

**Table 13.3**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Age This Year		Year									
		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Total</b>	Patients	347	328	299	290	260	260	224	207	182	157
	Deaths	55	46	42	42	20	29	28	21	22	15
	Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8
<b>&lt;1 Year</b>	Patients	1	1	3	1	-	2	2	1	-	-
	Deaths	-	-	1	1	-	1	1	-	-	-
	Rate	*	*	*	*	-	*	*	*	-	-
<b>1-5 Years</b>	Patients	16	18	18	12	8	7	4	6	5	2
	Deaths	3	6	3	3	-	-	-	1	2	-
	Rate	429.1	765.9	231.9	335.1	*	*	*	*	*	*
<b>6-11 Years</b>	Patients	14	10	9	12	14	11	11	9	11	8
	Deaths	1	-	1	2	-	1	-	-	1	1
	Rate	134.5	-	*	223.0	-	113.0	-	*	135.0	*
<b>12-17 Years</b>	Patients	34	28	33	21	18	16	18	18	10	13
	Deaths	9	3	10	4	3	1	3	3	-	1
	Rate	413.0	169.9	544.4	362.4	242.3	83.4	246.3	258.9	-	140.5
<b>18-34 Years</b>	Patients	96	92	72	79	78	75	62	54	59	42
	Deaths	14	11	9	14	7	8	7	9	9	4
	Rate	216.6	186.0	160.2	252.2	131.5	151.1	174.7	246.9	249.5	163.1
<b>35-49 Years</b>	Patients	126	129	120	109	90	91	78	78	56	57
	Deaths	25	16	13	14	5	13	7	4	5	8
	Rate	292.8	192.5	157.6	183.0	75.4	208.4	120.0	75.8	138.4	221.2
<b>50-64 Years</b>	Patients	60	50	43	55	51	57	49	40	41	33
	Deaths	3	10	5	4	5	5	10	4	5	1
	Rate	74.5	304.9	158.0	105.2	138.9	133.0	306.8	147.8	212.6	50.7
<b>65+ Years</b>	Patients	-	-	1	1	1	1	-	1	-	2
	Deaths	-	-	-	-	-	-	-	-	-	-
	Rate	-	-	*	*	*	*	-	*	-	*

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Ethnicity/Race		Year									
		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Total</b>	Patients	347	328	299	290	260	260	224	207	182	157
	Deaths	55	46	42	42	20	29	28	21	22	15
	Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8
<b>White</b>	Patients	277	252	225	214	191	195	159	150	128	102
	Deaths	39	36	29	29	17	24	18	16	15	10
	Rate	215.3	230.4	185.5	195.8	127.7	180.1	161.3	162.4	183.8	161.8
<b>African American</b>	Patients	35	37	40	38	32	29	32	23	23	22
	Deaths	7	6	8	7	2	1	7	2	5	4
	Rate	303.3	249.3	327.2	265.5	85.7	48.3	350.5	127.4	395.5	295.5
<b>Other/Multi-race</b>	Patients	1	1	2	6	1	2	1	3	2	3
	Deaths	1	-	-	1	-	-	-	1	-	-
	Rate	*	*	*	*	*	*	*	*	*	*
<b>Asian</b>	Patients	4	7	6	6	5	8	8	9	5	8
	Deaths	1	1	2	1	-	1	-	-	-	-
	Rate	*	*	*	*	*	*	*	*	*	*
<b>Hispanic/Latino</b>	Patients	30	31	26	26	31	26	24	22	24	22
	Deaths	7	3	3	4	1	3	3	2	2	1
	Rate	360.3	143.8	153.1	189.2	45.3	168.6	189.0	125.1	142.9	61.4

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Gender		Year									
		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Total</b>	Patients	347	328	299	290	260	260	224	207	182	157
	Deaths	55	46	42	42	20	29	28	21	22	15
	Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8
<b>Female</b>	Patients	204	190	169	165	144	149	130	115	111	90
	Deaths	27	23	22	24	12	18	17	10	17	12
	Rate	196.1	189.9	188.1	216.4	114.0	175.8	190.9	128.8	265.2	219.1
<b>Male</b>	Patients	143	138	130	125	116	111	94	92	71	67
	Deaths	28	23	20	18	8	11	11	11	5	3
	Rate	314.5	272.2	223.7	201.9	102.3	145.0	168.6	185.8	103.0	71.3

