.08)	0.2533	1.07	(0.90-1.28)	0.4172
2	1.05	(0.93-1.18)	0.4646	0.86	(0.76-0.98)	0.0277
4	1.07	(0.98-1.16)	0.1561	1.01	(0.91-1.11)	0.9029
5	1.23	(1.13-1.34)	<.0001	1.04	(0.94-1.15)	0.4193
6	1.31	(1.18-1.44)	<.0001	1.15	(1.02-1.28)	0.0173
Unknown	0.87	(0.73-1.03)	0.1122	1.03	(0.87-1.23)	0.7176
Cold ischemia time (hours) (reference: 0-12, 20.9% of patients)						
13-24	1.10	(1.02-1.19)	0.0122	0.96	(0.89-1.05)	0.3884
25-36	1.19	(1.09-1.31)	0.0002	1.00	(0.90-1.10)	0.9521
37+	1.44	(1.23-1.69)	<.0001	0.99	(0.81-1.20)	0.9031
Unknown	1.03	(0.93-1.13)	0.6284	1.00	(0.90-1.11)	0.9860
Donor documented history of:						
Diabetes	1.16	(1.02-1.31)	0.0191	1.19	(1.04-1.36)	0.0102
Hypertension	1.16	(1.08-1.26)	0.0001	1.11	(1.02-1.21)	0.0180
Expanded Criteria Donor (reference: non-ECD, 83.2% of patients)						
ECD	1.20	(1.07-1.35)	0.0018	1.03	(0.91-1.17)	0.6739
Body surface area matching (reference: R<=D, 84.9% of patients)						
R 1.6-2.2 m ² , D<1.6m ²	1.17	(1.06-1.28)	0.0017	1.05	(0.94-1.17)	0.3760
R>2.2m ² , D<1.6m ²	1.36	(1.11-1.66)	0.0030	1.24	(0.98-1.56)	0.0682
Unknown	0.99	(0.76-1.29)	0.9431	0.93	(0.68-1.27)	0.6320
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m ² , 35.2% of patients)						
<18.5 kg/m ²	0.99	(0.86-1.14)	0.8613	1.17	(0.98-1.40)	0.0905
25.0-29.9 kg/m ²	1.06	(0.99-1.14)	0.0916	0.94	(0.87-1.01)	0.0870
30.0-34.9 kg/m ²	1.19	(1.10-1.29)	<.0001	1.01	(0.92-1.10)	0.8724
≥35.0 kg/m ²	1.19	(1.07-1.33)	0.0012	1.13	(1.00-1.27)	0.0473
Unknown	1.06	(0.77-1.46)	0.7142	1.18	(0.82-1.71)	0.3776
PRA (reference: <=50%, 96.1% of patients)						
>50%	1.25	(1.09-1.44)	0.0015	1.19	(1.01-1.40)	0.0350
CMV serology (reference: donor-/recipient-, 15.7% of patients)						
Donor-/Recipient+	1.02	(0.93-1.13)	0.6398	1.04	(0.93-1.15)	0.4889
Donor+/Recipient+	1.07	(0.98-1.16)	0.1517	1.07	(0.97-1.18)	0.2074
Donor+/Recipient-	1.07	(0.97-1.17)	0.1673	1.17	(1.05-1.30)	0.0034
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 42.1% of patients)						
Cyclosporine Microemulsion & MMF	1.02	(0.95-1.10)	0.5651	1.17	(1.09-1.27)	<.0001
Tacrolimus & Rapamycin	1.38	(1.20-1.58)	<.0001	1.32	(1.12-1.55)	0.0008
Tacrolimus	1.43	(1.25-1.64)	<.0001	1.31	(1.12-1.52)	0.0007
None listed	4.21	(3.81-4.66)	<.0001	3.73	(3.32-4.18)	<.0001
Other	1.61	(1.50-1.74)	<.0001	1.44	(1.33-1.57)	<.0001

Table F.26

Risk factors for graft failure: living donor transplants, 1999-2004 (n=32,030)

