

B

Guide to Summary Tables

The tables presented in this appendix relate to the discussion in Chapter 5. All tables provide summary data on liver transplantation only.* Because the medical status categories changed in 1998, all statistical analyses were performed on 1998–1999 data. To provide a more complete view of the overall system, tabular displays of summary data from 1995 to 1998 are included, using categories 1, 2 (2, 2A, and 2B), and 3 (3 and 4). Column headings for the tables in this appendix are defined below.

Definitions of Terms That Appear as Table Headings

Avg. Wait: The average number of days waited by patients until transplant, death, or removal from the list. Average waiting times for status 1 patients are listed in days. Waiting times for all other status patients are listed in months.

Max. Wait: The maximum number of days waited by any patient in a particular status level until transplant, death, or removal from the list.

% TX: The number of patients transplanted in a particular status level, divided by the number of patients ever in that status level, multiplied by 100.

- % Died:** The number of patients who died in a particular status level, divided by the number of patients ever in that status level, multiplied by 100.
- % Other:** The number of patients who neither died nor were transplanted in a particular status level, divided by the number of patients ever in that status level, multiplied by 100.
- % Died Post-TX:** The number of patients who died following transplantation, divided by the number of patients ever transplanted in that status level, multiplied by 100 for a particular status level at the time of transplantation.
- % Male:** The percentage of male patients in a particular status level.
- % B or AB:** The percentage of patients with blood type B or AB out of all patients ever in that status level.
- % Black:** The percentage of African American patients ever in that status level.
- Age:** The average for patients in that status level.
- MMLE:** Maximum marginal likelihood estimate—an estimate of an unknown parameter in a statistical model that produces the greatest probability of the model given the data.
- SE:** Standard error—a measure of uncertainty in an estimated parameter of a statistical model.
- P:** The probability associated with a test of the null hypothesis that the true parameter value is zero.
- N:** The number of patients ever listed in that status category during the period analyzed.
- OPO:** Organ procurement organization. The numbers in this column are coded. To conduct the analysis, the identities of 52 OPOs were encrypted (10 OPOs do not perform liver transplants). Therefore, the number assigned to each OPO does not match the number assigned to OPOs on the UNOS regional map found in Chapter 1 (Figure 1-1).
- Total No. of TX:** The total number of transplants performed in an OPO regardless of status level.
- Total No. of Listings:** The total number of patient listings in an OPO regardless of status.
- Overall Percentage:** The total number of transplants divided by the total number of patient listings for a particular OPO regardless of listing or transplant status.

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TABLE B-1 Transplants, Mortality, Waiting Time, and Demographics by OPO Patients During Status 1, Sorted by OPO Volume, 1995–1999

OPO	N	Avg. Wait	Max. Wait	% TX	% Died	% Other*	% Died Post-TX	% Male	% B or AB	% Black	Age
14	567	9	59	49	12	38	13	53	16	13	37
59	504	6	55	54	8	38	15	61	14	6	40
7	415	4	28	52	8	40	11	57	17	12	37
47	392	3	18	65	5	30	8	51	16	5	37
5	321	4	22	51	9	40	6	52	18	5	34
49	296	3	15	69	6	25	8	48	13	15	40
22	242	3	16	53	5	42	12	55	16	10	36
39	226	4	47	55	3	42	6	65	19	3	45
42	203	11	83	45	17	38	12	54	13	10	25
46	188	5	31	41	11	48	14	58	17	26	39
29	127	4	17	53	9	38	7	50	18	6	32
41	107	4	23	43	10	47	13	50	17	17	33
52	96	4	40	48	18	34	8	52	14	10	34
24	79	4	15	61	6	33	8	48	15	20	33
20	76	4	13	46	8	46	14	50	12	11	41
17	70	4	41	44	14	41	16	43	19	27	29
61	69	3	12	64	3	33	12	58	16	16	29
45	66	4	15	59	6	35	18	55	17	15	23
40	64	4	19	59	16	25	9	47	17	5	35
48	62	4	13	52	2	47	5	60	15	5	35
37	58	4	15	41	10	48	5	47	10	47	36
35	56	4	36	52	11	38	5	43	9	11	34
10	55	3	18	51	7	42	7	55	13	2	43
15	55	3	22	73	5	22	18	53	13	20	33

