

CHAPTER 12

Peritoneal Dialysis

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Table 12.1.1: Peritoneal dialysis regimes, 2002-2011

PD regime	2002		2003		2004		2005		2006	
	n	%	n	%	n	%	n	%	n	%
Standard CAPD	861	97	1192	96.8	1266	96.1	1303	93.2	1397	90
DAPD	24	2.7	34	2.8	39	3	45	3.2	67	4.3
Automated PD/ CCPD	3	0.3	5	0.4	12	0.9	50	3.6	88	5.7
Total	888	100	1231	100	1317	100	1398	100	1552	100

PD regime	2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%
Standard CAPD	1547	85.7	1717	82.4	1847	83.5	1973	83.6	2079	79.7
DAPD	115	6.4	121	5.8	119	5.4	91	3.9	117	4.5
Automated PD/ CCPD	144	8	245	11.8	246	11.1	296	12.5	414	15.9
Total	1806	100	2083	100	2212	100	2360	100	2610	100

Table 12.1.2: CAPD connectology, 2002-2011

CAPD connectology	2002		2003		2004		2005		2006	
	n	%	n	%	n	%	n	%	n	%
Baxter disconnect	726	98.5	1048	87	1147	88.8	1286	92.1	1425	92
Fresenius disconnect	11	1.5	154	12.8	145	11.2	111	7.9	119	7.7
Others	0	0	3	0.2	0	0	0	0	5	0.3
Total	737	100	1205	100	1292	100	1397	100	1549	100

CAPD connectology	2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%
Baxter disconnect	1675	93.5	1955	93.9	2013	92.1	2126	90.7	2230	85.8
Fresenius disconnect	116	6.5	124	6	173	7.9	218	9.3	367	14.1
Others	0	0	4	0.2	0	0	1	0	1	0
Total	1791	100	2083	100	2186	100	2345	100	2598	100

Table 12.1.3a: CAPD Number of Exchanges per day, 2002-2011

Number of exchanges/ day	2002		2003		2004		2005		2006	
	n	%	n	%	n	%	n	%	n	%
2	0	0	3	0.3	6	0.5	3	0.2	3	0.2
3	10	1.2	14	1.2	12	1	20	1.5	52	3.7
4	813	95.9	1104	95.9	1185	94.8	1234	95.1	1296	93.2
5	25	2.9	30	2.6	47	3.8	40	3.1	39	2.8
Total	848	100	1151	100	1250	100	1297	100	1390	100

Number of exchanges/ day	2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%
2	2	0.1	3	0.2	2	0.1	7	0.4	1	0
3	29	1.9	47	2.8	79	4.4	125	6.4	113	5.5
4	1456	95.8	1611	94.4	1676	92.3	1778	91.1	1874	91.3
5	33	2.2	46	2.7	59	3.2	42	2.2	65	3.2
Total	1520	100	1707	100	1816	100	1952	100	2053	100

Table 12.1.3b: APD dwell volumes per day, 2002-2011

Dwell volumes/ day	2002		2003		2004		2005		2006	
	n	%	n	%	n	%	n	%	n	%
8	0	0	0	0	0	0	9	47.4	6	12.5
10	0	0	1	100	4	100	7	36.8	32	66.7
12	1	100	0	0	0	0	3	15.8	10	20.8
14	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0
Total	1	100	1	100	4	100	19	100	48	100

Dwell volumes/ day	2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%
8	11	10.5	4	2.2	7	5.1	11	14.5	9	3.7
10	83	79	164	92.1	119	87.5	56	73.7	222	90.6
12	10	9.5	10	5.6	8	5.9	8	10.5	11	4.5
14	0	0	0	0	0	0	0	0	0	0
16	1	1	0	0	2	1.5	1	1.3	3	1.2
Total	105	100	178	100	136	100	76	100	245	100

Table 12.2.1: Distribution of delivered Kt/V, PD patients 2004-2011

Year	Number of Patients	Mean	SD	Median	LQ	UQ	% patients \geq 1.7 per week
2004	1038	2.1	0.5	2.1	1.8	2.4	85
2005	1092	2.1	0.5	2.1	1.8	2.4	83
2006	1266	2.1	0.5	2.1	1.8	2.4	84
2007	1412	2.1	0.5	2.1	1.8	2.4	83
2008	1679	2.1	0.5	2	1.8	2.4	82
2009	1837	2.1	0.5	2	1.8	2.4	81
2010	1913	2.1	0.5	2	1.7	2.3	79
2011	1787	2.1	0.5	2	1.8	2.3	79

Figure 12.2.1: Cumulative distribution of delivered Kt/V, PD patients 2004-2011

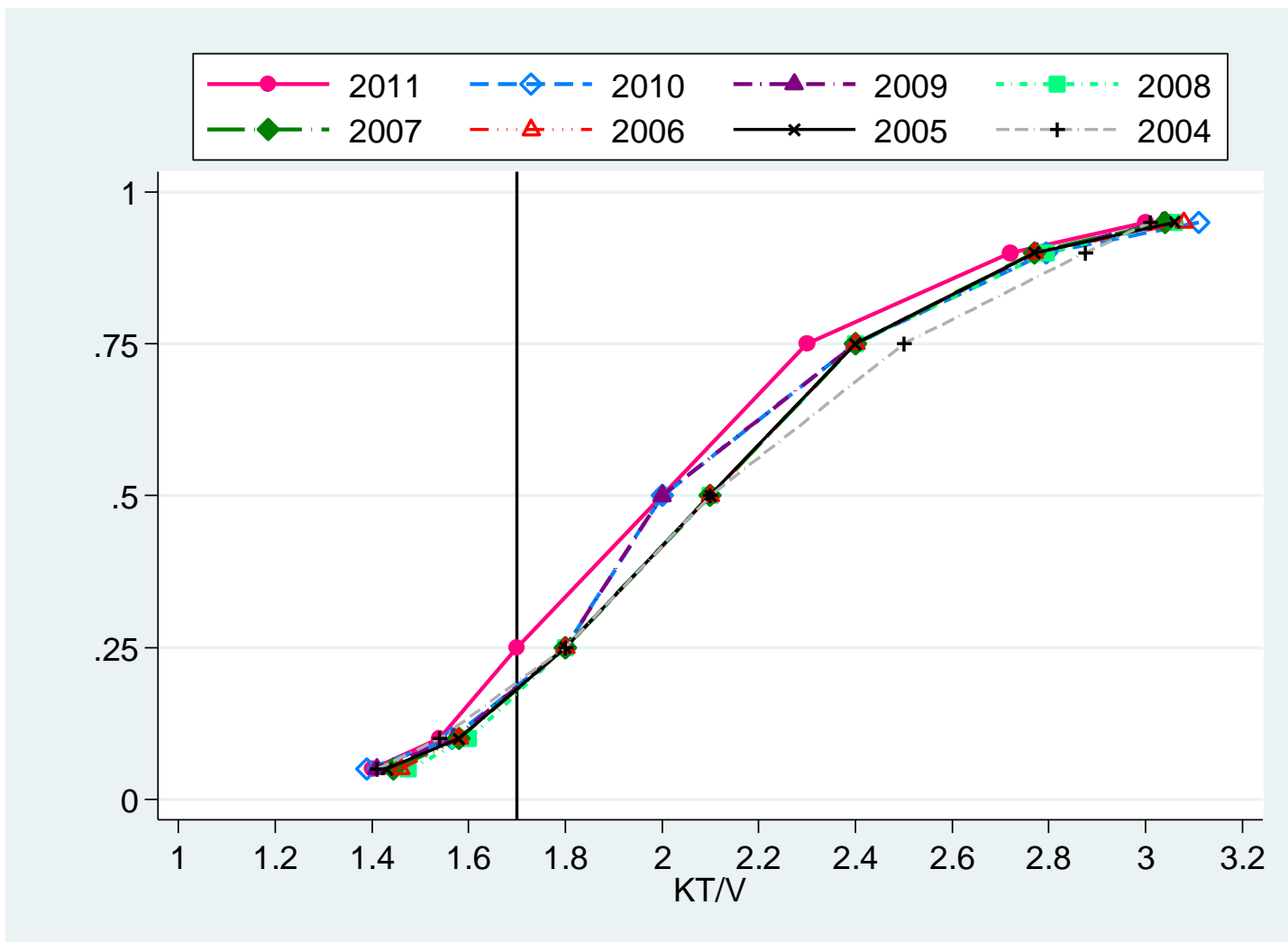


Table 12.2.2: Variation in proportion of patients with Kt/V \geq 1.7 per week among PD centres, 2004-2011

Year	Number of centres	Min	5th Centile	LQ	Median	UQ	95th Centile	Max
2004	17	75	75	79	85	88	100	100
2005	18	56	56	75	85	89	96	96
2006	20	66	66	78	82.5	91.5	100	100
2007	21	25	69	78	85	89	93	93
2008	20	33	50.5	76.5	80	89	93.5	96
2009	21	48	63	76	83	89	97	100
2010	22	48	59	73	79	86	90	94
2011	24	61	64	70.5	78.5	82.5	90	91

Figure 12.2.2: Variation in proportion of patients with $Kt/V \geq 1.7$ per week among PD centres 2011

