

**Supplementary Table 1 Intrabdominal drainage *vs* no drainage *vs* selective drainage for pancreaticoduodenectomy and distal pancreatectomy, n (%)**

N o.	Ref.	Typ e of stud y	Countr y	Proc edu re y	No of patie nts	Dra in n	No drai n	Patholo gy	Postoperati ve	Delayed	Bile leak	Postop haemorrhage			
1	Conlon <i>et al</i> [7], 2001	RCT	United States	PD+ DP	179	88	91	47/132	11 (12.5)	0 (3.4)	3 (5.5)	NP (3.4)	NP (2.3)	4 (4.4)	
2	Van Buren <i>et al</i> [10], 2011- 2012	RCT	United States	PD	137	68	69	42/95	21 (31)	14 (20)	16 (24)	26 (38)	3 (4) (1)	1 (1) (9)	10 (15)
3	McMilla <i>n et al</i> [18],	RCT	United States	PD	137	68	69	42/95	21 (30.9)	14 (20.3 )	NP (20.3 )	NP (20.3 )	NP (20.3 )	NP (20.3 )	NP (20.3 )



2012	e														
8	Brubaker <i>et al</i> [22], 2003- 2020	Retr ospe ctiv e	United States	PD	2895	274	146	2055/22	328	49	NP	NP	NP	NP	
						9		37		(11.9)	(33.6)				
										)					
9	Behrman <i>et al</i> [6], 2011- 2012	Retr ospe ctiv e	United States	DP	761	116	116	79/153	25	8 (7) (21.7)	NP	NP	NP	NP	
										0)					
10	Correa- Gallego <i>et al</i> [8], 2006- 2011	Retr ospe ctiv e	United States	PD+ DP	1122	553	569	664/458	149	102	8 (1) (27)	9 (2) (18)	NP	NP	
													18 (3)	15 (3)	
11	Fisher <i>et al</i> [16], 2004- 2009	Retr ospe ctiv e	United States	PD+ DP	226	179	47	89/113	79	5 (44)	43 (11)	4 (9) (24)	1 (1)	0 (0)	3 (2)
														0 (0)	

12	Lim	<i>et</i>	Retr	France	PD	54	27	27	14/40	6 (22)	0	3	4 (15)	0	0	2 (7)	2 (7)	
	<i>al</i> [23],		ospe									(11)						
	2009-		ctiv															
	2011		e															
13	Heslin	<i>et</i>	Retr	United	PD	89	51	38	11/78	3	1	NP	NP	NP	NP	1 (1.9)	0	
	<i>al</i> [24],		ospe	States						(5.8)	(2.6)							
	1994-		ctiv															
	1996		e															
14	Mehta	<i>et</i>	Retr	United	PD	709	251	458	87/451	61	48	NP	NP	NP	NP	NP	NP	
	<i>al</i> [25],		ospe	States						(24.3)	(10.5							
	2005-		ctiv							)								
	2012		e															
15	Paulus	<i>et</i>	Retr	United	DP	69	39	30	17/52	6	0	NP	NP	NP	NP	NP	NP	
	<i>al</i> [9],		ospe	States						(15.3)								
	1997-		ctiv															
	2011		e															
16	Zaghal	<i>et</i>	Pros	United	PD	6858	599	861	399/645	1151	85	105	114	NP	NP	1261 (21)	126	
	<i>al</i> [26],		pect	States			7		9		(19.4)	(9.9)	5	(13.75			(14.6)	
	2014-		ive								(18.	)						

2015

1)

17	Jeekel[17]	Pilo	Nether	PD	36	14	22	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	], 1989-	t	lands														
	1991	stud															
		y															
18	Kunstma	Retr	United	PD	106	53	53	31/75	12	4	12	10	1 (1.9)	1 (1.9)	NP	NP	
n	et	ospe	States						(22.6)	(7.5)	(22.	(18.9)					
	al[27],	ctiv											6)				
	2003-	e															
	2007																
19	Mangieri	Retr	United	DP	1158	985	173	NP	191	12	NP	NP	NP	NP	35 (3.6)	6 (3.5)	
et	al[29],	ospe	States						(19.4)	(6.9)							
	2014	ctiv															
		e															
20	El	Retr	United	DP+	5013	434	670	1479/35	841	53	516	63 (9)	NP	NP	NP	NP	
Khoury	ospe	States	PD		3			34		(20)	(8)	(12)					
et	al[28],	ctiv															