57	54	3	9	57	9	33	20	57	15	19	41
44	53	4	38	49	6	45	6	66	9	2	44
58	52	5	33	38	15	46	12	48	17	25	47
11	51	4	15	49	8	43	8	45	25	24	18
4	47	3	9	47	9	45	17	60	9	9	43
50	46	4	17	54	7	39	17	61	13	11	35
67	46	5	22	43	13	43	15	46	17	4	33
38	43	5	22	40	28	33	14	49	7	16	35
27	41	5	49	51	2	46	2	32	15	24	27
36	41	5	20	54	10	37	10	49	2	0	34
64	39	5	21	44	18	38	15	62	13	0	36
23	37	4	14	27	27	46	5	43	19	32	32
34	33	3	14	48	9	42	21	55	18	33	27
18	31	3	6	55	16	29	23	52	3	23	38
60	31	3	10	35	6	58	0	42	10	29	39
28	29	4	16	69	14	17	24	66	10	0	33
32	28	4	10	46	7	46	25	54	36	11	47
33	28	2	9	46	4	50	14	50	11	0	38
63	27	3	13	52	4	44	22	67	22	0	45
26	26	7	22	38	12	50	4	46	0	4	27
53	25	4	17	48	12	40	16	60	20	12	35
65	23	2	8	61	4	35	9	78	9	0	46
31	21	3	9	19	24	57	5	48	10	0	29
6	15	3	16	87	0	13	20	53	7	7	43
12	15	3	10	20	20	60	0	87	7	0	50
13	9	2	5	33	33	33	11	67	33	0	36
3	6	3	5	50	17	33	0	33	17	67	36
30	3	4	10	33	0	67	0	67	33	0	33

*For example, shifting to another status level, being too sick to receive a transplant, being delisted, receiving a transplant at another OPO, or still waiting

TABLE B-2 Transplants, Mortality, Waiting Time, and Demographics by OPO Patients During Status 1, Sorted by OPO Volume—Adults Only (18 and over), 1995–1999

OPO	N	Avg. Wait	Max. Wait	% TX	% Died	% Other*	% Died Post-TX	% Male	% B or AB	% Black	Age
14	388	9	59	47	14	39	13	53	17	14	47
59	365	5	27	56	7	36	16	62	15	3	50
7	291	4	27	48	10	42	11	58	18	13	46
47	261	3	18	65	5	30	10	49	16	5	47
5	223	4	19	54	10	36	8	53	20	4	47
49	220	3	15	66	7	27	8	41	13	16	47
39	193	4	19	54	4	42	6	63	20	4	47
22	172	3	16	54	6	40	14	55	17	7	47
46	128	5	29	34	13	53	10	54	18	27	48
42	92	7	43	54	8	38	14	55	15	5	49
29	79	3	16	46	10	44	6	42	15	8	42
41	69	3	12	45	10	45	10	41	17	20	44
52	67	3	10	43	19	37	7	49	16	12	45
20	61	3	13	41	8	51	11	46	13	11	46
24	60	4	15	58	8	33	8	42	18	20	39
10	50	3	18	48	8	44	8	56	14	2	44
44	49	4	38	49	6	45	6	65	10	2	44
40	46	4	12	59	20	22	11	41	15	7	46
37	45	4	15	38	9	53	4	40	9	40	43
4	43	3	9	49	9	42	16	60	9	9	44
48	43	4	13	47	0	53	2	60	14	5	46
58	43	5	33	28	19	53	12	40	19	30	47
15	42	3	12	67	5	29	19	48	17	21	40
57	42	3	9	52	7	40	19	50	14	19	47