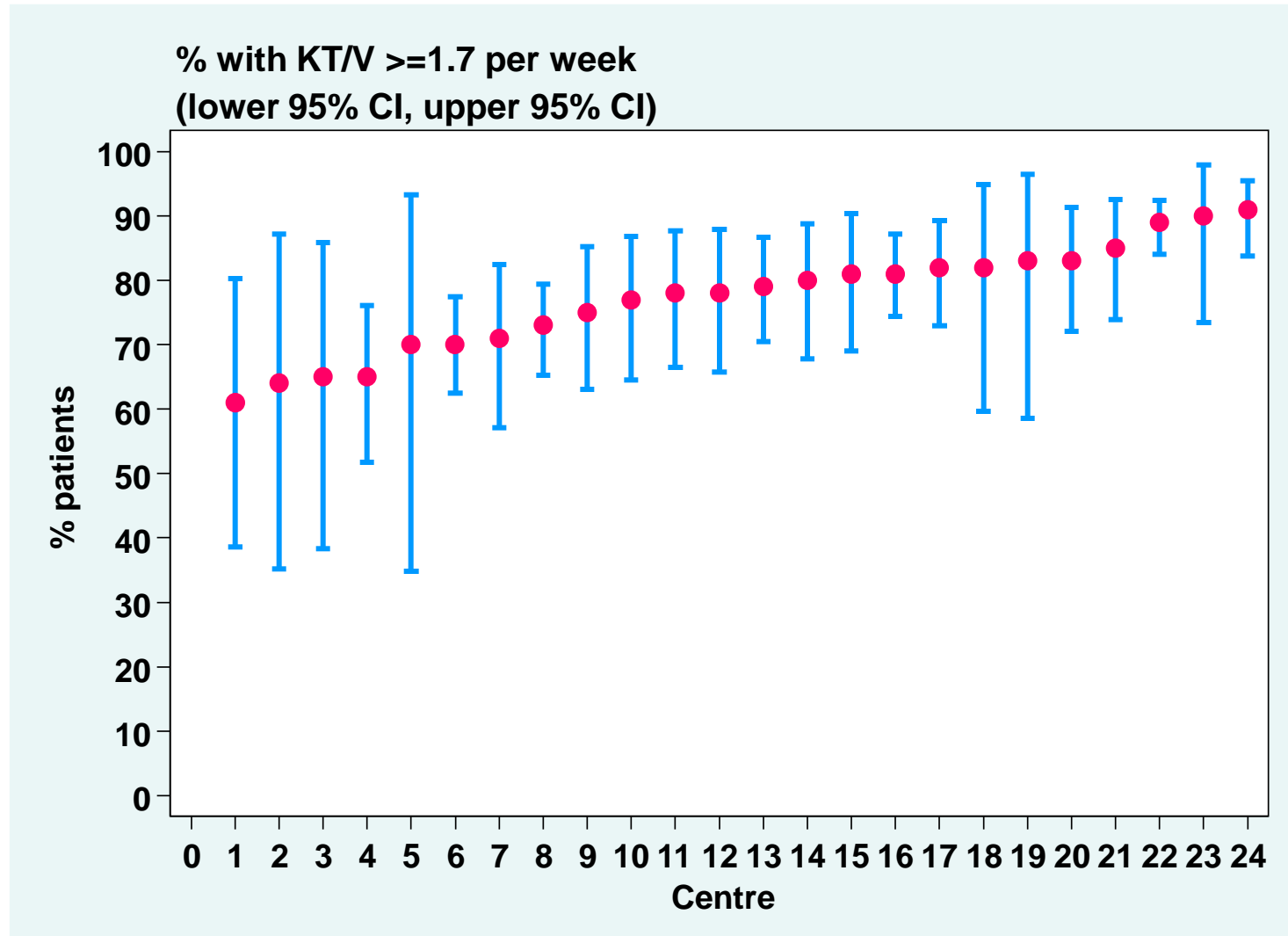


Table 12.2.3: Peritoneal transport status by PET D/P creatinine at 4 hours, new PD patients 2004-2011

Year	2004		2005		2006		2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Low	31	16	45	11	88	13	92	10	145	13	186	14	190	14	164	10
Low average	72	36	159	39	285	41	376	41	465	42	530	39	549	39	624	39
High average	82	41	156	39	256	37	355	39	384	35	455	34	480	34	609	38
High	14	7	45	11	63	9	88	10	108	10	181	13	180	13	196	12
Total	199	100	405	100	692	100	911	100	1102	100	1352	100	1399	100	1593	100

Table 12.2.4: Peritoneal Transport Status (PET) with dialysis vintage

Duration (Years)	<1		1-<2		2-<3		3-<4		4-<5	
	n	%	n	%	n	%	n	%	n	%
Low	32	9	38	9	34	11	22	12	16	11
Low average	157	42	153	38	98	32	76	41	57	40
High average	143	38	143	36	129	43	65	35	56	39
High	40	11	67	17	41	14	23	12	15	10
Total	372	100	401	100	302	100	186	100	144	100

Duration (Years)	5-<6		6-<7		7-<8		8-<9		9-<10		10 or more	
	n	%	n	%	n	%	n	%	n	%	n	%
Low	12	13	4	7	6	16	2	5	3	25	2	6
Low average	42	44	26	47	15	39	13	34	2	17	8	25
High average	34	36	22	40	17	45	22	58	7	58	15	47
High	7	7	3	5	0	0	1	3	0	0	7	22
Total	95	100	55	100	38	100	38	100	12	100	32	100

Table 12.3.1(a): Unadjusted technique survival by era 2002–2006 and 2007–2011 (uncensored for death and transplant)

Era Interval (month)	2002–2006			2007–2011		
	n	% Survival	SE	n	% Survival	SE
0	1959	100		3297	100	
6	1771	91	1	2622	89	1
12	1551	80	1	1958	78	1
24	1201	64	1	1108	60	1
36	892	48	1	529	46	1
48	679	37	1	188	33	1
60	517	29	1	-	-	-
72	310	22	1	-	-	-
84	163	16	1	-	-	-
96	85	13	1	-	-	-
108	27	10	1	-	-	-
120	-	-	-	-	-	-

Figure 12.3.1a: Unadjusted technique survival by era 2002–2006 and 2007–2011 (uncensored for death and transplant)

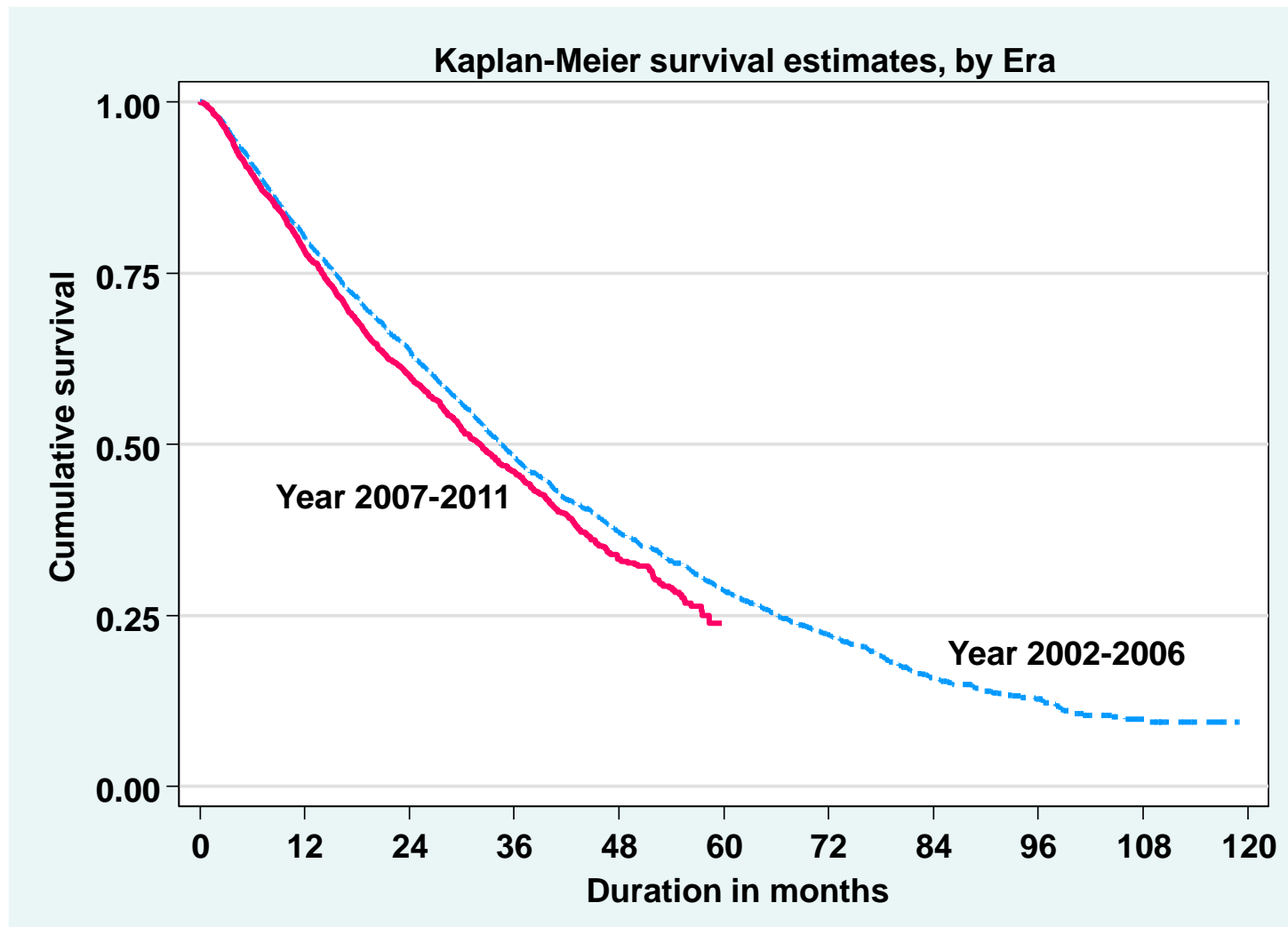


Table 12.3.1(b): Unadjusted technique survival by era 2002–2006 and 2007–2011 (censored for death and transplant)

Era Interval (month)	2002–2006			2007–2011		
	n	% Survival	SE	n	% Survival	SE
0	1959	100		3297	100	
6	1771	98	0	2622	96	0
12	1551	94	1	1958	92	1
24	1201	87	1	1108	83	1
36	892	80	1	529	75	1
48	679	74	1	188	68	2
60	517	67	1	-	-	-
72	310	62	2	-	-	-
84	163	55	2	-	-	-
96	85	50	2	-	-	-
108	27	45	3	-	-	-
120	-	-	-	-	-	-

Figure 12.3.1(b): Unadjusted technique survival by era 2002–2006 and 2007–2011 (censored for death and transplant)

