

Appendix Table 7. Detailed Results of Univariate Postoperative Pulmonary Complication Rates Stratified by Surgical Site*

Author, Year (Reference)	Patients, <i>n</i>	PPCs, <i>n</i>	Any Abdominal Surgery		Vertical Abdominal Incision		Upper Abdominal Surgery		Lower Abdominal Surgery	
			Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>
Fasth et al., 1980 (19)	153	2							2	153
Warren and Grimwood, 1980 (20)	194	42	42	194			42	194		
Buckwalter and Herbst, 1983 (24)	565	3	3	565						
Diehl et al., 1983 (23)	557	33								
Seymour and Pringle, 1983 (22)	258	102	53	111			32	64	21	47
Wirén and Janzon, 1983 (21)	52	28	28	52			28	52		
Fasth et al., 1987 (30)	92	5	5	92					5	92
Fogh et al., 1987 (28)	125	23	23	125						
Matsumata et al., 1987 (27)	80	40	40	80			40	80		
Hollier et al., 1988 (31)	101	33	154	270						
Jørgensen et al., 1988 (33)	259	47	47	259						
Mellors et al., 1988 (36)	434	4	4	434						
Poe et al., 1988 (32)	209	31	31	209	9	58	31	209		
Tartter, 1988 (35)	343	6	3	343					6	343
Ejlertsen et al., 1989 (39)	130	11	11	130			11	130		
Nielsen et al., 1989 (38)	128	89	89	128			89	128		
Seymour and Vaz, 1989 (41)	288	40	73	129			45	70	28	59
Vodinh et al., 1989 (40)	151	56								
Arriaga et al., 1990 (45)	414	74								
Koness et al., 1990 (42)	109	16	16	109						
Hall et al., 1991 (47)	1000	232	232	1000			161	439	81	477
Pinto et al., 1991 (46)	196	18	18	196			18	196		
Braga et al., 1992 (54)	285	8	8	285						
Dilworth et al., 1991 (51)	127	26	23	127	14	44	26	127		
Evaldson et al., 1992 (55)	2361	8	8	2361					8	2361
Katz et al., 1992 (49)	64	24								
Kispert et al., 1992 (52)	147	19								
Brooks-Brunn, 1992 (53)	263	54	54	263			54	263		
Kroenke et al., 1992 (50)	107	34	11	16			4	8		
Calligaro et al., 1993 (60)	181	97								
Ephgrave et al., 1993 (59)	140	26	5	66						
Heiss et al., 1993 (61)	120	3	3	120					3	120
Jayr et al., 1993 (57)	51	12								
Weber et al., 1993 (62)	225	22								
Charash et al., 1994 (64)	138	33								
Gefke et al., 1994 (65)	553	77								
Money et al., 1994 (63)	90	19								
Gilling-Smith et al., 1995 (69)	130	49								
Lawrence et al., 1995 (67)	2291	82	82	2291						
Liedman et al., 1995 (70)	213	62	32	132			32	132		
Wong et al., 1995 (108)	105	39	25	36					25	36

Appendix Table 7—Continued

Aortic or Intra-Abdominal Vascular		Head and Neck		Esophageal		Hip		Urologic or Gynecologic	
Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>
33	557								
33	101								
39	70								
		74	414						
24	64							8	2361
15	67								
1	3	3	11			3	6	2	20
97	181								
7	36	9	28						
12	51								
		22	225						
						33	138		
77	553								
19	90								
49	130								
				30	81				

Appendix Table 7—Continued

Author, Year (Reference)	Patients, <i>n</i>	PPCs, <i>n</i>	Any Abdominal Surgery		Vertical Abdominal Incision		Upper Abdominal Surgery		Lower Abdominal Surgery	
			Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>
Hall et al., 1996 (72)	95	12	10	58			10	58		
Kocabas et al., 1996 (73)	60	21	21	60	18	48	21	60		
Rose et al., 1996 (76)	15 059	41	12	2700						
Delgado-Rodríguez et al., 1997 (78)	1483	19	19	1187			13	350		
Ferguson et al., 1997 (77)	269	125								
Gillinov and Heitmiller, 1998 (80)	101	11								
Kuwano et al., 1998 (81)	178	23								
Carson et al., 1999 (87)	9598	337								
Midorikawa et al., 1999 (82)	277	82	82	277			82	277		
Brooks-Brunn, 2000 (89)	120	13	120	13	8	37			13	120
Oñate-Ocaña et al., 2000 (90)	208	8	8	208			8	208		
Yamashita et al., 2000 (91)	367	7	7	367						
Kinugasa et al., 2001 (95)	246	54								
Griffin et al., 2002 (98)	228	39								
Lawrence et al., 2002 (2)	8930	344								

* PPC = postoperative pulmonary complication.

Appendix Table 7—Continued

Aortic or Intra-Abdominal Vascular		Head and Neck		Esophageal		Hip		Urologic or Gynecologic	
Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>	Patients with PPC, <i>n</i>	Patients, <i>n</i>
				125	269				
				11	101				
				23	178				
						337	9598		
				54	246				
				39	228				
						344	8930		