35	40	4	15	55	8	38	5	43	8	10	44
17	39	3	12	41	18	41	15	33	10	28	41
61	36	3	10	64	3	33	17	47	14	17	42
38	33	6	22	39	27	33	15	45	6	6	45
67	31	4	8	45	10	45	19	48	19	3	43
36	30	5	20	50	13	37	7	50	0	0	42
50	30	4	15	50	10	40	10	63	20	10	45
64	30	4	11	47	17	37	17	60	17	0	45
45	29	4	15	38	7	55	21	45	7	10	43
63	26	3	13	50	4	46	23	69	19	0	45
18	25	3	6	64	20	16	28	52	4	24	42
32	25	3	10	48	8	44	24	48	28	8	52
27	24	4	12	58	4	38	4	33	13	25	40
23	23	4	9	22	35	43	9	39	22	26	43
33	22	2	9	45	5	50	14	45	14	0	44
60	22	3	10	36	9	55	0	41	5	27	47
28	21	3	9	71	14	14	29	67	14	0	43
11	19	3	9	32	11	58	0	26	21	42	38
26	17	7	17	35	18	47	6	35	0	0	38
34	17	3	8	47	18	35	18	35	24	24	43
53	17	4	17	41	12	47	12	53	18	0	47
31	14	3	7	29	14	57	7	43	14	0	40
6	12	4	16	83	0	17	17	42	8	8	43
65	12	2	8	25	8	67	8	67	8	0	49
12	11	3	10	9	27	64	0	82	9	0	50
13	6	2	5	17	50	33	0	83	50	0	51
3	5	3	5	40	20	40	0	40	20	60	40
30	2	5	10	50	0	50	0	50	50	0	50

*For example, shifting to another status level, being too sick to receive a transplant, being delisted, receiving a transplant at another OPO, or still waiting.

TABLE B-3 Mixed-Effects Competing Risk Survival Model for Patient Time in Status 1: Maximum Marginal Likelihood Estimates (MMLE), 1998–1999

	<i>MMLE</i>	<i>SE</i>	<i>p</i>
Transplant vs. Other			
Intercept	-1.829	0.276	0.001
Day	0.016	0.015	0.299
Age 0–5 vs. adult	-0.907	0.188	0.001
Age 6–17 vs. adult	-0.362	0.234	0.123
Gender (1 = male)	-0.098	0.198	0.621
Race (1 = black)	-0.275	0.268	0.306
Blood type (1 = B or O)	-0.076	0.196	0.697
OPO volume (M vs. L)	-0.054	0.319	0.866
OPO volume (S vs. L)	0.261	0.336	0.437
Random OPO effect <i>SD</i>	0.393	0.144	0.003
Mortality vs. Other			
Intercept	-3.685	0.482	0.001
Day	0.023	0.047	0.625
Age 0–5 vs. adult	-0.968	0.378	0.010
Age 6–17 vs. adult	-1.001	0.551	0.069
Gender (1 = male)	0.077	0.371	0.835
Race (1 = black)	0.162	0.448	0.717
Blood Type (1 = B or O)	0.003	0.433	0.995
OPO volume (M vs. L)	0.203	0.491	0.679
OPO volume (S vs. L)	-0.230	0.930	0.805
Random OPO effect <i>SD</i>	0.042	0.298	0.444

NOTE: L = >300 transplants; M = 150–300 transplants; S = <150 transplants; and SD = standard deviation.

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TABLE B-4 Transplants, Mortality, Waiting Time, and Demographics by OPO Patients During Status 2, Sorted by OPO Volume, 1995–1999

OPO	N	Avg. Wait	Max. Wait	% TX	% Died	% Other*	% Died Post-TX	% Male	% B or AB	% Black	Age
49	1,113	62	429	54	3	43	2	61	17	11	50
7	957	79	1,363	42	8	49	4	59	15	12	43
14	913	56	446	37	9	54	5	59	19	11	43
5	863	62	1,426	49	4	47	3	62	15	4	44
59	748	41	720	44	9	47	6	62	16	4	43
47	726	43	1,363	51	5	44	4	55	17	4	46
29	725	110	729	40	10	50	3	64	15	3	46
22	545	30	328	58	6	36	6	57	14	9	43
39	478	62	431	44	5	51	2	63	18	3	49
52	404	41	209	65	4	31	4	56	10	6	46
41	387	70	417	43	4	53	5	64	15	13	45
46	374	67	455	33	9	57	3	59	19	20	47
20	341	48	406	56	4	39	8	61	10	11	44
42	335	46	414	38	3	59	9	50	13	8	34
61	311	55	841	74	4	23	7	61	13	6	46
40	306	43	328	69	5	26	7	55	20	1	44
27	303	78	420	58	4	38	5	57	16	17	44
24	285	40	295	65	7	29	6	58	15	12	44
15	279	40	307	62	6	32	8	62	19	10	50
48	216	79	391	53	2	45	5	66	18	1	45
58	215	65	386	40	6	55	5	62	14	18	50
67	209	73	412	50	11	38	10	61	10	1	44
37	201	53	1,362	53	3	44	6	61	14	19	46
11	195	59	304	43	9	48	3	52	18	12	39