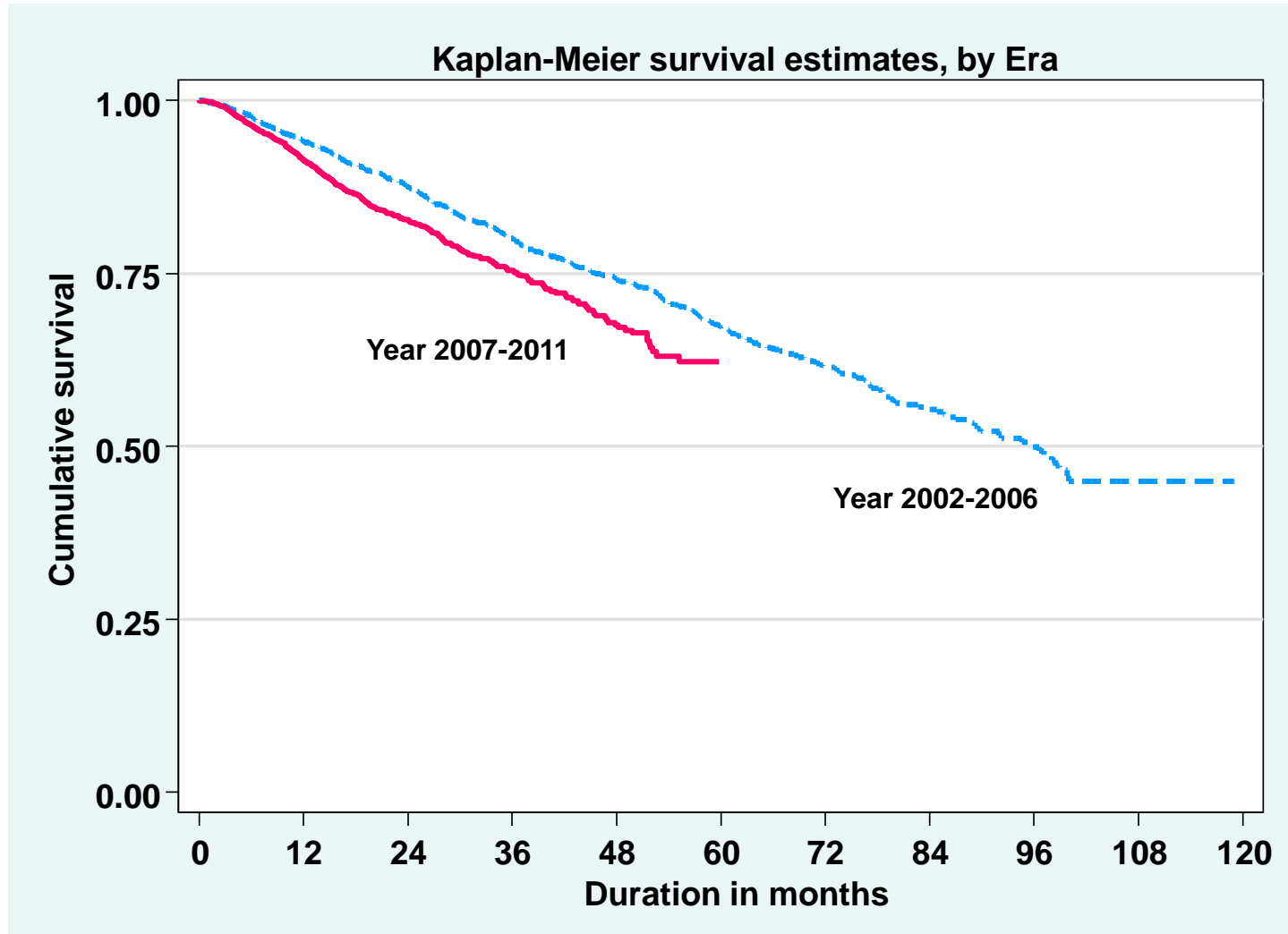


Figure 12.3.2(a): Unadjusted technique survival by age (uncensored for death and transplant), 2002-2011

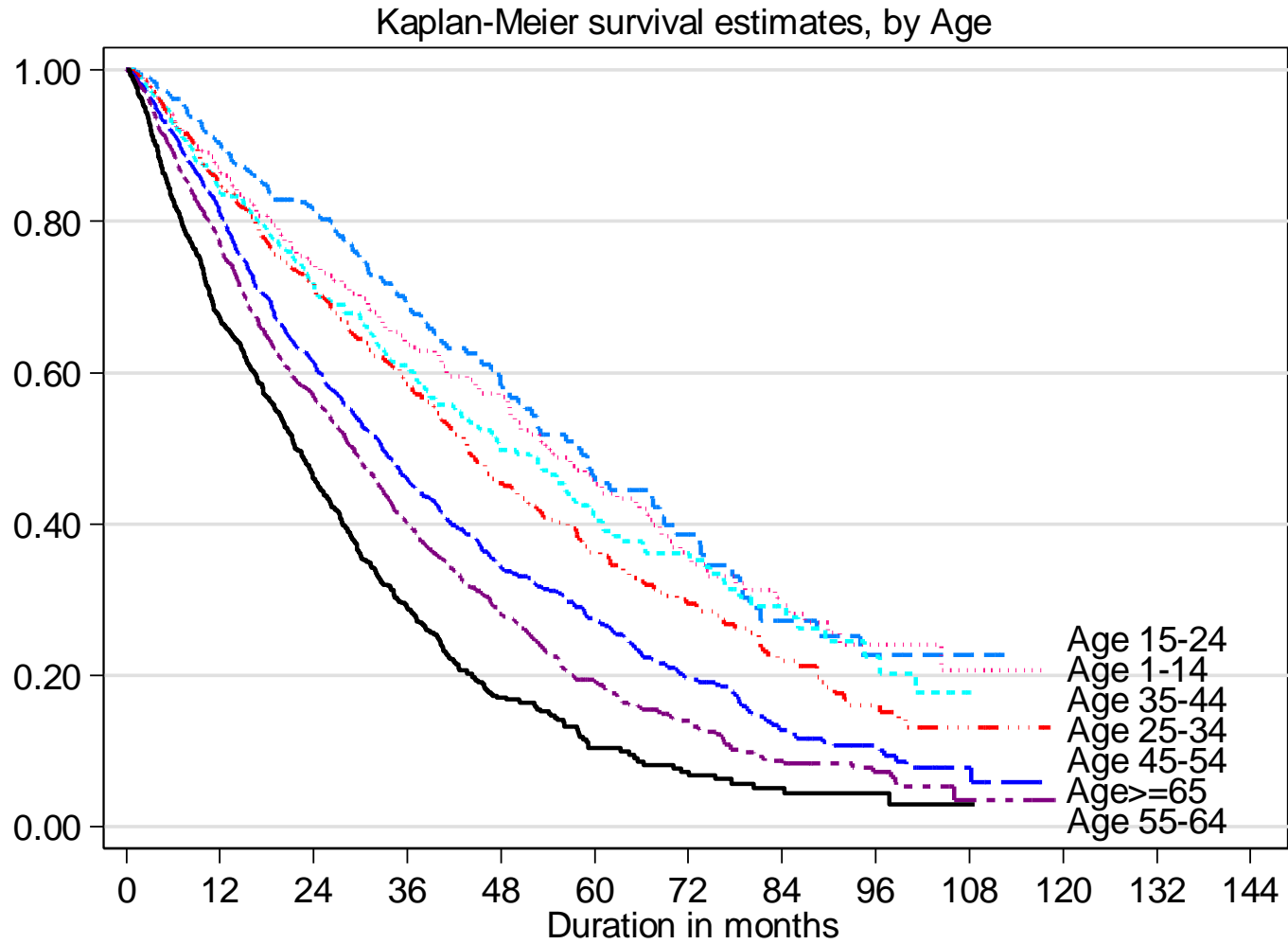
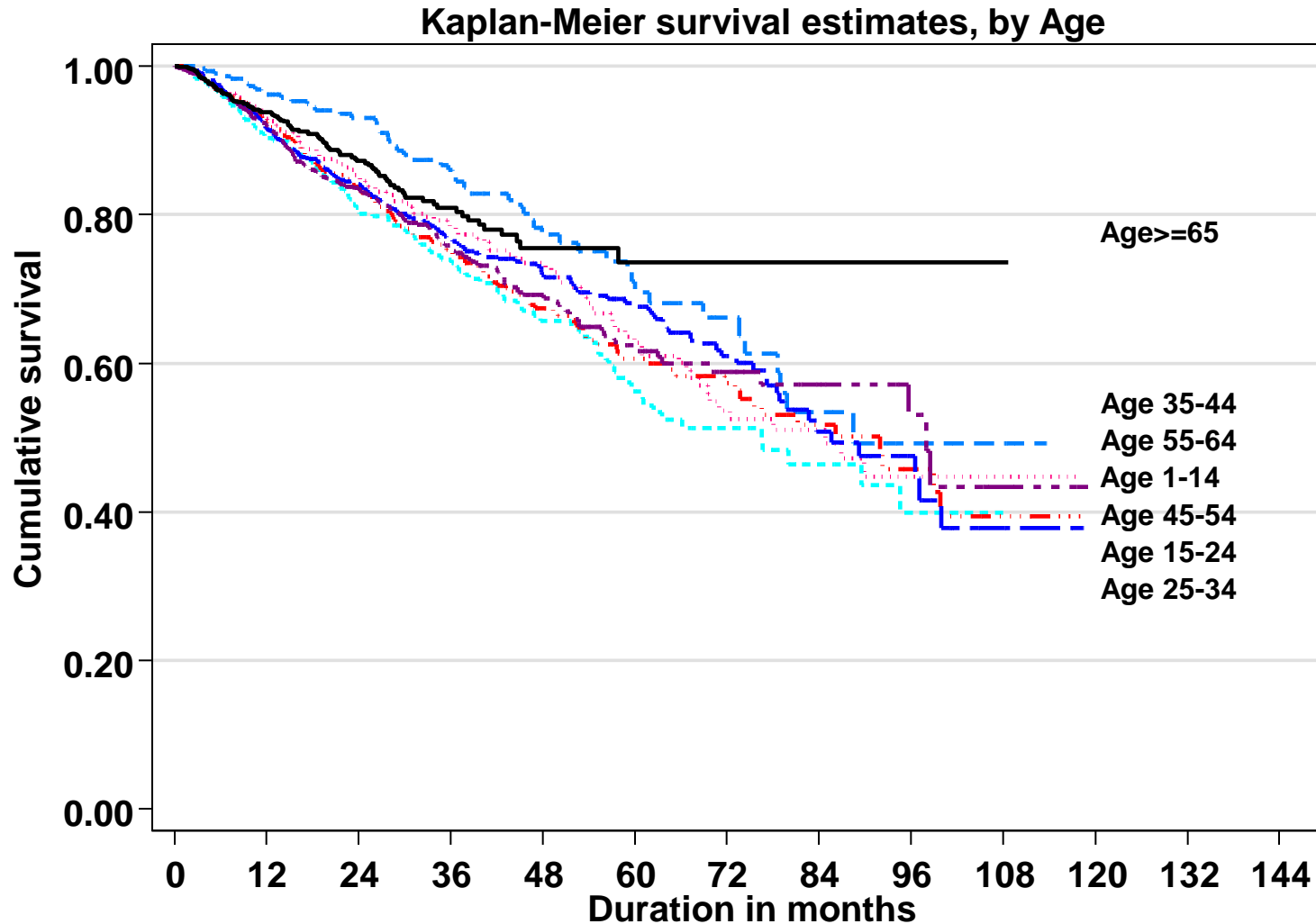


Table 12.3.2(b): Unadjusted technique survival by age (censored for death and transplant), 2002-2011

Age group (years)	<=14			15-24			25-34			35-44		
	n	% Survival	SE	n	% Survival	SE	n	% Survival	SE	n	% Survival	SE
0	329	100		424	100		434	100		604	100	
6	296	99	1	376	97	1	373	96	1	525	97	1
12	254	97	1	318	93	1	307	90	2	438	92	1
24	184	93	2	229	85	2	210	81	2	321	84	2
36	116	86	2	160	78	2	146	74	3	219	75	2
48	80	77	3	118	73	3	97	66	3	145	67	3
60	51	71	4	74	63	3	62	56	4	90	61	3
72	31	66	5	48	54	4	42	51	4	60	57	3
84	16	53	6	29	51	4	22	46	4	34	52	4
96	10	49	7	14	45	5	12	40	6	19	46	5
108	7	49	7	6	45	5	2	40	6	8	39	6
120	-	-	-	-	-	-	-	-	-	-	-	-

Age group (years)	45-54			55-64			≥65		
	n	% Survival	SE	n	% Survival	SE	n	% Survival	SE
0	1119	100		1307	100		1039	100	
6	955	97	1	1081	97	1	795	97	1
12	775	92	1	840	92	1	584	94	1
24	512	84	1	524	84	1	330	87	1
36	317	77	2	305	76	2	159	81	2
48	196	72	2	164	69	2	73	76	3
60	131	68	2	86	62	3	28	74	3
72	70	61	3	48	59	3	17	74	3
84	36	51	4	23	57	3	9	74	3
96	18	47	4	14	53	5	4	74	3
108	5	38	6	3	43	7	2	74	3
120	-	-	-	-	-	-	-	-	-

