Supplementary Appendix

Additional analysis – "Significant" pain reduction at 60 and 90 minutes.

At 60 minutes n=14 (43.8%) in the IV group, and n=10 (30.3%) in the oral group achieved significant pain reduction as defined (p=0.31, chi square test). At 90 minutes, n=13 (40.6%) in the IV group, and n=8 (24.2%) in the oral group achieved significant pain reduction as defined (p=0.19, chi square test).

Table 4. Baseline characteristics (all randomised patients)

		IV Paracetamol (all) n=56	Oral Paracetamol (all patients n= 52	IV Paracetamol (mITT n=47)	Oral Paracetamol (mITT n=40)	P value (Comparing IV vs Oral mITT)
Age (years)		45.5 (28.0-57.2)	42.5 (32.2-52.0)	47.0 (26.0-58.0)	43.0 (34.5-54.2)	0.74^
Female n (%)		57.1%	51.9%	65%	55.3%	0.35#
Cause of pain	Abdominal / Gastrointestinal	42.9%	38.5%	42.6%	32.5%	0.63#
	Musculoskeletal	3.6%	3.8%	2.1%	5.0%	
	Neurological	41.1%	50%	42.6%	52.5%	
	Other	12.5%	7.7%	12.8%	10.1%	
Previous oipiods (mg Morphine equivalents) Medians (IQR)		5(2.7-5.0)	5 (2.5-5.0)	5 (2.5-5.0)	5 (2.5-5.0)	0.79^
VAS score (mm)		59.5 (20.7)	60.4 (24.7)	65.0 (15.8)	71.3 (15.6)	0.06^^
Pulse (bpm)		76.1 (18.4)	76.9 (16.4)	76.2 (17.4)	80.3 (15.6)	0.27^^
Systolic Blood Pressure (mmHg)		135.8 (27.4)	134.6 (20.1)	137.0 (27.9)	136.3 (20.9)	0.90^^
Respiratory rate (bpm)		18.0 (16.0-20.0)	18.0 (16.0-18.0)	18.0 (16.0-20.0)	18.0 (16.0-18.0)	0.82^
Oxygen saturation (%)		98.0 (96.0-99.0)	97.5 (96.0-99.0)	98.0(96.0-99.0)	97.0 (96.0-99.0)	0.58^
Time to intervention (min) median (IQR)				80 (59-108)	74 (58-100)	0.35^^

^ Man Whitney U test, ^^ Students t test, # Chi square test

Table 5. Pain score reduction from baseline at various time points – ITT analysis

Time (min)	IV Paracetamol (n=56) mm	Oral Paracetamol (n=52) mm	Difference (mm)	P value ^^
15	9.5 (14.0)	9.7 (23.5)	-0.2	0.95
30	14.3 (20.1)	12.6 (24.7)	2.3	0.71
45	21.2 (25.8)	19.5 (28.3)	1.7	0.77
60	19.4 (26.4)	21.2 (29.2)	-1.8	0.78
120	25.0 (26.5)	18.9 (29.5)	6.1	0.46
180	23.4 (26.0)	18.8 (36.4)	4.6	0.73
240	32.0 (12.0)	26.7 (37.4)	5.3	0.67

^^ Students T test

Table 6. Secondary outcomes (all randomised patients)

	IV Paracetamol (n=56)	**Oral Paracetamol (n=52)**	**Difference**	**P value**
Adverese events (%)	0	0	0	na
ED length of stay (minutes)	199 (151-235)	199 (147-227)	0	1.0^
Rescue analgesia* n (%)	80.5% (n=120)	83.2% (n=144)	-2.7%	0.52#
Rescue analgesia (mg Morphine equivalents)	5 (2.5-5.0)	5 (2.5-5.0)	0	0.50
Patient Satisfaction (%)	100.0 (80.0-100.0)	90.0 (80.0-100.0)	10 %	0.70^

*proportion of participants that received any rescue opiod analgesia during the follow up period, ^ Man Whitney U test # Chi Square test.