44	184	50	312	51	10	39	2	61	16	2	50
50	173	35	1,430	66	9	25	10	53	11	10	47
17	164	29	175	59	4	38	7	59	12	19	41
45	161	53	421	60	7	34	9	58	14	7	38
10	155	72	426	45	5	51	3	59	17	8	46
38	151	48	356	55	5	40	8	54	13	7	44
23	136	42	238	55	4	40	9	60	13	18	45
6	132	73	324	62	11	27	7	73	13	6	48
63	132	45	315	61	8	31	5	72	14	2	48
4	129	35	214	54	6	40	9	64	14	6	46
57	125	60	394	58	6	37	6	69	15	14	48
60	121	36	210	64	8	27	6	67	21	11	48
32	111	37	180	50	5	45	7	63	15	5	48
35	102	69	400	53	4	43	6	56	10	11	41
18	100	46	340	54	6	40	9	63	12	8	50
65	97	64	324	45	6	48	0	61	18	3	48
64	90	10	63	53	13	33	4	59	17	0	42
3	82	64	296	66	6	28	0	65	15	12	49
36	80	35	300	38	11	51	3	55	8	3	40
34	77	40	206	60	10	30	12	55	18	16	40
28	65	13	58	63	2	35	14	62	15	5	40
33	63	15	105	46	0	54	5	57	16	0	46
26	62	26	157	32	10	58	8	50	6	5	36
53	43	16	102	47	0	53	9	60	14	12	38
12	39	50	212	54	5	41	3	77	10	0	50
31	29	31	135	31	17	52	7	62	21	0	41
13	21	35	206	38	14	48	10	62	29	0	47
30	11	82	254	36	0	64	0	55	18	0	44

*For example, shifting to another status level, being too sick to receive a transplant, being delisted, receiving a transplant at another OPO, or still waiting.

TABLE B-5 Mixed-Effects Competing Risk Survival Model for Patient Time in Status 2B: Maximum Marginal Likelihood Estimates (MMLE), 1998–1999

	<i>MMLE</i>	<i>SE</i>	<i>p</i>
Transplant vs. Other			
Intercept	-2.077	0.129	0.001
Month	-0.092	0.016	0.001
Age 0–5 vs. adult	0.470	0.103	0.001
Age 6–17 vs. adult	0.135	0.243	0.577
Gender (1 = male)	0.126	0.087	0.150
Race (1 = black)	0.134	0.222	0.546
Blood type (1 = B or O)	-0.577	0.062	0.001
OPO volume (M vs. L)	0.590	0.157	0.001
OPO volume (S vs. L)	0.560	0.187	0.003
Random OPO effect <i>SD</i>	0.689	0.064	0.001
Mortality vs. Other			
Intercept	-3.313	0.227	0.001
Month	-0.213	0.039	0.001
Age 0–5 vs. adult	-0.195	0.381	0.608
Age 6–17 vs. adult	-0.516	0.641	0.421
Gender (1 = male)	0.014	0.191	0.944
Race (1 = black)	-0.082	0.359	0.820
Blood type (1 = B or O)	-0.005	0.164	0.974
OPO volume (M vs. L)	0.202	0.126	0.110
OPO volume (S vs. L)	0.355	0.151	0.019
Random OPO effect <i>SD</i>	0.116	0.049	0.009

NOTE: L = >300 transplants; M = 150–300 transplants; S = <150 transplants; and SD = standard deviation.