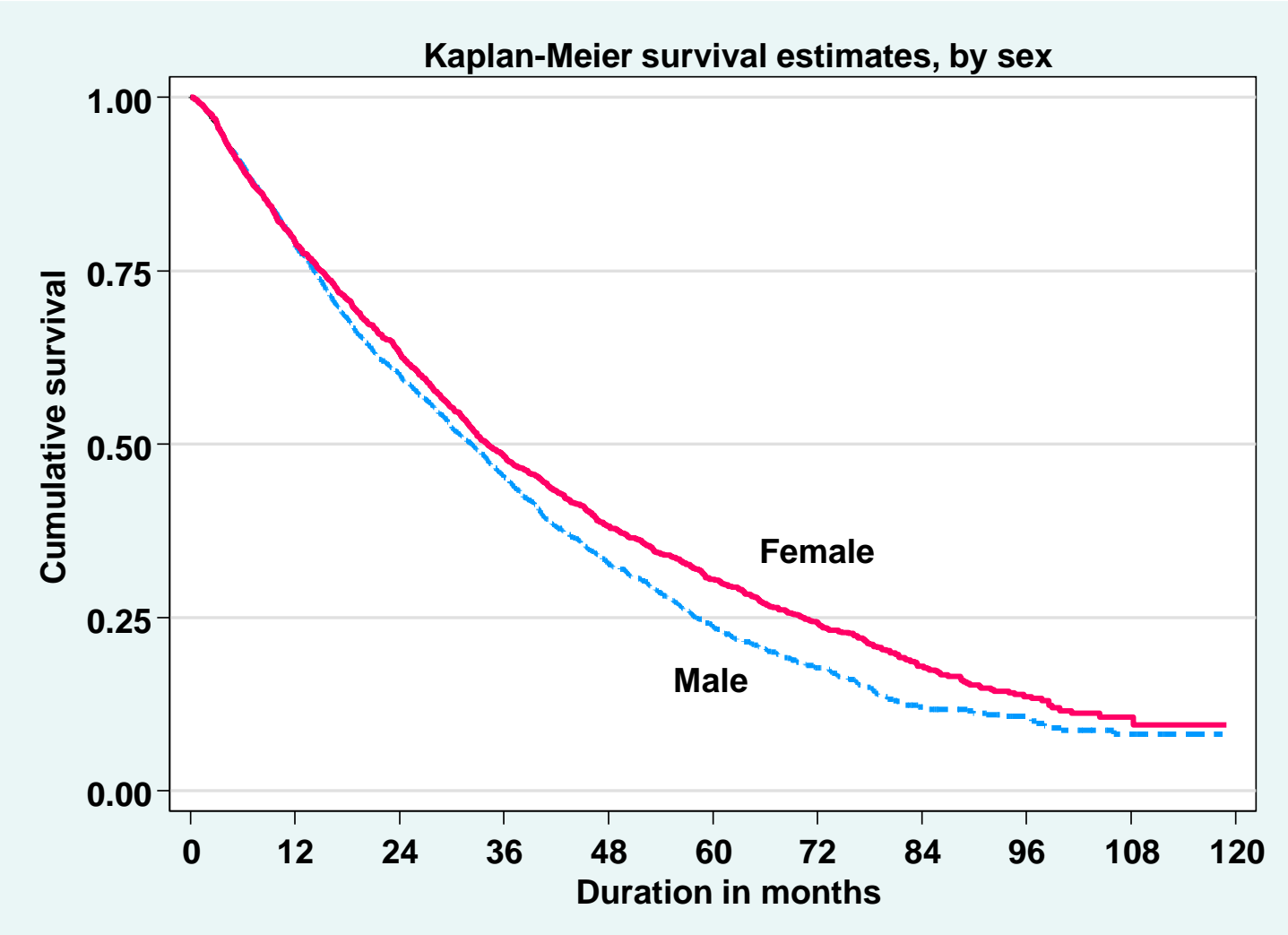
Figure 12.3.2(b): Unadjusted technique survival by age (censored for death and transplant), 2002-2011



**Table 12.3.3(a): Unadjusted technique survival by gender
(uncensored for death and transplant), 2002-2011**

Gender Interval (months)	Male			Female		
	n	% survival	SE	n	% survival	SE
0	2647	100		2609	100	
6	2218	90	1	2172	90	1
12	1760	79	1	1749	79	1
24	1141	60	1	1165	63	1
36	697	45	1	721	48	1
48	401	33	1	466	38	1
60	227	24	1	291	30	1
72	132	18	1	179	24	1
84	62	12	1	102	18	1
96	37	11	1	49	14	1
108	14	8	1	14	11	1
120	-	-	-	-	-	-

Figure 12.3.3(a): Unadjusted technique survival by gender (uncensored for death and transplant), 2002-2011



**Table 12.3.3(b): Unadjusted technique survival by gender
(censored for death and transplant), 2002-2011**

Gender Interval (months)	Male			Female		
	n	% survival	SE	n	% survival	SE
0	2647	100		2609	100	
6	2218	97	0	2172	97	0
12	1760	92	1	1749	93	1
24	1141	84	1	1165	86	1
36	697	77	1	721	78	1
48	401	69	1	466	73	1
60	227	60	2	291	67	2
72	132	55	2	179	63	2
84	62	47	3	102	58	2
96	37	46	3	49	50	3
108	14	38	4	14	47	3
120	-	-	-	-	-	-

Figure 12.3.3(b): Unadjusted technique survival by gender (censored for death and transplant), 2002-2011

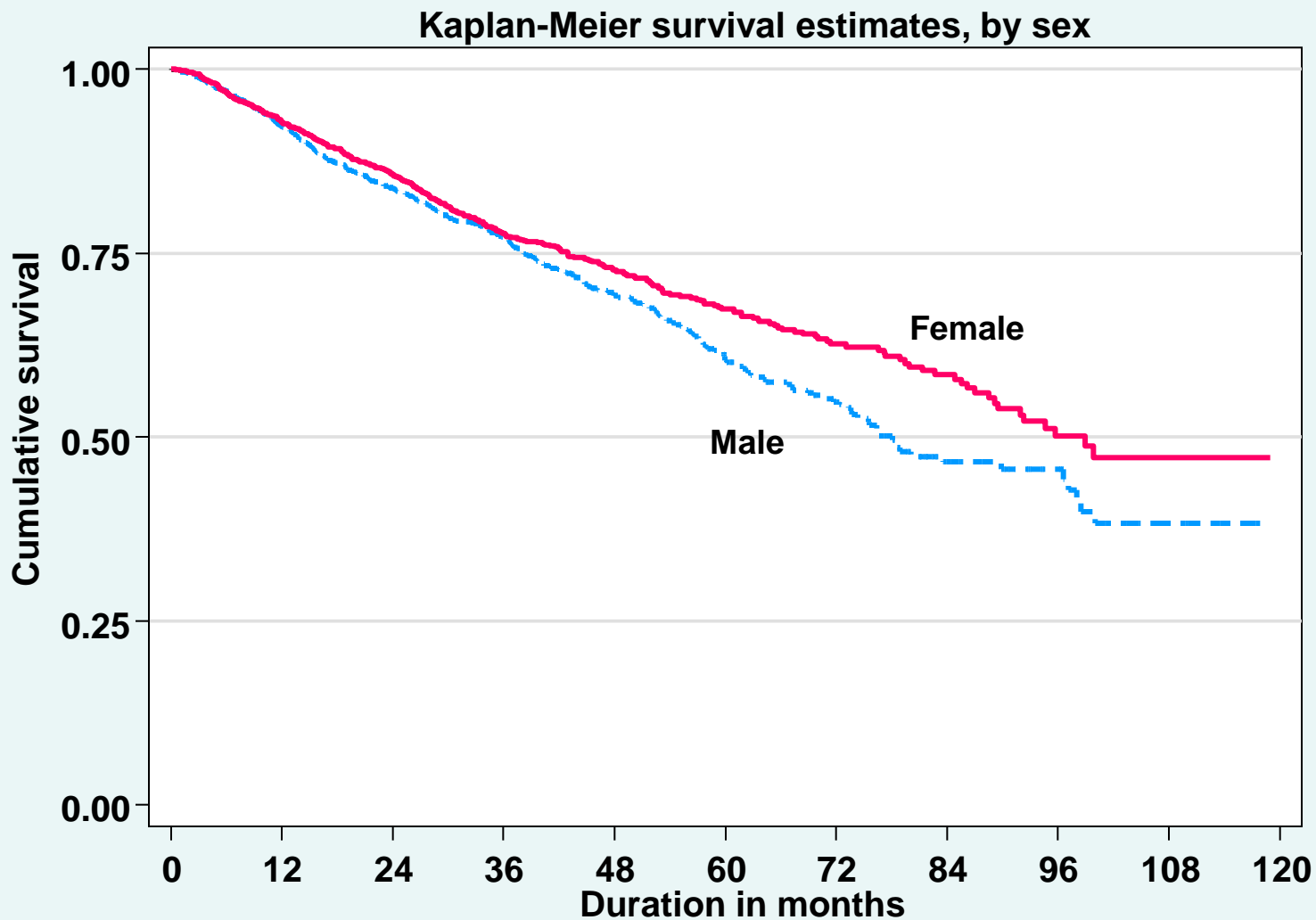
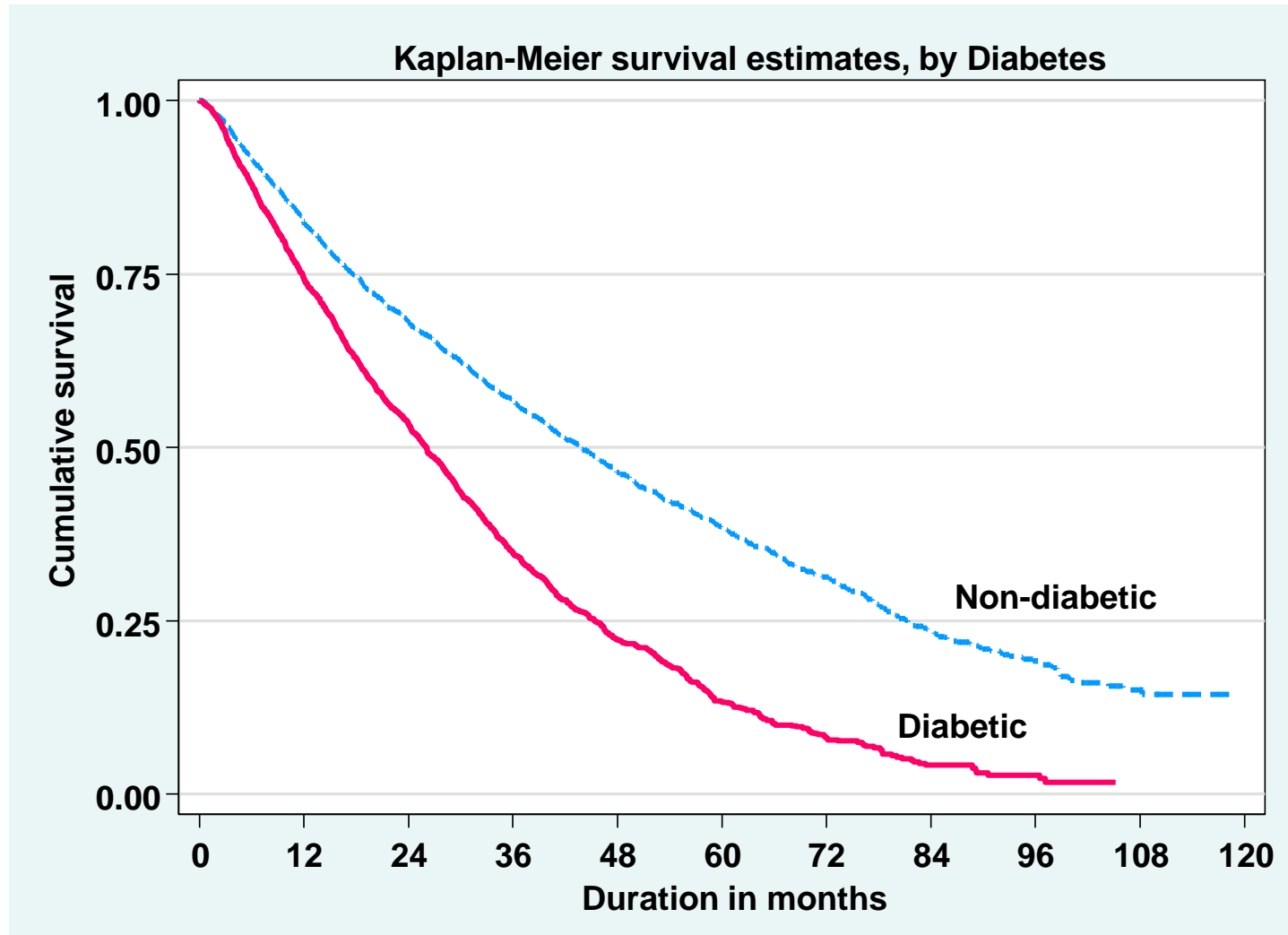