2014	e														
21	Nickel <i>et al</i> [30], 2017-	Retr ospe ctiv	Germa ny	PD+ DP	589 (befo re	397 NP	80 (20.1)	24 (12.5)	30 (7.5)	8 (4.2) 10 (2.5)	6 (3.1) 28 (7)			7 (3.6)	
2018	e			matc hing)					)						
				378 (after matc hing)	189 NP	39 (20.6)	23 (12.2)	13 (6.8)	8 (4.2) 6 (3.2)	6 (3.2) 5 (2.6)	12 (6.3) 7 (3.7)				
22	Van Bodegra ven <i>et al</i> [31], 2010-	Retr ospe ctiv	Nether lands	DP	963	805 NP	182 (22.6)	7 (4.4)	21 (2.6)	0	NP	NP	65 (8.1)	4 (2.5)	
	2019														

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**Supplementary Table 1 Intrabdominal drainage vs no drainage vs selective drainage for pancreaticoduodenectomy and distal pancreatectomy, n (%) (Continued Supplementary Table 1)**

No.	Ref.	Intraabdo	Wound	Need	for	Re-	Re-	Clavien	Mean	Overall	Mortality								
		minal	infection	intervention	exploratio	n	admission	dindo	hospi	morbidity	at 30 days								
		D	ND	D	ND	D	ND	D	ND	D	N	D	N	D	ND				
1	Conlon <i>et al</i> [7], 2001	6	6	11(12.6)	9(9.9)	11	7 (8)	8 (9)	4 (4)	NP	NP	55	52	9	66	57	2	2 (2)	
		(6.8)	(6.6)	5			(13)					(63)	(57)		(75)	(63)	(2)	)	
2	Van Buren <i>et al</i> [10], 2011-2012	7	17	6 (9)	10	NP	NP	2 (3)	6 (9)	16	12	19	28	7	8	50	52	0	4 (6)
		(10)	(25)		(15)					(24)	(17)	(28)	(41)			(74)	(75)		)
3	McMillan <i>et al</i> [18], 2011-2012	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	8.	14	NP	NP	N	NP
														8			P		
4	Van Buren <i>et al</i> [19], 2011-2016	16	13	8 (5)	5 (3)	74	74	9 (5)	6 (4)	41	37	51	44	5	5	96	93	0	0
		(9)	(8)			(43)	(44)			(24)	(22)	(29)	(26)			(55)	(55)		)

5	Witzigman	13	7	27	28	43	32	31	22	NP	NP	NP	NP	1	18.	127	115	6	6
	<i>n et al</i> [20],	(6.5)	(3.6)	(13.4)	(14.5)	(21.3)	(16.6)	(15.)	(11.)					9	1	(63.)	(59)	(3.)	(3.1)
	2007-2015							4)	4)						2)	.6)	0)		
6	Addison <i>et al</i> [21],	NP	NP	987	158	NP	NP	344	53	1103	153	1493	269	8	7	2119	358	84	19
	2015-2016			(14.8)	(17.2)			(5.1)	(5.7)	(16.)	(16.)	(22.4)	(29.)			(31.)	(39)	(1.)	(2.07)
7	Adham <i>et al</i> [4],	16	15	NP	NP	19	23	NP	NP	NP	NP	38	48	1	17.	83	45	N	NP
	2005-	(12)	(13.)			(14.6)	(20.5)					(29.4)	(42.)	6.	8	(64)	(67)	P	
	2012		4)									9)	2		)				
8	Brubaker <i>et al</i> [22],	NP	NP	NP	NP	NP	NP	92	21	NP	NP	505	78	7.	10	1568	108	N	NP
	2003-2020							(3.3)	(14.)			(18.4)	(53.)	5		(57)	(74)	P	)
9	Behrman <i>et al</i> [6],	NP	NP	NP	NP	NP	NP	1 (1)	3	NP	NP	49	35	N	NP	80	55	N	NP
	2011-									(2.7)		(42.2)	(30.)	P		(68.)	(47)	P	
	2012								0)			2)		9)	.4)				
10	Correa-Gallego <i>et al</i> [8],	NA	NA	11 (2)	5 (1)	103	83	3 (1)	2 (1)	NP	NP	185	150	7.	6	301	272	6	12
	2006-					(19.4)	(15.1)					(33)	(26)	5		(54)	(48)	(1.)	(2.18)
	2011													)	13)				