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TABLE B-6 Transplants, Mortality, Waiting Time, and Demographics by OPO Patients During Status 3 or 4, Sorted by OPO Volume, 1995–1999

OPO	N	Avg. Wait	Max. Wait	% TX	% Died	% Other*	% Died Post-TX	% Male	% B or AB	% Black	Age
5	2,437	464	1,539	6	8	86	0	59	16	3	46
14	1,923	392	1,533	10	7	83	1	56	19	10	45
49	1,790	305	1,510	9	4	87	0	60	19	9	49
47	1,361	204	1,506	23	4	73	1	57	16	3	48
7	1,334	318	1,452	10	4	86	1	59	17	10	45
29	1,269	386	1,440	4	9	87	0	61	16	2	46
59	1,152	352	1,512	15	6	79	1	63	17	4	44
22	983	140	1,011	34	5	60	4	58	14	6	46
39	798	262	1,363	13	4	82	0	61	19	3	50
46	728	442	1,525	3	6	91	1	55	18	18	46
52	714	229	1,484	31	7	63	3	54	13	6	48
40	711	180	955	33	3	64	2	56	18	2	47
41	702	303	1,015	19	4	77	2	60	18	14	46
61	636	152	847	26	5	69	2	59	12	7	47
24	582	302	1,148	16	5	79	1	57	14	12	44
20	558	231	1,105	26	4	70	3	60	12	8	46
42	537	233	1,000	21	7	72	4	53	13	5	38
48	489	318	1,213	22	2	75	1	59	16	4	47
67	474	232	923	24	6	69	4	61	12	3	47
15	455	275	1,126	22	5	73	2	60	18	9	48
50	448	244	1,064	35	6	58	3	55	14	8	46
27	408	151	813	39	4	57	3	56	13	18	44
63	398	322	1,045	34	5	60	4	70	11	2	49
38	393	302	1,125	18	4	79	2	55	13	5	46
44	384	354	1,504	8	7	85	0	60	16	2	49

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64	360	198	1,471	58	2	39	3	62	13	2	45
11	358	161	600	39	7	54	3	53	19	8	41
58	317	224	1,014	24	3	73	2	62	19	14	49
17	312	127	546	56	1	43	7	54	13	13	45
37	298	202	1,230	26	5	68	2	60	15	16	47
57	290	270	1,490	38	3	59	2	61	14	10	47
4	258	154	752	39	4	57	7	64	11	4	48
10	231	284	1,344	26	6	68	1	58	14	9	47
35	219	164	892	46	1	53	2	49	10	5	45
45	208	272	1,511	27	1	72	2	58	11	12	36
32	206	255	1,335	33	5	62	3	62	14	5	48
60	197	129	1,021	56	1	43	7	59	18	7	50
23	194	172	629	28	5	66	4	60	16	11	47
34	191	156	1,431	42	7	51	9	61	14	12	45
6	190	145	623	34	6	59	3	69	13	5	50
36	187	194	999	59	3	39	3	54	13	1	43
26	177	283	1,293	32	4	64	3	50	11	2	44
33	165	124	502	64	1	36	10	61	16	1	49
18	159	239	934	31	1	68	4	64	13	4	49
53	127	91	449	70	2	28	7	64	13	6	46
28	126	97	519	63	2	36	5	57	15	7	43
65	103	149	701	20	3	77	1	56	17	3	48
3	101	263	953	19	0	81	1	63	11	4	48
12	96	96	468	47	2	51	0	69	15	0	51
31	89	216	769	45	6	49	3	49	9	0	44
13	48	133	818	54	2	44	8	65	21	2	50
30	36	261	1,109	44	8	47	0	50	22	0	52

*For example, shifting to another status level, being too sick to receive a transplant, being delisted, receiving a transplant at another OPO, or still waiting.