Table 12.3.4(a): Unadjusted technique survival by diabetes status (uncensored for death and transplant), 2002-2011

Diabetes status Interval (month)	Non-diabetic			Diabetic		
	n	% survival	SE	n	% survival	SE
0	3030	100		2226	100	
6	2549	92	1	1843	88	1
12	2052	83	1	1457	74	1
24	1365	68	1	939	53	1
36	920	57	1	495	35	1
48	616	46	1	252	22	1
60	410	38	1	108	13	1
72	263	31	1	48	8	1
84	147	24	1	17	4	1
96	80	19	1	6	3	1
108	27	15	2	-	-	-
120	-	-	-	-	-	-

Figure 12.3.4(a): Unadjusted technique survival by Diabetes status (uncensored for death and transplant), 2002-2011



**Table 12.3.4(b): Unadjusted technique survival by diabetes status
(censored for death and transplant), 2002-2011**

Diabetes status Interval (month)	Non- diabetes			Diabetic		
	n	% survival	SE	n	% survival	SE
0	3030	100		2226	100	
6	2549	97	0	1843	97	0
12	2052	93	1	1457	92	1
24	1365	85	1	939	84	1
36	920	78	1	495	77	1
48	616	72	1	252	69	2
60	410	65	1	108	63	2
72	263	60	2	48	58	3
84	147	53	2	17	53	4
96	80	48	2	6	48	6
108	27	44	3	-	-	-
120	-	-	-	-	-	-

Figure 12.3.4(b): Unadjusted technique survival by diabetes status (censored for death and transplant), 2002-2011

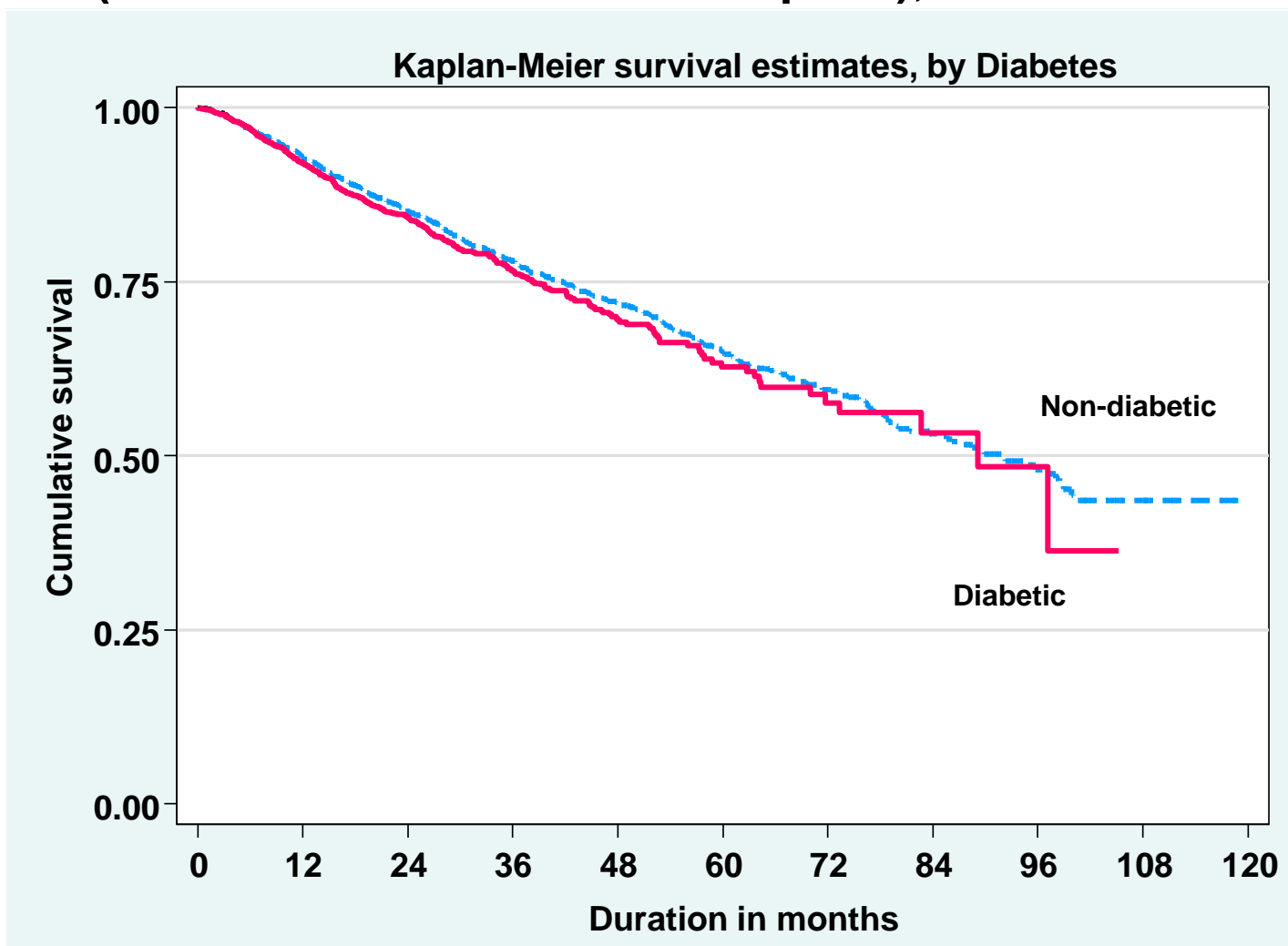


Table 12.3.5: Unadjusted technique survival by Kt/V, 2002-2011

Kt/V Interval (months)	<1.7			1.7-2.0			>2.0		
	n	% Survival	SE	n	% Survival	SE	n	% Survival	SE
0	2326	100		3392	100		6929	100	
6	2259	98	0	3319	99	0	6776	99	0
12	2107	94	1	3150	95	0	6412	96	0
24	1783	84	1	2742	87	1	5485	87	0
36	1362	71	1	2221	77	1	4312	76	1
48	998	59	1	1690	65	1	3372	66	1
60	706	47	1	1255	55	1	2527	57	1
72	509	38	1	933	48	1	1882	49	1
84	341	30	1	612	37	1	1344	40	1
96	228	25	1	405	29	1	938	34	1
108	145	20	1	239	23	1	603	29	1
120	84	17	1	133	17	1	387	23	1