11	Fisher	<i>et al</i>	10	2 (4)	22	1 (2)	4 (2)	5	8 (4)	0 (0)	17	8	38	7	7	117	22	1	1 (1)	
			(6)		(12)			(11)			(9)	(17)	(21)	(15)		(65)	(47	(1)		
															)					
2004-2009																				
12	Lim	<i>et al</i>	1	1	2 (7)	1	1	1	2 (7)	1	0	1	5 (19)	2	1	10	19	15	1	1
			(3.7)	(3.7)		(3.7)	(3.7)	(3.7)		(3.7)		(3.7)		(7.4)	5	(70)	(56	(3.	(3.7)	
															)	7)				
2009-2011																				
13	Heslin	<i>et al</i>	3(5.	0	NP	NP	2	1	1	3	NP	NP	14	8	1	12	23	15	N	NP
			8)				(3.9)	(2.6)	(1.9)	(7.8)			(27.4)	(21)	2	(45)	(39	P		
															.4)					
1994-1996																				
14	Mehta	<i>et al</i>	NP	NP	NP	NP	NP	NP	14	26	44	75	62	75	1	11.	171	248	5	11
									(5.6)	(5.7)	(17.	(16.	(36.3)	(30.	3.	3	(68.	(54	(2)	(2.5)
											5)	8)		2)	8	1)	.1)			
2005-2012																				
15	Paulus	<i>et al</i>	8	7	NP	NP	15	13	11	8	NP	NP	NP	NP	N	NP	15	20	N	NP
			1997-	(20.	(23.		(56.5)	(43.3)	(28.	(26.					P	(50)	(51	P		
									2)	7)						.3)				
2011				5)	3)															
16	Zaghali	<i>et al</i>	NP	NP	NP	NP	NP	NP	317	43	954	135	NP	NP	N	NP	2969	355	10	25
									(5.3)	(5.0)	(15.	(15.			P	(49.	(41	4	(2.9)	
											9)	7)				5)	.2)	(1.		
2014-2015																7)				

17	Jeekel[17], 1989-1991	3	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	1	NP	NP	NP	N	NP
18	Kunstman <i>et al</i> [27], 2003-2007	3	1	NP	NP	3	5	2	3	11	13	11	9	7	7	44	38	0	1
19	Mangieri <i>et al</i> [29], 2014	NP	NP	NP	NP	92	14	27	5	175	18	55	11	5	5	198	41	5	1 (1)
20	El Khoury <i>et al</i> [28], 2014	NP	NP	NP	NP	NP	NP	217	44	749	94	NP	NP	1	9.9	NP	NP	53	19 (3)
21	Nickel <i>et al</i> [30], 2017-2018	NP	NP	NP	NP	69	17	50	13	14	1 (1)	159	53	1	14.	NP	NP	12	1 (1)
		NP	NP	NP	NP	34	16	22	13	8	1 (1)	80	51	1	14.	NP	NP	5	1 (1)

22 Van Bodegrave *et al*[31], 2010-2019 (0.9)

DP: Distal pancreatectomy; NA: Not applicable; NP: Not provided; RCT: Randomised controlled trial; PD: Pancreaticoduodenectomy; ND; D:

**Supplementary Table 2 Active suction vs passive gravity drainage for pancreaticoduodenectomy and distal pancreatectomy, n (%)**

No.	Ref.	Type of study	Country	Procedure	No of patients	Active (suction)	Passive (gravity)	Sex	Postoperative		Delayed		Bile leak	
									pancreatic fistula	gastric emptying	CSD	GD	CSD	GD
1	Lee <i>et al</i> [32], 2004-2006	RCT	South Korea	PD	110	55	55	62/48	14 (25.5)	24 (43.6)	10 (18.2)	16 (29.1)	2 (3.6)	2 (3.6)