TABLE B-7 Mixed-Effects Competing Risk Survival Model for Patient Time in Status 3: Maximum Marginal Likelihood Estimates (MMLE), 1998–1999

	<i>MMLE</i>	<i>SE</i>	<i>p</i>
Transplant vs. Other			
Intercept	−3.593	0.210	0.001
Month	−0.220	0.030	0.001
Age 0–5 vs. adult	1.156	0.154	0.001
Age 6–17 vs. adult	0.844	0.268	0.002
Gender (1 = male)	0.054	0.186	0.769
Race (1 = black)	0.158	0.304	0.603
Blood type (1 = B or O)	−0.477	0.098	0.001
OPO volume (M vs. L)	1.179	0.149	0.001
OPO volume (S vs. L)	0.757	0.228	0.001
Random OPO effect <i>SD</i>	1.335	0.162	0.001
Mortality vs. Other			
Intercept	−3.654	0.172	0.001
Month	−0.216	0.041	0.001
Age 0–5 vs. Adult	−2.119	2.099	0.313
Age 6–17 vs. Adult	−1.193	2.000	0.551
Gender (1 = male)	−0.063	0.268	0.814
Race (1 = black)	0.027	0.544	0.960
Blood type (1 = B or O)	−0.017	0.231	0.943
OPO volume (M vs. L)	−0.526	0.300	0.079
OPO volume (S vs. L)	−0.658	0.358	0.066
Random OPO effect <i>SD</i>	0.137	0.157	0.191

NOTE: L = >300 transplants; M = 150–300 transplants; S = <150 transplants; and SD = standard deviation.

TABLE B-8 Status of Transplanted Patients by OPO, Percentages (1995–1999)

OPO	N	Status					
		1	2	3	4	7	9
49	969	20	59	15	0	0	6
47	943	24	37	29	1	0	9
14	809	32	38	22	0	0	8
22	786	15	37	40	0	0	7
59	769	34	40	20	0	0	6
7	747	26	49	16	0	0	10
5	735	21	54	16	1	0	8
52	532	8	47	40	0	1	4
40	485	8	42	48	0	0	2
39	444	26	45	22	1	0	6
61	444	9	49	34	0	0	8
29	421	15	68	10	0	2	5
20	375	9	49	37	0	0	5
27	370	6	44	43	0	3	4
41	353	12	44	37	0	2	5
42	342	26	35	33	0	3	4
24	327	14	53	27	0	0	7
15	311	12	53	32	0	0	3
17	306	9	27	55	0	1	8
50	299	8	37	49	1	0	6
64	281	6	17	68	6	2	1
48	258	12	44	42	0	0	2
11	247	10	31	55	0	0	4
67	240	8	40	46	0	0	6
63	233	5	33	57	0	0	5
46	226	31	51	9	0	0	8
57	213	14	31	48	0	0	8
37	211	11	49	37	0	0	2
60	200	4	32	53	0	0	12
35	194	15	26	51	1	3	6
4	193	11	33	50	1	0	5
45	191	19	43	28	0	0	9
58	184	10	42	36	1	0	11
38	181	9	45	37	0	4	4
36	162	13	15	65	0	0	7
6	160	8	47	34	4	0	6
10	157	17	38	36	1	0	9
44	152	16	59	20	0	0	5

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TABLE B-9 Initial Listing Status by OPO, Percentages (1995–1999)

OPO	N	Status					
		1	2	3	4	7	9
5	2,647	5	5	54	35	1	0
49	2,434	9	17	64	6	5	0
14	2,322	14	10	64	12	0	0
7	1,832	13	18	56	12	1	0
47	1,775	14	11	52	22	0	0
59	1,572	16	16	56	11	1	0
29	1,559	6	16	71	8	0	0
22	1,244	13	14	71	2	0	0
39	1,042	11	16	53	19	1	0
52	975	7	21	64	7	2	0
46	887	11	11	52	26	0	0
41	872	8	14	77	1	0	0
40	816	5	9	53	33	1	0
61	749	7	7	54	25	8	0
20	700	6	16	70	6	0	0
24	697	7	11	80	1	1	0
42	676	13	13	62	12	0	0
15	588	7	17	74	1	1	0
27	582	5	28	64	3	0	0
48	557	8	6	85	1	0	0
67	553	5	9	59	25	2	0
50	523	4	13	72	10	0	0
11	452	6	19	72	2	1	0
63	451	3	9	86	1	0	0
38	448	6	7	78	9	1	0
17	444	13	19	67	0	1	0
58	443	9	23	61	6	1	0
44	437	6	7	60	26	0	0
37	429	10	21	59	4	6	0
64	422	5	11	73	10	1	0
57	377	10	15	74	1	0	0
10	327	10	21	59	8	1	0
4	321	10	11	71	4	4	0
45	313	13	23	63	0	1	0
35	304	12	17	62	7	2	0
60	270	9	24	67	0	0	0
23	269	9	23	67	1	1	0
6	267	4	26	57	12	1	0
32	263	6	18	65	10	1	0
26	242	10	16	71	0	3	0