	Percent of patients	All-cause graft failure		
		Haz. ratio	95% CI	P-value
Transplant era (reference: 1999-2001, 46.0% of patients)				
2002-2004	54.0	0.87	(0.80-0.94)	0.0006
Donor relationship (reference: related, 63.3% of patients)				
Distant/unrelated	36.5	1.08	(0.99-1.18)	0.0950
Unknown	0.2	0.96	(0.51-1.83)	0.9058
Recipient age (years) (reference: 18-34, 22.1% of patients)				
0-17	7.1	1.02	(0.87-1.20)	0.7937
35-49	31.7	0.80	(0.73-0.88)	<.0001
50-64	31.3	0.91	(0.83-1.00)	0.0588
65+	7.8	1.20	(1.05-1.38)	0.0085
Recipient gender (reference: female, 41.1% of patients)				
Male	58.9	0.92	(0.86-0.98)	0.0121
Recipient race (reference: white, 77.9% of patients)				
Black	15.6	1.17	(0.96-1.41)	0.1149
Asian	3.9	0.67	(0.50-0.90)	0.0076
Other/Unknown	2.7	0.82	(0.62-1.08)	0.1634
Recipient ethnicity (reference: non-Hispanic, 87.0% of patients)				
Hispanic	13.0	0.78	(0.69-0.87)	<.0001
Primary cause of ESRD (reference: glomerulonephritis, 26.6% of patients)				
Diabetes	22.2	1.19	(1.09-1.31)	0.0002
Hypertension	14.0	0.99	(0.89-1.11)	0.8942
Cystic kidney disease	9.5	0.69	(0.60-0.81)	<.0001
Other	27.8	0.90	(0.82-0.99)	0.0272
Pre-transplant hepatitis B & C serology (reference: negative/unknown)				
Hep. B Core Ab+	6.1	0.87	(0.76-1.01)	0.0695
Hep. B Surface Ag+	1.5	1.12	(0.85-1.47)	0.4250
Hep. C Ab+	2.7	1.37	(1.15-1.63)	0.0004
Education level (reference: <college, 61.2% of patients)				
College+	19.0	0.80	(0.72-0.88)	<.0001
Unknown	19.8	0.99	(0.91-1.07)	0.7466
Employment status (reference: unable to work, 22.1% of patients)				
Able to work	56.6	0.83	(0.76-0.90)	<.0001
Unknown	21.2	0.91	(0.82-1.01)	0.0889
Primary payor (reference: non-Medicare, 70.3% of patients)				
Medicare	29.7	1.10	(1.02-1.19)	0.0181
Prior dialysis time (years) (reference: <1, 34.1% of patients)				
None (preemptive)	23.3	0.81	(0.73-0.89)	<.0001
1-<2	21.0	1.19	(1.09-1.30)	0.0001
2-<3	9.1	1.27	(1.13-1.43)	<.0001
3+	10.3	1.36	(1.22-1.53)	<.0001
Unknown	2.2	0.74	(0.57-0.97)	0.0300
Donor age (years) (reference: <35, 32.9% of patients)				
35-49	47.2	1.17	(1.08-1.26)	0.0001
50-64	18.9	1.22	(1.11-1.35)	<.0001
65+	0.9	1.86	(1.41-2.45)	<.0001
Unknown	0.1	2.20	(0.80-6.10)	0.1278
Donor gender (reference: female, 58.3% of patients)				
Male	41.7	0.90	(0.84-0.96)	0.0021
Donor race (reference: white, 79.1% of patients)				
Black	14.0	1.11	(0.91-1.36)	0.2882
Asian	2.5	0.82	(0.56-1.21)	0.3214
Other/Unknown	4.5	1.26	(1.03-1.54)	0.0272

f transplantation: outcomes

Table F.26 (continued)

Risk factors for graft failure: living donor transplants, 1999-2004 (n=32,030)

	Percent of patients	All-cause graft failure		
		Haz. ratio	95% CI	P-value
HLA mismatches (reference: 3, 29.5% of patients)				
0	10.0	0.57	(0.50-0.66)	<.0001
1	6.5	0.90	(0.78-1.03)	0.1310
2	19.2	0.90	(0.82-0.99)	0.0283
4	12.0	0.94	(0.84-1.06)	0.3324
5	13.9	1.01	(0.90-1.13)	0.8967
6	7.2	0.99	(0.85-1.14)	0.8488
Unknown	1.7	1.04	(0.83-1.30)	0.7277
Body surface area matching (reference: R<=D, 68.6% of patients)				
R 1.6-2.2 m ² , D<1.6m ²	4.6	1.02	(0.86-1.20)	0.8248
R>2.2m ² , D<1.6m ²	0.5	1.05	(0.68-1.62)	0.8245
Unknown	26.3	1.04	(0.96-1.12)	0.3545
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m ² , 37.2% of patients)				
<18.5 kg/m ²	6.3	1.08	(0.93-1.26)	0.3133
25.0-29.9 kg/m ²	29.7	0.98	(0.90-1.07)	0.7072
30.0-34.9 kg/m ²	15.8	1.22	(1.11-1.35)	<.0001
≥35.0 kg/m ²	7.0	1.52	(1.35-1.72)	<.0001
Unknown	4.0	0.97	(0.81-1.16)	0.7503
PRA (reference: <=50, 98.0% of patients)				
>50%	2.0	1.27	(1.02-1.58)	0.0353
CMV serology (reference: donor-/recipient-, 29.8% of patients)				
Donor-/Recipient+	21.3	1.08	(0.98-1.19)	0.1287
Donor+/Recipient-	31.9	1.02	(0.93-1.11)	0.7085
Donor+/Recipient+	17.0	1.07	(0.96-1.18)	0.2162
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 42.3% of patients)				
Cyclosporine Microemulsion & MMF	26.9	0.92	(0.85-1.01)	0.0782
Tacrolimus & Rapamycin	5.5	1.08	(0.92-1.28)	0.3456
Tacrolimus	4.0	1.08	(0.90-1.29)	0.3996
None listed	3.5	3.54	(3.12-4.02)	<.0001
Other	17.7	1.56	(1.43-1.70)	<.0001