Figure 12.3.5: Unadjusted technique survival by Kt/V,2002-2011

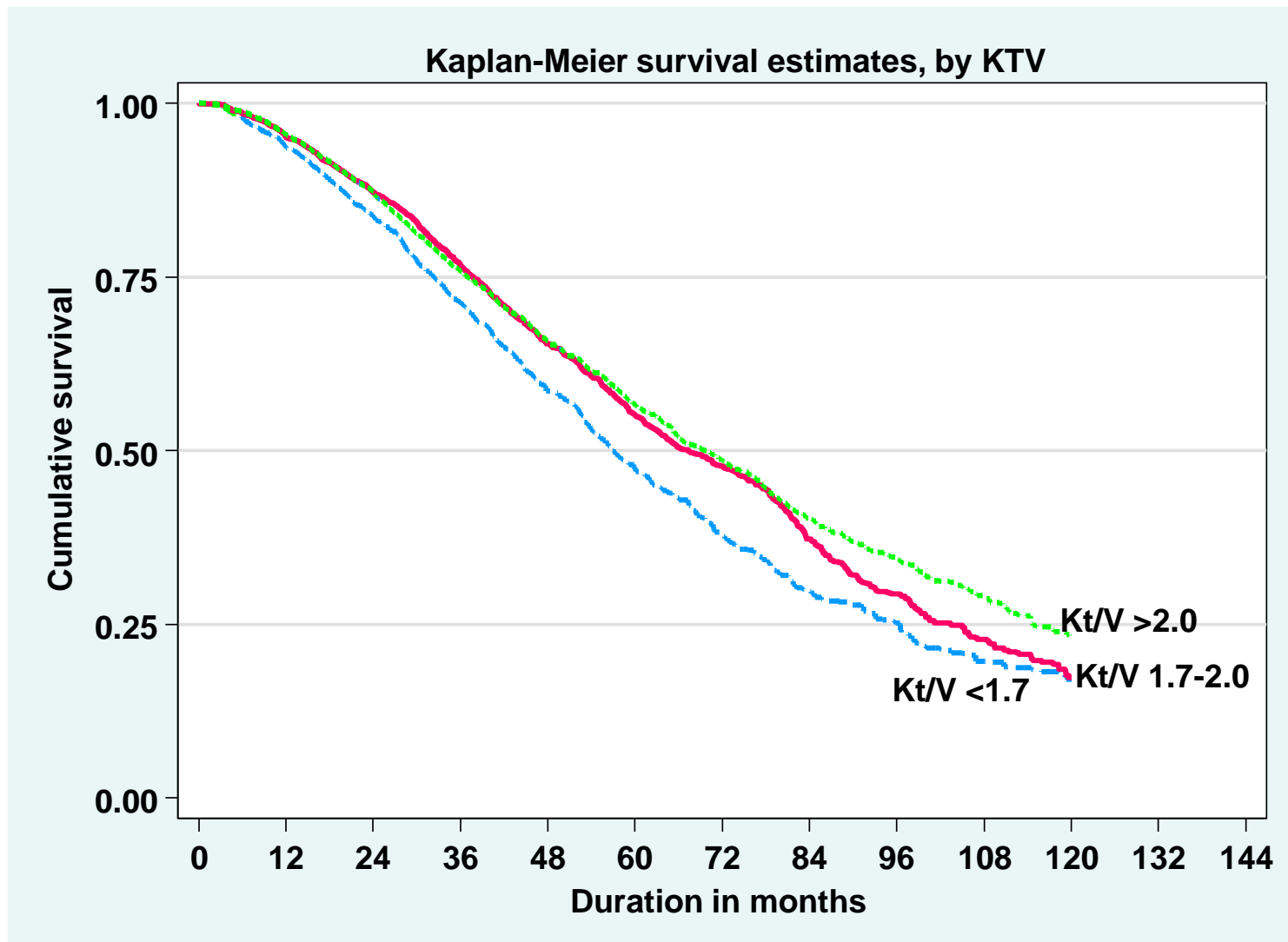


Table 12.3.6: Adjusted hazard ratio for change of modality, 2002-2011

Factors	n	Hazard ratio	95% CI	p value
Age (years):				
• Age 1-14 (ref ^a)	329	1.00		
• Age 15-24	424	1.01	(0.69; 1.48)	0.961
• Age 25-34	434	1.18	(0.79; 1.76)	0.407
• Age 35-44	604	1.20	(0.81; 1.78)	0.355
• Age 45-54	1119	1.03	(0.7; 1.51)	0.873
• Age 55-64	1307	1.11	(0.76; 1.63)	0.596
• Age >=65	1039	1.18	(0.77; 1.81)	0.441
Peritonitis				
• No (ref ^a)	4886	1.00		
• Yes	670	8.82	(7.58; 10.28)	<0.001
Diabetes Mellitus				
• Non-diabetic (ref ^a)	3030	1.00		
• Diabetic	2226	1.10	(0.92; 1.33)	0.288
Gender:				
• Male (ref ^a)	2647	1.00		
• Female	2609	0.82	(0.7; 0.97)	0.021
Cardiovascular Disease:				
• No CVD (ref ^a)	4203	1.00		
• CVD	1053	0.76	(0.61; 0.96)	0.019
BMI:				
• <18.5	633	1.14	(0.89; 1.47)	0.296
• 18.5-<25 (ref ^a)	2732	1.00		
• >=25	1891	1.33	(1.13; 1.56)	0.001
Serum Albumin:				
• <30	1600	1.55	(1.26; 1.9)	<0.001
• 30-<35	1630	1.10	(0.93; 1.31)	0.279
• 35-<45 (ref ^a)	1991	1.00		
• >=45	35	0.89	(0.28; 2.81)	0.848
Serum cholesterol (mmol/L):				
• <3.5	251	0.88	(0.58; 1.33)	0.544
• 3.5-<5.2	2708	0.71	(0.58; 0.87)	0.001
• 5.2-<6.2	1429	0.84	(0.68; 1.05)	0.119
• >=6.2 (ref ^a)	868	1.00		

Factors	n	Hazard ratio	95% CI	p value
Diastolic BP:				
• <70	735	0.80	(0.59; 1.07)	0.131
• 70-<80	1892	0.94	(0.79; 1.13)	0.531
• 80-<90 (ref ^a)	1984	1.00		
• 90-<100	566	1.31	(1.05; 1.62)	0.017
• >=100	79	1.45	(0.92; 2.29)	0.113
Hemoglobin:				
• <10	1911	1.37	(1.17; 1.6)	0.000
• 10-<12 (ref ^a)	2798	1.00		
• >=12	547	1.00	(0.75; 1.32)	0.978
Serum calcium (mmol/L):				
• <2.1	1309	1.27	(1.06; 1.52)	0.011
• 2.1-<=2.37 (ref ^a)	2862	1.00		
• >2.37	1085	0.83	(0.68; 1.01)	0.059
Calcium Phosphate product:				
• <3.5	3023	1.31	(1.05; 1.65)	0.019
• 3.5-<4.5 (ref ^a)	1491	1.00		
• 4.5-<5.5	530	0.85	(0.62; 1.16)	0.306
• >=5.5	212	0.99	(0.61; 1.63)	0.980
Serum Phosphate (mmol/L):				
• <0.8	69	3.95	(2.1; 7.41)	<0.001
• 0.8-<1.3 (ref ^a)	1401	1.00		
• 1.3-<1.8	2522	0.79	(0.64; 0.97)	0.025
• 1.8-<2.2	840	0.83	(0.59; 1.17)	0.292
• >=2.2	424	1.35	(0.83; 2.2)	0.231
Kt/V				
• <1.7	837	1.27	(1.03; 1.57)	0.026
• 1.7-2.0 (ref ^a)	1048	1.00		
• <=2	2259	1.10	(0.92; 1.32)	0.303
Assisted PD				
• Selfcare (ref ^a)	2687	1.00		
• Assisted	2431	0.98	(0.82; 1.17)	0.802

Table 12.3.7(a): Reasons for drop-out from PD program, 2002-2011

Year	2004		2005		2006		2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Death	156	60	182	61	177	58	230	66	277	63	321	65	333	65	323	64
Transplant	13	5	22	7	25	8	18	5	21	5	15	3	12	2	17	3
Peritonitis	38	15	29	10	33	11	36	10	50	11	76	15	79	15	66	13
Catheter related infection	5	2	2	1	2	1	4	1	4	1	11	2	14	3	17	3
Membrane failure	19	7	27	9	18	6	13	4	24	5	18	4	26	5	31	6
Technical problem	2	1	11	4	9	3	4	1	7	2	19	4	14	3	21	4
Patient preference	20	8	10	3	9	3	20	6	50	11	30	6	17	3	20	4
Others	8	3	7	2	16	5	14	4	2	0	3	1	16	3	7	1
Unknown	0	0	8	3	17	6	12	3	2	0	1	0	1	0	1	0
Total	261	101	298	100	306	101	351	100	437	98	494	100	512	99	503	98

Table 12.3.7 (b): Drop-out rate from PD program with time on treatment, 2002-2011

Year	2004		2005		2006		2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
<3 months	8	3	17	6	12	4	20	6	31	7	38	8	18	4	24	5
3-<6 months	17	7	24	8	25	8	33	9	30	7	39	8	48	9	43	9
6-<12 months	37	14	39	13	38	12	57	16	65	15	78	16	62	12	68	14
>=12 months	199	76	218	73	231	75	241	69	311	71	339	69	384	75	368	73
Total	261	100	298	100	306	100	351	100	437	100	494	100	512	100	503	100

Table 12.3.8: Time on PD (2002-2011)

	Months													
	0-<6	6-11	12-17	18-23	24-29	30-35	36-41	42-47	48-59	60-71	72-83	84-95	96-107	≥108
1st Treatment (n=5256)	868	879	670	535	460	429	299	247	354	206	146	79	58	26

Table 12.4.1 Variation in peritonitis rate (pt-month/epi) among PD centres, 2002-2011

Year	Number of centres	Min	5th Centile	LQ	Median	UQ	95th Centile	Max
2002	11	12.6	12.6	17.9	32.7	44.4	219.2	219.2
2003	13	18.2	18.2	21.3	32.9	39.6	312.1	312.1
2004	15	0	0	23.6	32.7	36.6	41.5	41.5
2005	15	18	18	26.3	35.6	43	57.7	57.7
2006	21	14.8	18.5	26.8	37.7	50.8	65.2	97.7
2007	23	12	12.9	31.2	42.1	56.6	66.9	106.7
2008	25	12	13	30	40.4	58.5	105.5	114.6
2009	25	14	17.6	29.8	37.8	55.3	119.7	245.8
2010	26	10.8	19.3	28.9	35.3	53.4	72.3	82.9
2011	28	13.3	17.3	32.9	48.8	67.8	113.6	258.9