TABLE B-10 Mixed-Effects Competing Risk Survival Model for Patient Time in Status 1 as a Function of OPO Size: Maximum Marginal Likelihood Estimates (MMLE), 1998-1999.

	<i>MMLE</i>	<i>SE</i>	<i>p</i>
Transplant vs. Other			
Intercept	-2.071	0.561	0.001
Day	-0.003	0.012	0.82
Size (linear)	0.018	0.243	0.943
Size (quadratic)	-0.005	0.023	0.844
Random OPO effect <i>SD</i>	0.404	0.142	0.002
Mortality vs. Other			
Intercept	-4.539	1.349	0.001
Day	0.008	0.027	0.777
Size (linear)	0.234	0.473	0.622
Size (quadratic)	-0.019	0.039	0.627
Random OPO effect <i>SD</i>	0.052	0.183	0.388

TABLE B-11 Mixed-Effects Competing Risk Survival Model for Patient Time in Status 2B as a Function of OPO Size: Maximum Marginal Likelihood Estimates (MMLE), 1998-1999.

	<i>MMLE</i>	<i>SE</i>	<i>p</i>
Transplant vs. Other			
Intercept	-2.527	0.432	0.007
Month	-0.105	0.01	0.001
Size (linear)	0.505	0.154	0.001
Size (quadratic)	-0.063	0.013	0.001
Random OPO effect <i>SD</i>	0.596	0.05	0.001
Mortality vs. Other			
Intercept	-3.886	0.361	0.001
Month	-0.209	0.027	0.001
Size (linear)	0.328	0.127	0.009
Size (quadratic)	-0.033	0.011	0.004
Random OPO effect <i>SD</i>	0.076	0.047	0.054

TABLE B-12 Mixed-Effects Competing Risk Survival Model for Patient Time in Status 3 as a Function of OPO Size: Maximum Marginal Likelihood Estimates (MMLE), 1998-1999.

	<i>MMLE</i>	<i>SE</i>	<i>p</i>
Transplant vs. Other			
Intercept	-4.837	0.604	0.001
Month	-0.233	0.023	0.001
Size (linear)	0.841	0.243	0.001
Size (quadratic)	-0.079	0.021	0.001
Random OPO effect <i>SD</i>	1.196	0.105	0.001
Mortality vs. Other			
Intercept	-4.904	0.694	0.001
Month	-0.213	0.029	0.001
Size (linear)	0.28	0.226	0.217
Size (quadratic)	-0.018	0.017	0.313
Random OPO effect <i>SD</i>	0.067	0.15	0.327

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TABLE B-13 Ratios of Transplants to Listings by OPO Sorted by Number of Transplants ; Ratios Expressed as a Percentage, 1995-1999.

OPO	Total No. of Transplants	Total No. of Listings	Overall Percentage	Percentages Within Status Level			Population Served (millions)
				Status 1	Status 2	Status 3/4	
49	969	2,434	39	7	23	5	9
47	943	1,775	53	12	19	15	7
14	809	2,322	34	11	13	7	9
22	786	1,244	63	9	23	25	5
59	769	1,572	48	16	19	9	6
7	747	1,832	40	10	19	6	9
5	735	2,647	27	5	14	4	9
52	532	975	54	4	25	21	7
40	485	816	59	4	24	28	6
39	444	1,042	42	11	19	9	9
61	444	749	59	5	29	20	3
29	421	1,559	27	4	18	2	9
20	375	700	53	4	26	19	4
27	370	582	63	3	27	27	5
41	353	872	40	4	17	14	9
42	342	676	50	13	17	16	2
24	327	697	46	6	24	12	4
15	311	588	52	6	28	16	4
17	306	444	68	6	18	37	7
50	299	523	57	4	21	28	4
64	281	422	66	3	11	49	3
48	258	557	46	5	20	19	4
11	247	452	54	5	16	30	7

