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Table 1. Patient Demographics		Patients with DIEP flap Breast Reconstruction		
		Unilateral (N=371)	**Bilateral (N=97)**	**p-value**
Mean Age (SD)		56.7 (9.27)	51.7 (9.11)	<0.001
Mean BMI (SD) [Range]		26.4 (3.00) [19-34]	27.1 (3.46) [20-37]	0.081
Smoking History (%)		61 (16.4)	12 (12.4)	0.115
Lower Abdominal Scars (%)		97 (26.1)	36 (37.1)	0.058
Parity (%)	Nulliparous	32 (8.60)	9 (9.3)	0.121
	Primiparous	47 (12.7)	20 (20.6)	
	Multiparous	292 (78.7)	68 (70.1)	
Family History of Breast Cancer (%)	None	319 (86.0)	66 (68.0)	<0.001
	1st Degree Relative	28 (7.50)	24 (24.8)	
	2nd Degree Relative	24 (6.50)	7 (7.2)	
Mastectomy Histology (%)	Normal Breast Tissue	3 (0.80)	12 (12.4)	<0.001
	Carcinoma In-Situ	113 (30.5)	45 (46.4)	
	Invasive Carcinoma	254 (68.5)	40 (41.2)	
	Indeterminate Neoplasm	1 (0.20)	0 (0)	
Oncological Treatment (%)	Neoadjuvant Chemotherapy	31 (8.40)	15 (15.5)	0.053
	Adjuvant Chemotherapy	211 (56.9)	46 (47.4)	0.108
	Adjuvant Radiotherapy	188 (50.7)	46 (47.4)	0.648
	Adjuvant Hormone Therapy	226 (71.7)	49 (50.5)	<0.001
Breast Reconstruction Timing (%)	Immediate	120 (32.3)	46 (47.4)	0.006
	Delayed	251 (67.7)	51 (52.6)	
Mean Operative Time In Hours And Minutes (SD)		6:02 (1:26)	8:06 (1:49)	<0.001

Median Mastectomy Weight In Grams Per Flap (IQR)	645 (462 - 858)	699 (459 - 884)	0.943
Mean DIEP Flap Weight In Grams Per Flap (SD)	634 (189)	589 (203)	0.044
Median Ischaemia Time In Minutes Per Flap (IQR)	31.5 (25.0 - 41.0)	30.0 (24.5 - 37.5)	0.091
Median Days In Hospital (IQR)	6 (5 - 7)	7 (5 - 9)	0.002

Table 1. Baseline characteristics and operative variables for women undergoing unilateral versus bilateral DIEP flap breast reconstruction.

Table 2. Peri-Operative Outcomes		Patients Undergoing DIEP Flap Breast Reconstruction				
		Unilateral (N=371)	**Bilateral (N=97)**	**p-value**	**RR**	**95% CI**
Any Peri-Operative Complication(s) Requiring Return To Theatre (%)		41 (11.1)	23 (23.7)	0.002	2.1	1.4, 3.4
Peri-Operative Complications Requiring Return To Theatre (%)	Breast Haematoma	13 (3.50)	7 (7.22)	0.153	2.1	0.8, 5.0
	Venous Congestion of a Flap	10 (2.70)	8 (8.25)	0.011	3.1	1.2, 7.5
	Ischaemia of a Flap	6 (1.62)	2 (2.06)	0.673	1.3	0.3, 6.2
	Breast Envelope Skin Necrosis	4 (1.08)	1 (1.03)	1.000	0.9	0.1, 8.3
	Umbilical Stalk Necrosis	2 (0.54)	1 (1.03)	0.595	1.9	0.2, 20
	Infected Breast Seroma Or Haematoma	2 (0.54)	1 (1.03)	0.503	1.9	0.2, 20
	Abdominal Wall Haematoma	2 (0.54)	0 (0)	0.858	-	-
Operative Outcome (%)	Partial Flap Loss	11 (2.96)	2 (2.06)	0.747	0.7	0.2, 3.0
	Total Flap Loss	3 (0.81)	5 (5.15)	0.011	6.4	1.6, 26

Table 2. Post-operative complications for women undergoing unilateral versus bilateral DIEP flap breast reconstruction.

Table 3. Revision Surgery		Patients Undergoing DIEP Flap Breast Reconstruction				
		Unilateral (N=371)	**Bilateral (N=97)**	**p-value**	**RR**	**95% CI**
Cumulative Need For Revision Breast Surgery (%)		88 (23.7)	30 (30.9)	0.189	1.3	0.9, 1.8
Revision Breast Surgery (%)	Revision Reconstruction For Total Flap Failure	3 (0.81)	4 (4.12)	0.037	5.1	1.2, 22
	Revision NAC reconstruction	3 (0.81)	0 (0)	1.000	-	-
	Liposuction or Lipofilling	43 (11.6)	10 (10.3)	0.726	0.9	0.5, 1.7
	Flap Remodelling	21 (5.66)	6 (6.19)	1.000	1.1	0.4, 2.6
	Excision of Fat Necrosis	5 (1.35)	1 (1.03)	1.000	0.8	0.1, 6.5
	Scar Revision	22 (5.93)	10 (10.3)	0.172	1.7	0.9, 3.5
	Skin Graft	2 (0.54)	1 (1.03)	0.503	1.9	0.2, 20
Cumulative Need For Revision Abdominal Surgery (%)		24 (6.47)	11 (11.3)	0.127	0.2	0.0, 1.3
Revision Abdominal Surgery (%)	Delayed Closure	2 (0.54)	1 (1.03)	0.595	1.9	0.2, 20
	Scar Revision	13 (0.12)	5 (5.15)	0.377	1.5	0.5, 4.0
	Bulge / Hernia Repair	2 (0.54)	0 (0)	1.000	-	-

Table 3. Revision breast and abdominal surgeries for women undergoing DIEP flap breast reconstruction.