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Blood Type		Year									
		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Total</b>	Patients	347	328	299	290	260	260	224	207	182	157
	Deaths	55	46	42	42	20	29	28	21	22	15
	Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8
<b>A</b>	Patients	122	113	106	104	90	85	79	79	74	63
	Deaths	20	19	10	12	8	10	7	7	5	7
	Rate	256.4	285.5	133.8	165.9	129.1	173.4	132.9	135.9	111.2	179.7
<b>AB</b>	Patients	16	15	14	11	10	7	4	8	2	3
	Deaths	2	1	5	2	2	-	-	2	-	-
	Rate	211.6	94.4	759.8	371.9	418.3	*	*	*	*	*
<b>B</b>	Patients	32	28	25	31	28	31	20	17	16	15
	Deaths	7	4	4	7	1	4	3	-	5	2
	Rate	371.1	228.5	302.0	389.9	47.9	211.8	190.8	-	662.6	303.0
<b>O</b>	Patients	177	172	154	144	132	137	121	103	90	76
	Deaths	26	22	23	21	9	15	18	12	12	6
	Rate	216.0	198.2	205.7	201.2	94.0	153.5	214.9	169.1	202.9	120.1

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Primary Heart Diagnosis	Year										
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
<b>Total</b>											
Patients	347	328	299	290	260	260	224	207	182	157	
Deaths	55	46	42	42	20	29	28	21	22	15	
Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8	
<b>Coronary Artery Disease</b>											
Patients	3	3	4	5	4	5	9	9	6	6	
Deaths	1	-	1	-	1	-	3	1	1	-	
Rate	*	*	*	*	*	*	*	*	*	*	
<b>Cardiomyopathy</b>											
Patients	18	24	20	22	19	27	28	27	31	27	
Deaths	3	5	5	5	2	3	6	4	8	4	
Rate	290.4	367.7	365.2	367.9	153.0	192.4	345.9	270.0	526.8	280.4	
<b>Congenital Heart Disease</b>											
Patients	34	44	56	56	53	64	75	76	64	62	
Deaths	3	4	6	9	3	6	8	9	5	5	
Rate	142.5	138.1	168.4	216.0	73.2	123.6	150.7	179.2	107.3	115.7	
<b>Retransplant/Graft Failure</b>											
Patients	4	4	1	2	3	2	1	1	1	1	
Deaths	-	1	-	-	-	-	-	-	-	1	
Rate	*	*	*	*	*	*	*	*	*	*	
<b>Valvular Heart Disease</b>											
Patients	1	1	2	4	3	3	2	4	4	4	
Deaths	-	-	-	1	-	-	-	-	-	1	
Rate	*	*	*	*	*	*	*	*	*	*	
<b>Other</b>											
Patients	27	31	23	21	24	27	27	25	26	17	
Deaths	2	6	4	2	2	4	5	4	6	2	
Rate	116.9	338.0	263.1	144.1	142.9	259.5	327.7	327.4	719.8	259.9	
<b>Not Collected</b>											
Patients	17	17	12	9	9	7	5	4	4	3	
Deaths	-	-	-	-	1	1	1	-	1	-	
Rate	-	-	-	*	*	*	*	*	*	*	
<b>Unknown</b>											
Patients	243	204	181	171	145	125	77	61	46	37	
Deaths	46	30	26	25	11	15	5	3	1	2	
Rate	294.5	242.7	206.8	218.3	109.8	174.4	89.8	63.4	29.8	85.6	