Figure 12.4.1 Variation in peritonitis rate among PD centres, 2011

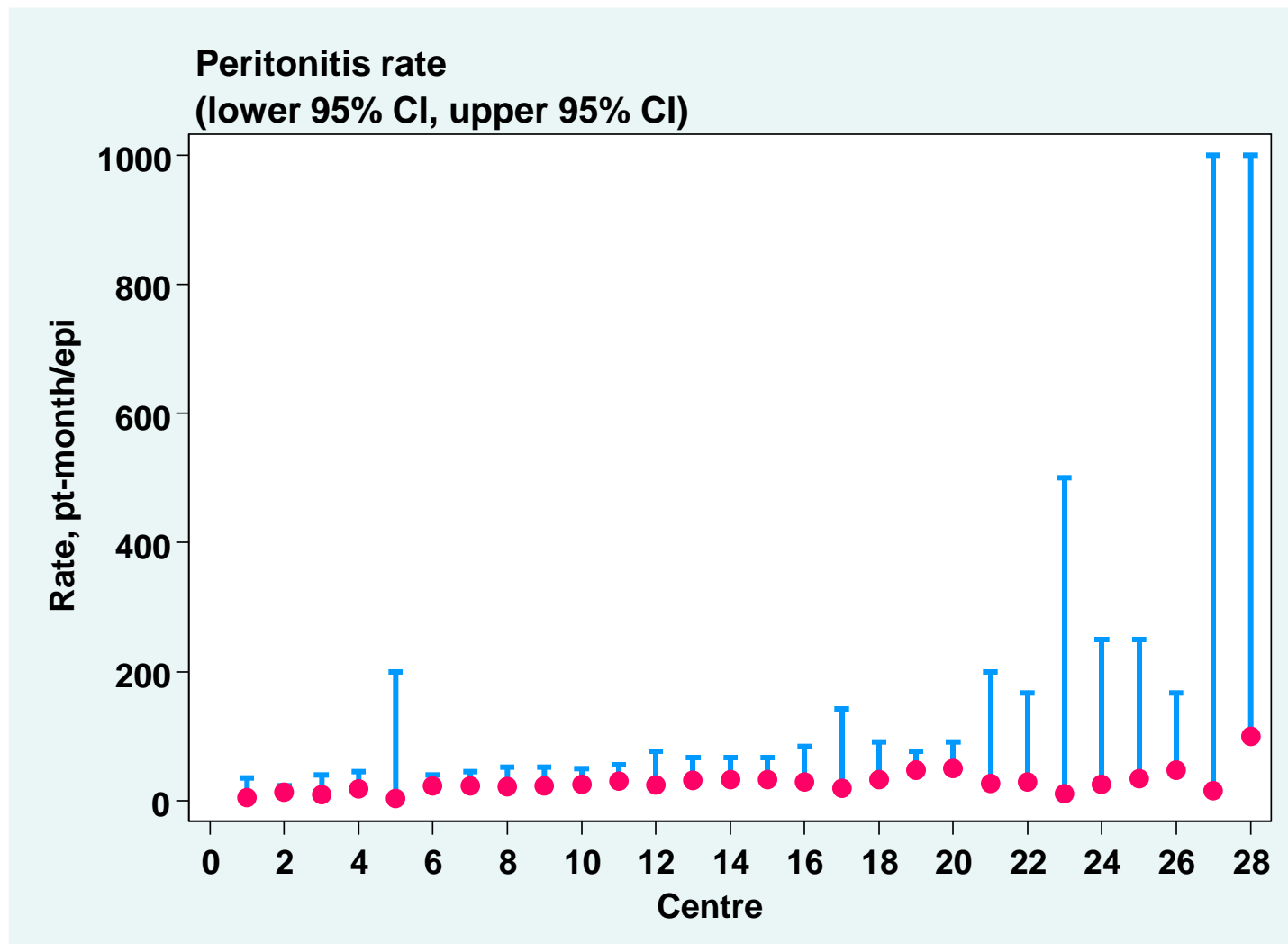


Table 12.4.2(a): Causative organism in PD peritonitis, 2002-2011

Microorganism	2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
(A) Gram Positives																				
Staph. aureus	62	17	45	12	52	14	39	12	51	14	47	13	46	10	53	11	74	15	78	15
Staph Coagulase Neg.	39	11	47	13	41	11	42	13	32	9	29	8	49	11	51	10	54	11	46	9
Strep	12	3	16	4	13	3	10	3	17	5	14	4	19	4	17	3	12	2	34	6
Others	8	2	16	4	4	1	7	2	14	4	11	3	7	2	6	1	6	1	19	4
(B) Gram Negatives																				
Pseudomonas	23	6	20	5	28	8	27	8	23	6	29	8	40	9	34	7	32	6	43	8
Acinetobacter	18	5	27	7	25	7	21	7	8	2	21	6	20	4	17	3	9	2	22	4
Klebsiella	11	3	13	4	19	5	19	6	20	5	17	5	23	5	27	6	31	6	29	6
Enterobacter	12	3	6	2	9	2	13	4	7	2	8	2	3	1	13	3	8	2	9	2
E.Coli	23	6	20	5	23	6	30	9	15	4	32	9	42	9	41	8	60	12	50	10
Others	3	1	9	2	7	2	4	1	7	2	6	2	8	2	9	2	9	2	9	2
(C) Polymicrobial	8	2	3	1	2	1	0	0	1	0	0	0	0	0	13	3	4	1	0	0
(D) Others																				
Fungal	12	3	12	3	15	4	7	2	16	4	20	5	24	5	18	4	15	3	17	3
Mycobacterium	1	0	3	1	4	1	2	1	4	1	1	0	4	1	1	0	0	0	6	1
Others	11	3	12	3	8	2	3	1	10	3	12	3	21	5	16	3	34	7	30	6
(E) No growth	118	33	115	32	123	33	96	30	141	39	122	33	160	34	174	36	147	30	132	25
TOTAL	361	100	364	100	373	100	320	100	366	100	369	100	466	100	490	100	495	100	524	100

Figure 12.4.2(b) Causative organism in PD peritonitis, 2002-2011

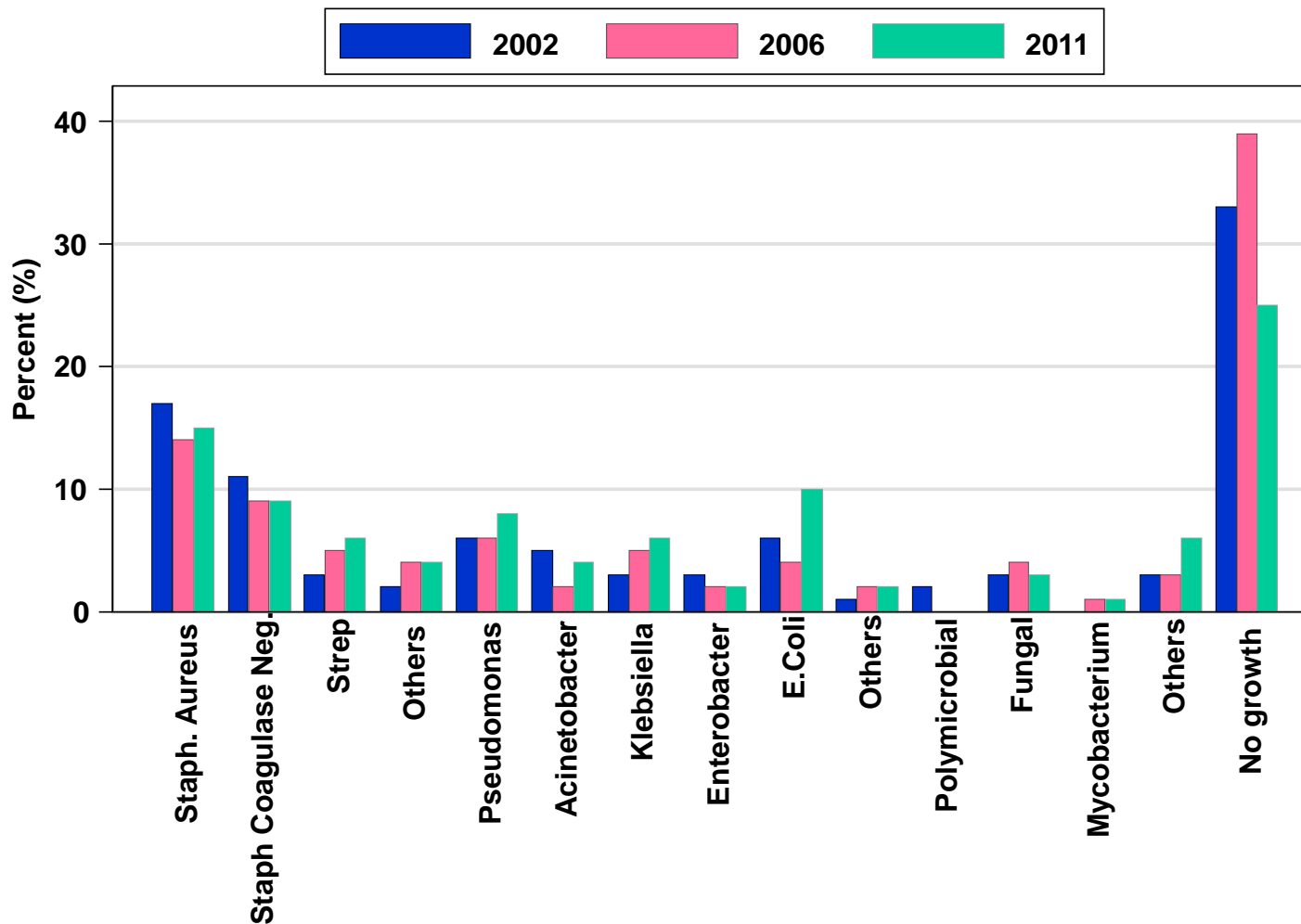


Table 12.4.3(a): Outcome of peritonitis by causative organism, 2002-2006

Causative Organism	Outcome							
	Resolved		Not resolved, catheter removed		Death		Total	
	n	%	n	%	n	%	n	%
(A) Gram Positives								
Staph. Aureus	178	79	48	21	0	0	226	100
Staph Coagulase Neg.	163	91	17	9	0	0	180	100
Strep	45	80	11	20	0	0	56	100
Others	33	80	7	17	1	2	41	100
(B) Gram Negatives								
Pseudomonas	54	50	54	50	0	0	108	100
Acinetobacter	0		0		0		0	100
Klebsiella	61	70	26	30	0	0	87	100
Enterobacter	46	64	26	36	0	0	72	100
E.Coli	66	65	35	35	0	0	101	100
Others	37	55	30	45	0	0	67	100
(C) Polymicrobial	8	57	6	43	0	0	14	100
(D) Others								
Fungal	2	3	56	97	0	0	58	100
Mycobacterium	1	8	11	92	0	0	12	100
Others	24	69	11	31	0	0	35	100
(E) No growth	426	80	105	20	0	0	531	100

Figure 12.4.3(a): Outcome of peritonitis by causative organism, 2002-2006

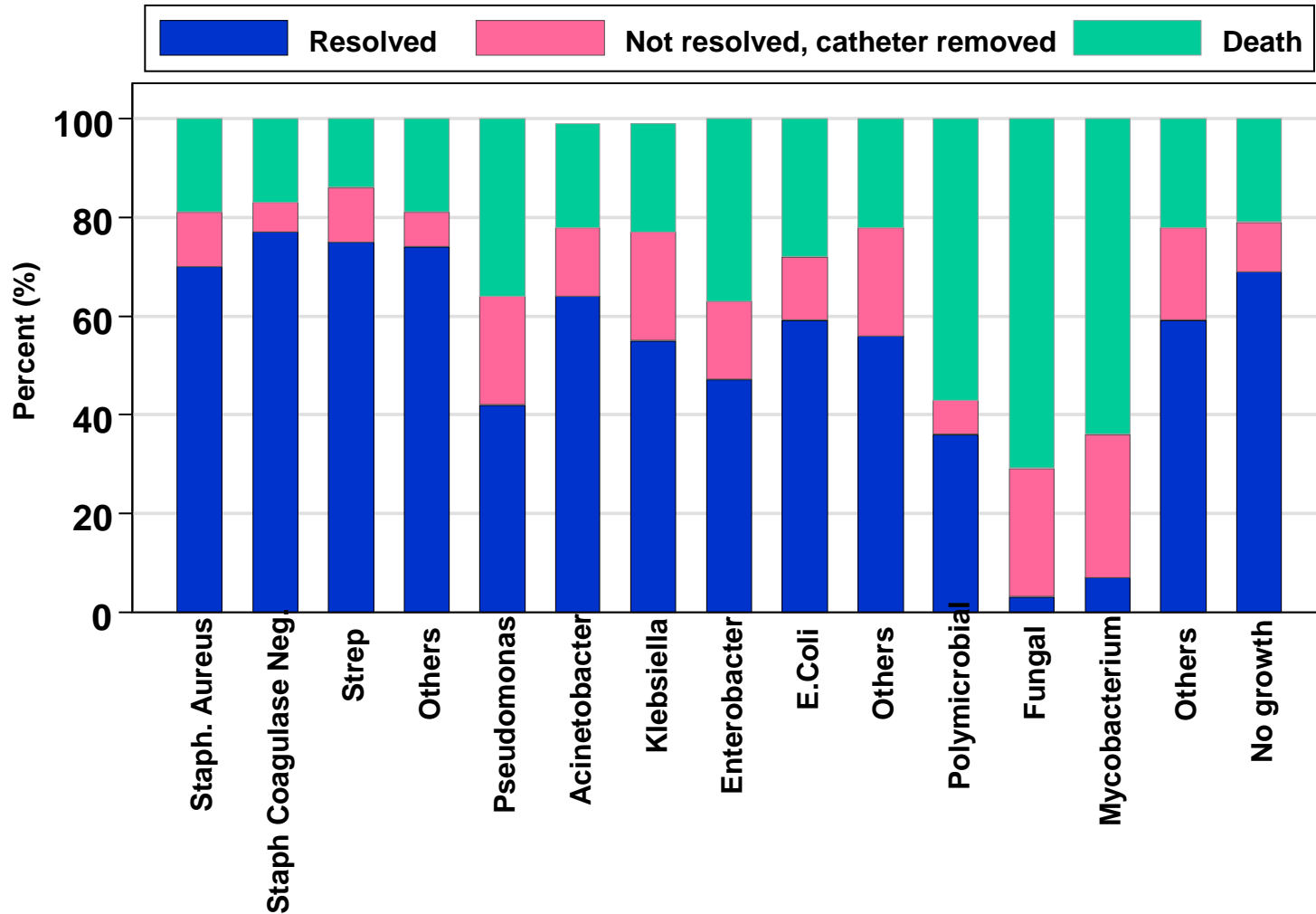


Table 12.4.3(b): Outcome of peritonitis by causative organism, 2007-2011

Causative Organism	Outcome							
	Resolved		Not resolved, catheter removed		Death		Total	
	n	%	n	%	n	%	n	%
(A) Gram Positives								
Staph. Aureus	185	67	49	18	41	15	275	100
Staph Coagulase Neg.	180	82	15	7	24	11	219	100
Strep	75	81	4	4	14	15	93	100
Others	38	84	4	9	3	7	45	100
(B) Gram Negatives								
Pseudomonas	52	32	49	30	61	38	162	100
Acinetobacter	44	54	15	18	23	28	82	100
Klebsiella	66	54	20	16	36	30	122	100
Enterobacter	27	71	2	5	9	24	38	100
E. Coli	136	63	25	12	54	25	215	100
Others	20	53	12	32	6	16	38	100
(C) Polymicrobial	5	29	5	29	7	41	17	100
(D) Others								
Fungal	7	8	30	33	53	59	90	100
Mycobacterium	0	0	4	33	8	67	12	100
Others	69	64	16	15	22	21	107	100
(E) No growth	467	67	88	13	137	20	692	100