2	Jiang	<i>et al</i>	RCT	China	PD	160	82	78	118/42	9 (11.0)	11 (14.1)	2 (2.4)	3 (3.8)	3 (3.7)	2 (2.6)
3	Čečka	<i>et al</i>	RCT	Czech Republic	PD + DP	61 + 161	30 + 81	31 + 80	109/113	24 (30)	31 (39)	NP	NP	NP	NP
4	Schmidt	<i>et al</i>	Retrospective	United States	PD	510	269	241	284/226	38 (14)	8 (3)	NP	NP	NP	NP
5	Aumont	<i>et al</i>	Retrospective	France	PD	197	65	132	108/89	32 (47.7)	43 (32.65)	NP	NP	NP	NP
6	Marchegiani	Retrospective	Italy		PD + DP	320	131	189	167/153	23 (17.5)	39 (20.6)	NP	NP	4 (3)	9 (4.7)
		<i>et al</i>	[36],												
7	Lemke	<i>et al</i>	Retrospective	Canada	PD	3430	2867	563	1843/1587	532 (18.6)	98 (17.4)	501 (17.5)	77 (13.7)	NP	NP
8	O'Grady	<i>et al</i>	Retrospective	United States	PD + DP	629	588	41	313/316	125 (27.6)	NP	NP	NP	NP	NP

2020

9	Kone	<i>et al</i> [40], 2016-	Retrospective	United States	PD + DP	9232	7887	1345	4712/4520	336	2366	NP	NP	NP	NP
10	Hall	<i>et al</i> [39], 2016-	Prospective	United States	PD	9665	8441	1224	5176/4489	1389	168	1403	171	NP	NP
										(16.5)	(13.7)	(16.6)	(14.0)		

**Supplementary Table 2 Active suction *vs* passive gravity drainage for pancreaticoduodenectomy and distal pancreatectomy, *n* (%) (Continued Supplementary Table 2)**

N o.	Ref.	Post	op	Intra-	Wound		Need	of	Re-	Readmissi		Clavien	Mean	Overall		Mortality	at				
		haemorrha	abdominal	infection	interventio	n	exploratio	ons	dindo	hospital	morbidity	day 30									
		ge	abscess	n	n	stay															
		CS	GD	CS	GD	CS	GD	CS	GD	CS	GD	CS	GD	CS	GD	CS	GD				
		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D				
1	Lee <i>et al</i> [32], 2004-2006	NP	NP	NP	NP	3 (5)	5 (9.1)	NP	NP	0 (5.5)	0 (9.1)	NP	NP	NP	NP	24.8 (52.7)	28.5 (63.6)				
2	Jiang <i>et al</i> [33], 2010-2015	1 (1.2)	1 (1.3)	0 (2.6)	2 (6.1)	5 (8.8)	7 (8.8)	NP	NP	NP	NP	NP	NP	12.6 ± 4.4	14.5 ± 6.7	18 (22.0)	25 (32.1)	1 (1.2)			
3	Čečka <i>et al</i> [34], 2013-2016	9 (11)	15 (19)	NP (9)	NP (10)	7 (9)	8 (10)	0 (9)	0 (10)	7 (9) (16)	5 (6) (18)	5 (6) (18)	5 (6) (18)	13 (18)	14 (18)	12 (18)	12 (18)	35 (43)	44 (55)	3 (4) (43)	3 (4) (55)

4	Schmidt	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	<i>et al[41],</i>																		
	1980-																		
	2002																		
5	Aumont	6	12	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	26	50	31 ±	28 ±	46	94
	<i>et al[35],</i>	(9.2)	(9)											(40)	(37.	48	18	(70.	(71.
	2012-													9)		8)	2)	(12.	(15.2)
	2015																	3)	
6	Marche	9	12	NP	NP	10	17	7	13	NP	NP	9	10	NP	NP	10.6	12.2	84	120
	giani	<i>et</i>	(6.8)	(6.3)			(7.6)	(9)	(5.3)	(6.9)			(6.8)	(5.3)					(64.
	<i>al[36],</i>						5)											(63.	(4.5)
	2012-																	1)	4)
	2015																		
7	Lemke	NP	NP	NP	NP	657	97	NP	NP	141	29	NP	NP	NP	NP	NP	NP	NP	45
	<i>et al[37],</i>					(22.	(17.			(4.9)	(5.2)								8 (1.4)
	2016					9%)	2)												(1.6)
8	O'Grad	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	9	7	NP	NP
	y	<i>et</i>																NP	NP
	<i>al[38],</i>																		

2013-

2020

9 Kone *et al*[40],

2016-

2017

10 Hall *et al*[39],

2016-

2018

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DP: Distal pancreatectomy; NP: Not provided; RCT: Randomised controlled trial; PD: Pancreaticoduodenectomy; CSD: Closed-suction drain; **GD:**