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of

December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Primary Lung Diagnosis	Year										
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
<b>Total</b>											
Patients	347	328	299	290	260	260	224	207	182	157	
Deaths	55	46	42	42	20	29	28	21	22	15	
Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8	
<b>Emphysema/COPD</b>											
Patients	8	13	9	6	5	4	4	5	5	4	
Deaths	1	4	1	1	1	1	-	-	1	-	
Rate	*	546.6	*	*	*	*	*	*	*	*	
<b>Cystic Fibrosis</b>											
Patients	8	6	4	5	5	5	6	5	3	1	
Deaths	3	1	-	2	-	1	1	-	1	-	
Rate	*	*	*	*	*	*	*	*	*	*	
<b>Idiopathic Pulmonary Fibrosis</b>											
Patients	6	3	2	4	6	7	6	5	4	4	
Deaths	2	-	-	1	-	1	2	1	-	1	
Rate	*	*	*	*	*	*	*	*	*	*	
<b>Idiopathic Pulmonary Arterial Hypertension</b>											
Patients	59	66	69	65	58	49	41	41	30	24	
Deaths	10	11	15	8	5	4	2	4	6	2	
Rate	290.7	301.7	359.2	190.5	133.8	110.8	67.9	176.2	443.2	170.6	
<b>Retransplant/Graft Failure</b>											
Patients	12	6	5	3	2	5	2	2	2	1	
Deaths	2	1	1	1	-	2	-	1	-	1	
Rate	287.2	*	*	*	*	*	*	*	*	*	
<b>Congenital Disease</b>											
Patients	121	113	96	101	94	90	74	63	58	55	
Deaths	10	11	6	7	4	8	9	1	3	4	
Rate	101.0	130.5	75.0	89.0	52.7	118.2	160.3	20.0	64.8	105.3	
<b>Other</b>											
Patients	45	34	27	22	26	34	53	59	56	52	
Deaths	10	4	4	3	1	2	9	10	11	6	
Rate	349.1	196.3	236.1	179.3	60.8	91.7	279.4	290.2	349.5	206.7	
<b>Not Collected</b>											
Patients	5	5	5	4	4	4	3	1	1	-	
Deaths	-	-	-	1	-	-	1	-	-	-	
Rate	*	*	*	*	*	*	*	*	*	-	

(Continued)

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Primary Lung Diagnosis		Year									
		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Unknown</b>	Patients	83	82	82	80	60	62	35	26	23	16
	Deaths	17	14	15	18	9	10	4	4	-	1
	Rate	432.3	315.8	299.0	387.1	237.2	275.7	176.1	223.6	-	78.4

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Waitlist Center State	Year										
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
<b>Total</b>											
Patients	347	328	299	290	260	260	224	207	182	157	
Deaths	55	46	42	42	20	29	28	21	22	15	
Rate	242.6	223.7	203.5	210.0	109.1	162.7	181.5	153.5	195.3	154.8	
<b>Alabama</b>											
Patients	17	17	10	8	9	10	8	13	13	8	
Deaths	1	1	2	1	1	1	1	-	-	1	
Rate	78.0	100.1	253.6	*	*	141.7	*	-	-	*	
<b>Arizona</b>											
Patients	12	13	8	3	4	3	-	1	2	3	
Deaths	2	-	1	-	-	1	-	-	1	1	
Rate	181.7	-	*	*	*	*	-	*	*	*	
<b>California</b>											
Patients	72	53	36	31	37	34	34	35	36	32	
Deaths	15	6	6	1	3	4	4	2	2	3	
Rate	330.5	162.3	226.4	42.5	124.1	194.5	169.6	86.9	101.6	197.3	
<b>Colorado</b>											
Patients	4	3	3	4	4	6	6	4	3	2	
Deaths	-	-	-	-	-	-	-	1	1	-	
Rate	*	*	*	*	*	*	*	*	*	*	
<b>Connecticut</b>											
Patients	4	4	4	2	2	2	1	1	1	-	
Deaths	-	-	-	-	-	-	-	-	1	-	
Rate	*	*	*	*	*	*	*	*	*	-	
<b>Florida</b>											
Patients	13	17	19	26	23	31	23	9	8	7	
Deaths	4	4	5	6	3	2	3	2	-	1	
Rate	584.7	384.9	423.6	435.7	196.5	106.2	268.9	*	*	*	
<b>Georgia</b>											
Patients	1	4	3	3	3	2	1	1	1	-	
Deaths	-	-	1	1	-	-	-	-	-	-	
Rate	*	*	*	*	*	*	*	*	*	-	
<b>Illinois</b>											
Patients	1	1	4	10	9	7	5	3	4	5	
Deaths	-	-	-	2	1	-	1	-	1	-	
Rate	*	*	*	334.1	*	*	*	*	*	*	

(Continued)