Table F.26 (continued)

Risk factors for graft failure: living donor transplants, 1999-2004 (n=32,030)

	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, 46.0% of patients)						
2002-2004	0.88	(0.79-0.98)	0.0210	0.84	(0.74-0.96)	0.0090
Donor relationship (reference: related, 63.3% of patients)						
Distant/unrelated	1.05	(0.93-1.17)	0.4484	1.13	(0.98-1.30)	0.0889
Unknown	0.45	(0.14-1.46)	0.1856	1.68	(0.78-3.63)	0.1886
Recipient age (years) (reference: 18-34, 22.1% of patients)						
0-17	1.21	(1.01-1.45)	0.0390	0.62	(0.41-0.93)	0.0209
35-49	0.63	(0.57-0.71)	<.0001	1.70	(1.38-2.08)	<.0001
50-64	0.45	(0.40-0.51)	<.0001	3.30	(2.72-4.00)	<.0001
65+	0.39	(0.31-0.49)	<.0001	5.37	(4.28-6.73)	<.0001
Recipient gender (reference: female, 41.1% of patients)						
Male	0.79	(0.73-0.86)	<.0001	1.13	(1.01-1.26)	0.0350
Recipient race (reference: white, 77.9% of patients)						
Black	1.32	(1.04-1.68)	0.0235	0.96	(0.70-1.33)	0.8219
Asian	0.68	(0.47-1.00)	0.0471	0.66	(0.41-1.05)	0.0773
Other/Unknown	0.94	(0.67-1.32)	0.7213	0.65	(0.41-1.04)	0.0735
Recipient ethnicity (reference: non-Hispanic, 87.0% of patients)						
Hispanic	0.86	(0.75-0.99)	0.0362	0.64	(0.53-0.77)	<.0001
Primary cause of ESRD (reference: glomerulonephritis, 26.6% of patients)						
Diabetes	0.81	(0.71-0.92)	0.0010	2.10	(1.81-2.45)	<.0001
Hypertension	0.92	(0.81-1.05)	0.2281	1.26	(1.05-1.52)	0.0141
Cystic kidney disease	0.70	(0.58-0.85)	0.0003	0.77	(0.60-1.00)	0.0516
Other	0.72	(0.64-0.80)	<.0001	1.46	(1.23-1.72)	<.0001
Pre-transplant hepatitis B & C serology (reference: negative/unknown)						
Hep. B Core Ab+	0.85	(0.70-1.02)	0.0854	0.92	(0.74-1.16)	0.4935
Hep. B Surface Ag+	1.00	(0.69-1.44)	0.9801	1.31	(0.87-1.97)	0.2001
Hep. C Ab+	1.28	(1.01-1.62)	0.0436	1.49	(1.15-1.92)	0.0022
Education level (reference: <college, 61.2% of patients)						
College+	0.82	(0.72-0.94)	0.0031	0.75	(0.65-0.88)	0.0002
Unknown	1.00	(0.89-1.12)	0.9947	0.96	(0.84-1.09)	0.5045
Employment status (reference: unable to work, 22.1% of patients)						
Able to work	0.80	(0.72-0.89)	<.0001	0.86	(0.76-0.97)	0.0165
Unknown	0.85	(0.74-0.97)	0.0152	1.03	(0.87-1.21)	0.7370
Primary payor (reference: non-Medicare, 70.3% of patients)						
Medicare	1.16	(1.05-1.29)	0.0048	1.03	(0.91-1.16)	0.6596
Prior dialysis time (years) (reference: <1, 34.1% of patients)						
None (preemptive)	0.94	(0.83-1.07)	0.3543	0.63	(0.53-0.75)	<.0001
1-<2	1.13	(1.01-1.27)	0.0350	1.25	(1.09-1.43)	0.0014
2-<3	1.16	(0.99-1.36)	0.0600	1.39	(1.17-1.66)	0.0002
3+	1.17	(1.01-1.36)	0.0411	1.66	(1.39-1.97)	<.0001
Unknown	0.73	(0.51-1.04)	0.0829	0.77	(0.51-1.17)	0.2226
Donor age (years) (reference: <35, 32.9% of patients)						
35-49	1.19	(1.08-1.31)	0.0007	1.13	(1.00-1.28)	0.0552
50-64	1.29	(1.13-1.46)	0.0001	1.13	(0.97-1.32)	0.1130
65+	2.16	(1.44-3.25)	0.0002	1.55	(1.06-2.27)	0.0253
Unknown	3.22	(0.99-10.45)	0.0522	1.54	(0.21-11.52)	0.6750
Donor gender (reference: female, 58.3% of patients)						
Male	0.86	(0.79-0.95)	0.0014	0.96	(0.86-1.07)	0.4551
Donor race (reference: white, 79.1% of patients)						
Black	1.24	(0.97-1.59)	0.0891	0.90	(0.64-1.26)	0.5209
Asian	0.68	(0.40-1.15)	0.1463	1.00	(0.57-1.76)	0.9988
Other/Unknown	1.33	(1.03-1.71)	0.0272	1.15	(0.81-1.61)	0.4353