**Supplementary Table 3 Early drain removal vs late drain removal for pancreaticoduodenectomy and distal pancreatectomy, n (%)**

No.	Ref.	Type	Coun	Proc	Drain	Early	Late	Male/	Pathology	postoperativ	Delayed	Bile leak	Postop				
		of study	try	edu	removal	removal	remov	femal	benign/mali	e	pancreatic	gastric	haemorr				
		re	(day)			al	e	gnant		fistula							
1	Bassi <i>et al</i> [42], 2008-2009	RCT	Italy	PD	3	57	57	59/55	44/70	1 (1.8) (26)	15 (3.5)	2 (5.3)	NP )	NP )	0 )	1 )	
2	McMilla <i>et al</i> [43], 2008-2009	RCT	United States	PD	3	38	37	43/32	NP	1 (2.6) (32. 4)	12 (4)	NP )	NP )	0 )	2 )	NP )	NP )
3	Dembin <i>et al</i> [44], 2011-2015	RCT	France	PD	3	71	70	54/87	94/47	3 (4.2) (12. 8)	9 (14. 5)	11 (28. 6)	20 (5.7 ))	0 (2.9 ))	4 (2.8 ))	2 (2.8 ))	2 (2.8 ))

4	Dai <i>et al</i> [45], 2014- 2018	RCT	Chin a	PD +	3	72	72	79/65 195/1 17	54/90 NP NP	2 6 (3.8) (6.4)	0 10 (10. 9)	2 17 (7.7) 12 9)	5 (6.9) 4) 8)	NP NP NP NP	NP NP NP NP	0 (2.7) 8) 5)	2 8) 5)	
5	Dai <i>et al</i> [46], 2017- 2020	RCT	Chin a	PD	3	156	156	195/1 17	NP	6 (3.8) (6.4)	10 (10. 9)	17 (7.7) 12 9)	12 (7.7) 6 5)	NP NP NP NP	NP NP NP NP	6 (3.8) 5 )	5 )	
6	Balzano <i>et al</i> [47], 1996- 2004	Retro specti ve	Italy	DP	> 5	NP	123	52/71 27	106/17 NP	0 1 (1)	42 9 (8)	0 11	0 11	0 NP	0 NP	0 NP	0 NP	0 0)
7	Beane <i>et al</i> [48], 2019	Retro specti ve	Unite d States	PD	≤ 3	116	116	105/1 27	NP	1 (1) 9 (8)	9 (8) (9.5)	11 (9.5)	11 )	NP NP	NP NP	NP NP	NP NP	NP NP
8	Ven Fong <i>et al</i> [49], 2009-	Retro specti ve	Unite d States	PD	3	229	140	186/1 83	NP	2 (1) (31. 4)	44 (9)	20 (6.4)	9 4)	NP NP	NP NP	3 (2.1)	10 )	10 )

2012

9	Xourafa <i>s</i>	Retro <i>et</i>	Unite specti	PD	3	273	548	300/5 21	NP	4 (1) (6)	33 (7)	20 (12)	68	NP	NP	NP	NP
<i>al[50], ve States</i>																	
2014-																	
2016																	
10	Villafan <i>e-Ferriol</i>	Prosp ective	Unite d	PD	< 5	90	154	113/1 31	NP	0	2 (1) (3)	3 (18)	27 (1)	0 (1)	2 (1)	1 (1)	1
<i>et al[13], States DP</i>																	
2006-																	
2016																	
11	Kawai <i>et al[51]</i> , elective	Prosp	Japan	PD	4	52	52	57/47 24/80		2 (3.84)	12 (23)	12 (23)	17 (32.7)	2 (3.84)	3 (5.84)	0 )	2 (3.84)
2002-																	
2004																	
12	Seykora <i>et al[52]</i> ,	Retro specti	Unite d	DP	$\leq 3$	716	3992	2111/ 2597	NP	26 (3.6)	857 (21.2)	13 (2)	192 (5)	NP	NP	NP	NP
<i>ve States</i>																	
2017																	