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of

December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Waitlist Center State	Year										
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
<b>Kentucky</b>	Patients	4	1	1	1	1	1	1	1	1	-
	Deaths	1	-	-	-	-	-	-	-	1	-
	Rate	*	*	*	*	*	*	*	*	*	-
<b>Massachusetts</b>	Patients	1	1	1	-	-	-	-	-	-	-
	Deaths	-	-	-	-	-	-	-	-	-	-
	Rate	*	*	*	-	-	-	-	-	-	-
<b>Maryland</b>	Patients	9	13	11	11	12	8	11	7	4	7
	Deaths	1	1	2	-	3	1	1	-	-	-
	Rate	*	132.2	209.8	-	335.9	*	159.0	*	*	*
<b>Michigan</b>	Patients	2	3	1	-	1	-	-	-	-	-
	Deaths	-	1	1	-	1	-	-	-	-	-
	Rate	*	*	*	-	*	-	-	-	-	-
<b>Minnesota</b>	Patients	19	21	23	31	26	26	17	15	9	9
	Deaths	3	4	1	3	1	3	1	-	1	-
	Rate	350.7	296.4	51.3	130.5	54.9	175.7	71.0	-	*	*
<b>Missouri</b>	Patients	28	32	33	30	24	23	24	28	24	20
	Deaths	4	3	4	6	4	2	2	4	1	-
	Rate	199.9	143.6	159.9	256.9	207.6	108.0	104.0	191.6	47.3	-
<b>North Carolina</b>	Patients	31	34	34	33	24	21	17	11	7	4
	Deaths	4	7	3	5	-	3	2	2	-	-
	Rate	179.7	357.6	143.7	226.1	-	186.3	155.5	223.5	*	*
<b>New York</b>	Patients	25	21	9	6	6	6	6	8	6	4
	Deaths	7	1	1	1	-	-	1	-	-	-
	Rate	424.0	64.2	*	*	*	*	*	*	*	*
<b>Ohio</b>	Patients	4	4	4	5	4	2	5	9	9	1
	Deaths	1	-	-	-	-	-	2	2	3	-
	Rate	*	*	*	*	*	*	*	*	*	*

(Continued)

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of

December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.

**Table 13.3 (Continued)**  
**Reported Deaths and Annual Death Rates Per 1,000 Patient-Years at Risk, 1999 to 2008**  
**Heart-Lung Waiting List**

Waitlist Center State	Year									
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
<b>Oregon</b>										
Patients	4	1	-	-	-	-	-	-	-	-
Deaths	2	1	-	-	-	-	-	-	-	-
Rate	*	*	-	-	-	-	-	-	-	-
<b>Pennsylvania</b>										
Patients	66	60	67	63	54	59	44	44	36	36
Deaths	8	12	9	12	2	9	5	6	8	5
Rate	211.0	318.4	191.2	270.7	52.5	233.1	141.7	212.4	326.9	301.6
<b>Tennessee</b>										
Patients	10	7	6	2	1	2	5	2	1	1
Deaths	2	-	1	-	-	-	1	-	-	-
Rate	355.3	*	*	*	*	*	*	*	*	*
<b>Texas</b>										
Patients	9	9	8	10	10	10	9	10	12	13
Deaths	-	1	1	2	1	2	2	1	2	3
Rate	*	*	*	348.0	156.5	300.6	*	170.4	250.3	324.3
<b>Utah</b>										
Patients	1	-	-	-	-	-	-	-	-	-
Deaths	-	-	-	-	-	-	-	-	-	-
Rate	*	-	-	-	-	-	-	-	-	-
<b>Virginia</b>										
Patients	4	5	3	3	2	2	2	1	-	-
Deaths	-	2	1	-	-	-	-	-	-	-
Rate	*	*	*	*	*	*	*	*	-	-
<b>Washington</b>										
Patients	1	-	1	-	-	-	1	2	4	4
Deaths	-	-	-	-	-	-	-	1	-	1
Rate	*	-	*	-	-	-	*	*	*	*
<b>Wisconsin</b>										
Patients	5	4	10	8	4	5	4	2	1	1
Deaths	-	2	3	2	-	1	2	-	-	-
Rate	*	*	1,322.6	*	*	*	*	*	*	*

Source: OPTN/SRTR Data as of May 4, 2009.

Notes:

Patients alive on the waiting list at any time during the year are counted. Period at risk begins the later of January 1 or waiting list registration and ends on the earlier of December 31, date of death, or date of removal for other reasons. Please see Technical Notes for further details about death rate computation.

Collection of both a heart and a lung diagnosis began in 2005. Please see Technical Notes for further details.

(-) = None in category.

(\*) = For cohorts with fewer than 10 patients, rates are imprecise and are not reported.