Figure 12.4.3(b): Outcome of peritonitis by causative organism, 2007-2011

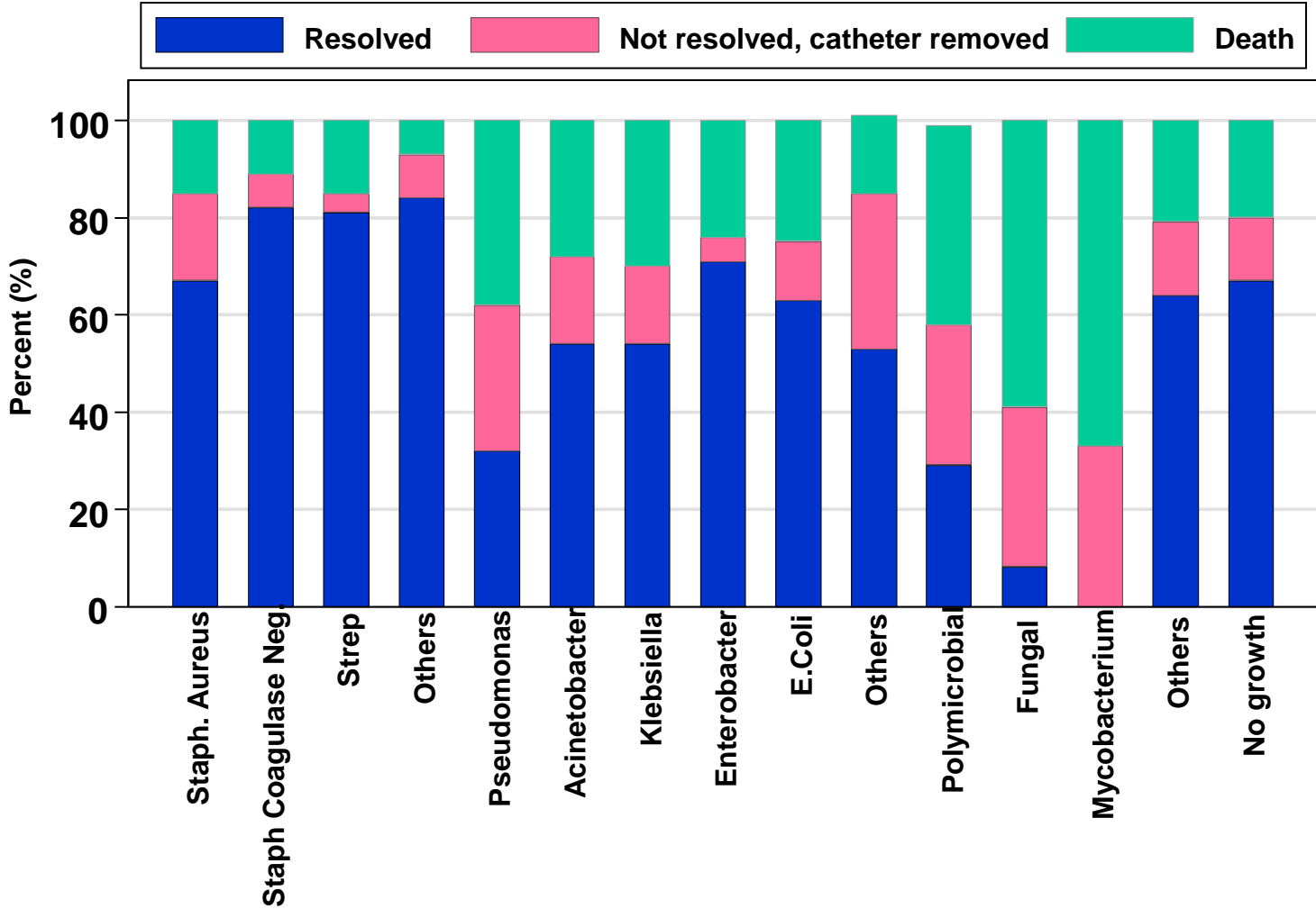


Figure 12.4.3(b): Outcome of peritonitis by causative organism, 2007-2011

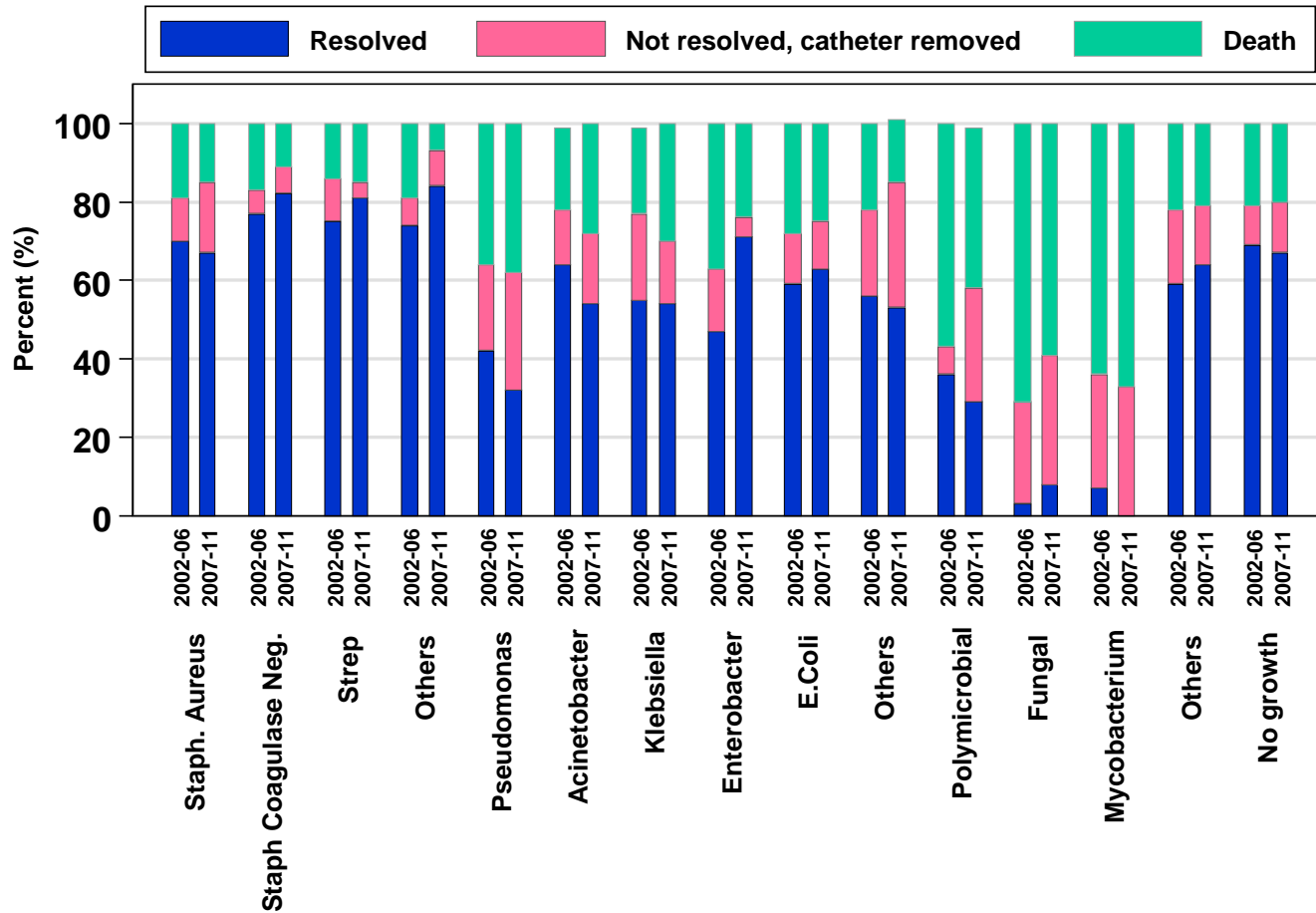


Table 12.4.4: Risk factor influencing peritonitis rate, 2002-2011

Factors	n	Risk Ratio	95% CI	P value
Age (years):				
• <=14	392	0.91	(0.74; 1.1)	0.326
• 15-24	288	1.00	(0.85; 1.18)	0.961
• 25-34 ^(ref[†])	390	1.00		
• 35-44	537	1.13	(0.97; 1.31)	0.114
• 45-54	986	1.10	(0.95; 1.27)	0.208
• 55-64	1167	1.08	(0.93; 1.26)	0.313
• >=65	859	0.98	(0.83; 1.17)	0.849
Gender:				
• Male ^(ref[†])	2321	1.00		
• Female	2298	1.03	(0.95; 1.1)	0.498
Diabetes:				
• No ^(ref[†])	2637	1.00		
• Yes	1982	1.05	(0.97; 1.14)	0.228
Income:				
• RM 0-999 ^(ref[†])	1784	1.00		
• RM 1000-1999	1542	0.85	(0.79; 0.93)	<0.001
• RM 2000-2999	723	0.84	(0.75; 0.93)	0.001
• >=3000	570	0.76	(0.67; 0.87)	<0.001
Education:				
• Nil	439	1.17	(1.02; 1.34)	0.023
• Primary	1526	1.09	(1; 1.19)	0.040
• Secondary ^(ref[†])	2227	1.00		
• Tertiary	427	0.94	(0.82; 1.08)	0.413
Assistance to perform CAPD:				
• Self care ^(ref[†])	2448	1.00		
• Partially assisted	747	0.89	(0.79; 0.99)	0.031
• Completely assisted	1424	0.94	(0.86; 1.04)	0.236