Table F.26 (continued)

Risk factors for graft failure: living donor transplants, 1999-2004 (n=32,030)

	All-cause graft failure			Death with function		
	Haz. ratio	95% CI	P-value	Haz. ratio	95% CI	P-value
HLA mismatches (reference: 3, 29.5% of patients)						
0	0.49	(0.40-0.59)	<.0001	0.72	(0.58-0.90)	0.0041
1	0.84	(0.70-1.02)	0.0760	0.97	(0.78-1.20)	0.7712
2	0.87	(0.77-0.98)	0.0252	0.95	(0.82-1.10)	0.4948
4	0.97	(0.83-1.14)	0.7321	0.90	(0.74-1.09)	0.2651
5	1.03	(0.88-1.20)	0.7118	0.98	(0.81-1.17)	0.8059
6	1.09	(0.90-1.31)	0.3887	0.85	(0.67-1.08)	0.1804
Unknown	1.03	(0.78-1.37)	0.8205	1.03	(0.73-1.47)	0.8547
Body surface area matching (reference: R<=D, 68.6% of patients)						
R 1.6-2.2 m ² , D<1.6m ²	1.10	(0.89-1.36)	0.3726	0.91	(0.70-1.18)	0.4709
R>2.2m ² , D<1.6m ²	0.95	(0.52-1.74)	0.8743	1.17	(0.62-2.19)	0.6277
Unknown	1.07	(0.97-1.18)	0.2059	1.00	(0.88-1.13)	0.9622
Recipient body mass index (BMI) (reference: 18.5-24.9 kg/m ² , 37.2% of patients)						
<18.5 kg/m ²	0.95	(0.79-1.15)	0.6132	1.48	(1.13-1.94)	0.0048
25.0-29.9 kg/m ²	1.06	(0.95-1.19)	0.2940	0.87	(0.77-1.00)	0.0463
30.0-34.9 kg/m ²	1.29	(1.13-1.47)	0.0001	1.10	(0.95-1.28)	0.2152
≥35.0 kg/m ²	1.69	(1.45-1.96)	<.0001	1.25	(1.03-1.53)	0.0249
Unknown	0.77	(0.60-0.99)	0.0428	1.25	(0.96-1.62)	0.0953
PRA (reference: <=50, 98.0% of patients)						
>50%	1.37	(1.05-1.80)	0.0224	1.12	(0.76-1.63)	0.5708
CMV serology (reference: donor-/recipient-, 29.8% of patients)						
Donor-/Recipient+	1.02	(0.90-1.16)	0.7727	1.14	(0.99-1.32)	0.0742
Donor+/Recipient-	1.03	(0.92-1.15)	0.6522	1.01	(0.88-1.17)	0.8619
Donor+/Recipient+	1.03	(0.91-1.17)	0.6214	1.12	(0.95-1.33)	0.1659
Baseline Immunosuppressive Regimen (reference: Tacrolimus & MMF, 42.3% of patients)						
Cyclosporine Microemulsion & MMF	0.85	(0.75-0.95)	0.0060	1.02	(0.89-1.16)	0.8298
Tacrolimus & Rapamycin	0.96	(0.77-1.19)	0.6913	1.27	(0.99-1.63)	0.0576
Tacrolimus	0.97	(0.76-1.23)	0.7913	1.26	(0.96-1.64)	0.0961
None listed	4.02	(3.44-4.70)	<.0001	2.85	(2.29-3.53)	<.0001
Other	1.65	(1.47-1.85)	<.0001	1.43	(1.24-1.65)	<.0001