13	Adachi	Prosp	Japan	DP	1	41	30	37/34	NP	0	5	NP	NP	NP	NP	NP	NP
	<i>et al</i> [53],	ective									(16)						
	2005-																
	2009																
14	Linnem	Retro	Neth	PD	$\leq 3$	219	789	779/6	NP	13 (6)	121	53	177	NP	NP	5	42
	ann	<i>et</i>	specti	erlan	+			23			(15)	(24)	(22)			(2)	(5)
	<i>al</i> [54],	ve	ds	DP													
	2014-																
	2016																
15	Sakamo	Retro	Japan	DP	< 5	19	38	38/19	NP	2	15	NP	NP	NP	NP	NP	NP
	to	<i>et</i>	specti							(10.5)	(39.						
	<i>al</i> [55],	ve									5)						
	2010-																
	2019																
16	Yoon	<i>et</i>	Retro	Kore	PD	3	91	359	253/1	NP	38	216	NP	NP	NP	NP	NP
	<i>al</i> [56],	specti	a					97			(41.8)	(60.					
	2018-	ve									2)						
	2020																

**Supplementary Table 3 Early drain removal vs late drain removal for pancreaticoduodenectomy and distal pancreatectomy, n (%) (Continued Supplementary Table 3)**

No.	Ref.	Intraabdominal abscess		Wound infection		Need of intervention		Re-exploration		Readmission		Clavien dindo		Mean hospital stay		Overall morbidity		Mortality at 30 days	
		ED	LD	ED	LD	ED	LD	ED	LD	ED	LD	ED	LD	ED	LD	ED	LD	ED	LD
1	Bassi <i>et al</i> [42], 2008-2009	NP	NP	NP	NP	NP	NP	NP	NP	0	5	NP	NP	8.7	11.8	22	35	0	0
2	McMillan <i>et al</i> [43], 2008-2009	NP	NP	NP	NP	NP	NP	NP	NP	0	5	NP	NP	9.3	13.9	13	28	0	0
3	Dembinski <i>et al</i> [44], 2011-2015	NP	NP	10 (14.1)	17 (24.3)	NP	NP	5 (7) (8.6)	6 (2.8)	2 (1.4)	1 (1.4)	10 (14.1)	15 (21.4)	17.8	21.0	NP	NP	1 (1.4)	1 (1.4)
4	Dai <i>et al</i> [45], 2014-2018	3 (4.17)	2 (2.78) (1.39)	1 (1.39)	0	3 (4.17)	3 (4.17)	1 (1.39)	1 (1.39)	3 (4.17)	4 (5.56)	5 (6.94)	15 (20.83)	12.72 ±	13.61 ±	10 (11.1)	22 (30.56)	0	0
														8.04	8.61				

5	Dai	<i>et al</i>	8 (5.1)	6 (3.8)	4	5	11	6	1	0	5	2	32	41	15	16	46	49	0	0
					(2.6)	(3.2)	(7.1)	(3.8)	(0.6)		(3.2)	(1.3)	(20.5)	(26.3)			(29.5)	(31.4)		
6	Balzano	<i>et al</i>	0	6 (4.5)	0	9	NP	NP	0	5	NP	NP	NP	NP	0	11.8	0	60	0	0
						(7.3)				(4.1)						± 6			(48.8)	
7	Beane	<i>et al</i>	NP	NP	2 (2)	1 (1)	NP	NP	NP	NP	16	16	11(9.5)	19	6	8	41	61	3	3
											(13.8)	(13.8)		(16.4)			(35.3)	(52.3)	(2.6)	(2.6)
8	Ven Fong	16 (7)	10 (7)	NP	NP	11 (5)	9	7	2	38	36	35	26	7	7	91	60	1	2	
	<i>et al</i>						(6.4)	(3.2)	(1.4)	(17.1)	(25.7)	(17.9)	(20.5)			(46.7)	(47.2)	(0.6)	(1.6)	
9	Xourafas	<i>et al</i>	NP	NP	19 (7)	38 (7)	NP	NP	8 (3)	23 (4)	33	77	22 (8)	76 (14)	6	8	76	224	6 (2)	7 (1)
											(12)	(14)					(28)	(41)		
10	Villafane- Ferriol	<i>et al</i>	2 (2)	12 (8)	5 (6)	10 (6)	NP	NP	0	1	15	35	NP	NP	5	7	30	84 (55)	1 (1)	0
										(0.6)	(17)	(23)					(33)			
11	Kawai	<i>et al</i>	3 (5.8)	10	1 (2)	0	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	0	1 (2)

DP: Distal pancreatectomy; ED: Early drain removal; LD: Late drain removal; NP: Not provided; PD: Pancreaticoduodenectomy; RCT: Randomised controlled trial.