

1. Participant Flow

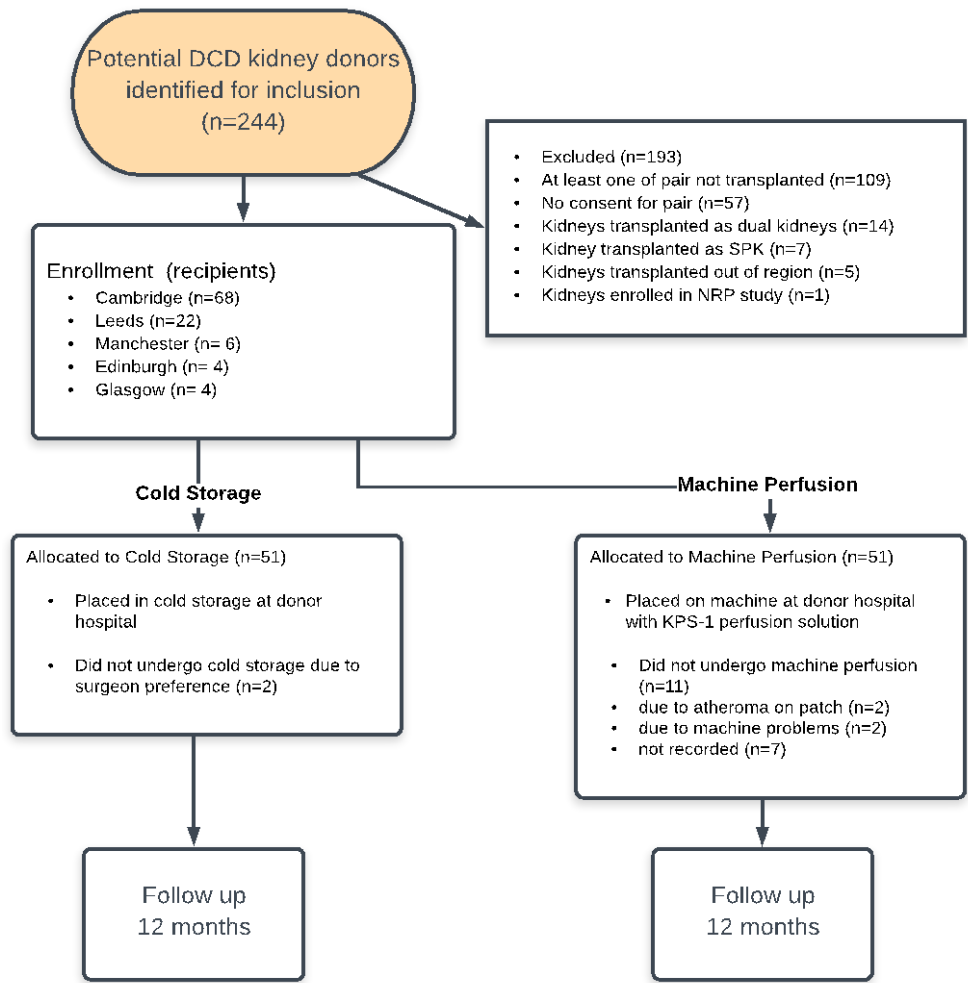


Figure 1 - Flow chart of trial

2. Baseline Characteristics

	Cold Storage N=51	Machine Perfusion N=51	p
Recipient age	57 (46-65)	58 (49-66)	0.38
Sex (% Male)	31/51 (60.8%)	33/51 (64.7%)	0.68
Ethnicity (% White)	43/51 (84.3%)	50/51 (98.0%)	0.06
Bmi	26.7 (24.5-28.4)	26.0 (23.1-30.6)	0.97
Dialysis type			0.76
Haemodialysis	32/51 (62.8%)	34/51 (66.7%)	
Peritoneal	7/51 (13.7%)	8/51 (15.7%)	
None	12/51 (23.5%)	9/51 (17.7%)	
Previous Transplants (% first)	48/51 (94.1%)	45/51 (88.2%)	0.30
HLA Match (-A -B -DR)			0.35
Level 1 (000)	0/51 (0%)	1/51 (2.0%)	
Level 2/3	35/51 (68.6%)	38/51 (74.5%)	
Level 4 (MM2DR or 1DR 2B)	16/51 (31.4%)	12/51 (23.5%)	
Sensitisation (%cRF)	0 (0-24)	0 (0-28)	0.74
Cause of renal disease			0.29
Glomerulonephritis	6/51 (11.8%)	7/51 (13.7%)	
Pyelonephritis/reflux	2/51 (3.9%)	7/51 (13.7%)	
Polycystic Kidney Disease	5/51 (9.8%)	8/51 (15.7%)	
Diabetes Mellitus	7/51 (13.7%)	6/51 (11.8%)	
Other/Unknown	31/51 (60.8%)	23/51 (45.1%)	
Cold Ischemic Time (Hrs)	13.7 (10.5-16.3)	13.9 (11.4-17.1)	0.98
Induction Agent			0.30
Basiliximab	31/51 (61%)	36/51 (70.6%)	
Alemtuzumab	20/51 (39%)	15/51 (29.4%)	
Perfusion fluid			
KPS-1		40 (78.4%)	
UW	45 (88.2%)	9 (17.7%)	
Marshall's	4 (7.8%)	1 (2.0%)	
Other	2 (3.9%)	1 (2.0%)	

Table 1 - Recipient characteristics

3. Outcome Measures

	Cold Storage	Machine Perfusion	p
Delayed graft function	32/51 (62.8%)	30/51 (58.8%)	0.69

Table 2 - Primary endpoints

	Cold Storage	Machine Perfusion	p
Slow Graft function	41/51 (80.4%)	39/51 (76.5%)	0.63
Dgf excluding pre-dialysis	26/39 (66.7%)	28/42 (66.7%)	1.00
Dialysis free at 28 days	45/51 (88.2%)	43/51 (86.3%)	0.77
Primary non-function	3/51 (5.9%)	2/51 (3.9%)	0.65
Length of Stay (days)	10 (IQR 7-16)	9 (IQR 6-14)	0.23
Day 7 Creatinine (µmol/L)	548 (IQR 381-646)	428 (IQR 278-680)	0.22
Day 7 eGfr (ml/min)	9.3 (IQR 7.2-12.9)	12.7 (IQR 7.7-21.2)	0.22
3 month eGfr (ml/min)	33.6 (IQR 26-44)	44.8 (IQR 36-60)	0.006
12 month eGfr (ml/min)	44.1 (IQR 34-55)	46.8 (IQR 37-63)	0.2
Death Censored Graft Survival – 1 year	92.0%	96.0%	0.38
Patient Survival – 1 year	93.7%	97.7%	0.36

Table 3 - Results – Secondary endpoints

4. Adverse Events

Causes of graft loss included: 4 cases of primary non-function, one bleed from anastomosis, one patient who had severe dehydration and one with a pseudoaneurysm.

2 patients died of pneumonia, and one patient each died of multi-organ failure, 1 of ischemic bowel, and 1 of septicemia.