67	240	553	43	3	17	19	7
63	233	451	51	2	17	29	4
46	226	887	25	7	12	2	3
57	213	377	56	7	17	27	3
37	211	429	49	5	24	18	4
60	200	270	74	2	23	39	6
35	194	304	63	9	16	33	3
4	193	321	60	6	19	30	4
45	191	313	61	11	26	17	2
58	184	443	41	4	17	15	4
38	181	448	40	3	18	14	5
36	162	242	66	8	10	43	3
6	160	267	59	4	28	22	4
10	157	327	48	8	18	17	2
44	152	437	34	5	20	6	3
33	148	206	71	6	14	48	3
23	143	269	53	3	25	20	2
34	143	238	60	6	18	33	3
28	140	165	84	11	23	46	5
32	139	263	52	4	21	25	2
53	125	155	80	7	12	57	2
18	121	211	57	8	25	22	3
26	87	212	41	4	9	26	4
65	80	162	49	8	22	12	3
3	76	145	52	2	35	13	2
12	69	124	55	2	16	35	2
31	53	117	45	3	7	31	2
13	37	61	60	4	9	41	2
30	21	39	53	2	7	40	2

TABLE B-14 Number of Transplants (overall and by status) and Number of Listings per Million People Served
Sorted by Number of Transplants, 1995-1999.

OPO	Total No. of Transplants	Total No. of Listings	Pop. Served (millions)	Total No. of:		No. of Transplants per Million People Served		
				Transplants per Million	Listings per Million	Status 1 Transplants	Status 2 Transplants	Status 3/4 Transplants
49	969	2,434	9	107	270	21	63	16
47	943	1,775	7	134	253	32	49	40
14	809	2,322	9	89	258	28	34	19
22	786	1,244	5	157	248	23	58	62
59	769	1,572	6	128	262	43	51	25
7	747	1,832	9	83	203	21	40	13
5	735	2,647	9	81	294	17	44	13
52	532	975	7	76	139	6	35	30
40	485	816	6	80	136	6	33	38
39	444	1,042	9	49	115	12	22	11
61	444	749	3	148	249	13	72	50
29	421	1,559	9	46	173	7	31	4
20	375	700	4	93	175	8	45	34
27	370	582	5	74	116	4	32	31
41	353	872	9	39	96	4	17	14
42	342	676	2	171	338	44	59	56
24	327	697	4	81	174	11	43	22
15	311	588	4	77	147	9	41	24
17	306	444	7	43	63	3	11	24
50	299	523	4	74	130	5	27	37
64	281	422	3	93	140	5	15	69
48	258	557	4	64	139	7	28	27

11	247	452	7	35	64	3	10	19
67	240	553	7	34	79	2	13	15
63	233	451	4	58	112	2	19	33
46	226	887	3	75	295	23	38	6
57	213	377	3	71	125	9	22	34
37	211	429	4	52	107	5	25	19
60	200	270	6	33	45	1	10	17
35	194	304	3	64	101	9	16	33
4	193	321	4	48	80	5	15	24
45	191	313	2	95	156	18	41	26
58	184	443	4	46	110	4	19	17
38	181	448	5	36	89	3	16	13
36	162	242	3	54	80	7	8	35
6	160	267	4	40	66	3	18	15
10	157	327	2	78	163	13	29	29
44	152	437	3	50	145	8	29	10
33	148	206	3	49	68	4	9	33
23	143	269	2	71	134	5	34	27
34	143	238	3	47	79	4	14	26
28	140	165	5	28	33	3	7	15
32	139	263	2	69	131	6	27	34
53	125	155	2	62	77	5	10	44
18	121	211	3	40	70	5	17	16
26	87	212	4	21	53	2	5	14
65	80	162	3	26	54	4	12	6
3	76	145	2	38	72	1	25	9
12	69	124	2	34	62	1	10	22
31	53	117	2	26	58	2	4	18
13	37	61	2	18	30	1	2	12
30	21	39	2	10	19	0	1	7
