

Does Metoclopramide Reduce the Incidence of Ileus in Enhanced Recovery Patients?

Crockett M, Gane D, Hayward L,
Pullyblank A

Background

- Post-operative ileus is a significant problem
- Leads to delayed discharge
- Metoclopramide increases stomach emptying
- Used in ERAS protocols in an attempt to reduce ileus

Metoclopramide

- ERAS programme started November 2008
- Metoclopramide included in ERAS protocol
- Discontinued November 2009 after concerns from pharmacy



Surgery

North Bristol 
NHS Trust

Aim

- Does the use of metoclopramide within an ERAS programme reduce the incidence of post-operative ileus?

The ERAS Database

- November 2008
- Prospective database
- 1162 patients
- 141 fields
- 92% completed fields
- Excluded patients with LOS over 12 days

Outcome Measures

- Length of stay (LOS)
- Days to passage of first flatus (FF)
- Days to bowels opening (BO)

- Ileus rate
- Nausea/vomiting rate

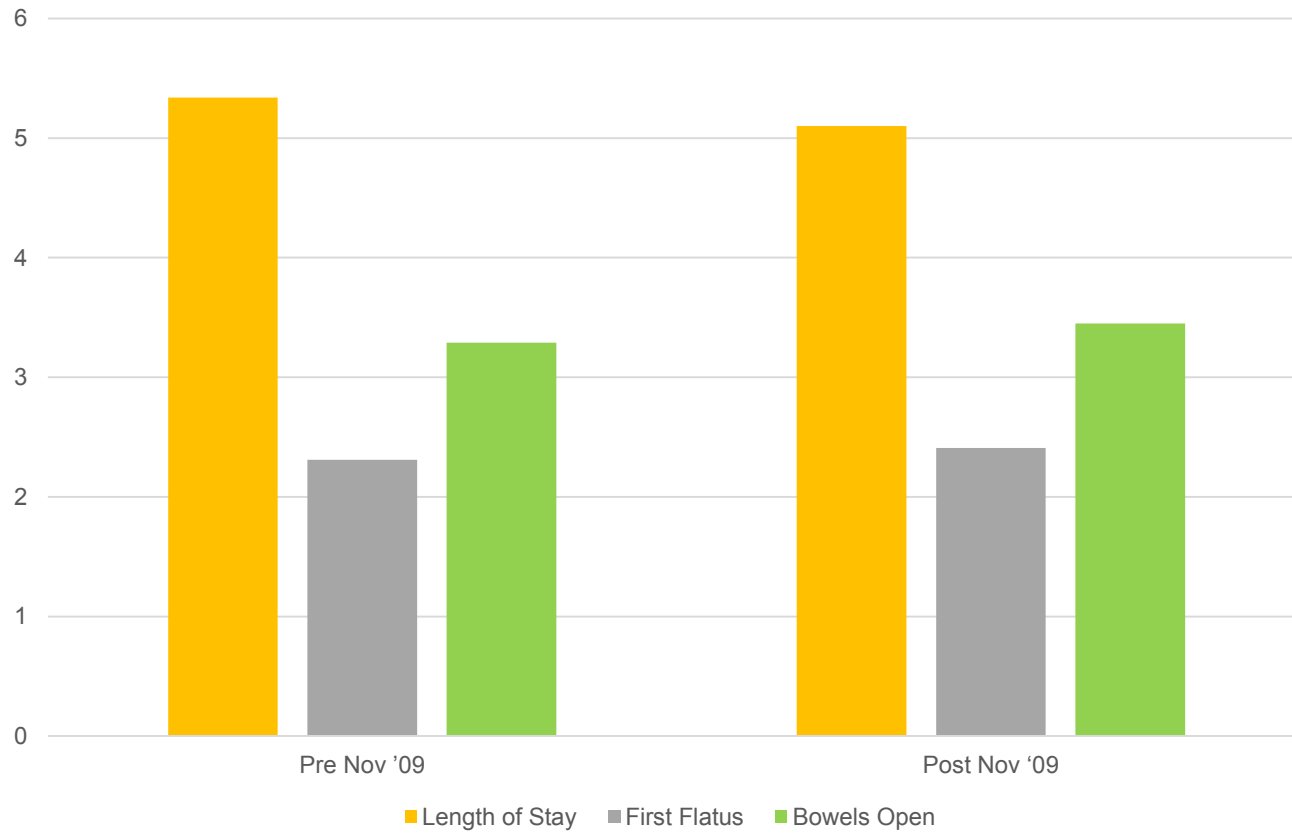
- Analysis using Mann-Whitney U Test

Results - All

	Pre Nov '09	Post Nov '09	
Total	255	611	
Length of Stay	5.34	5.10	0.667
First Flatus	2.31	2.41	0.390
Bowels Open	3.29	3.45	0.348



All Patients

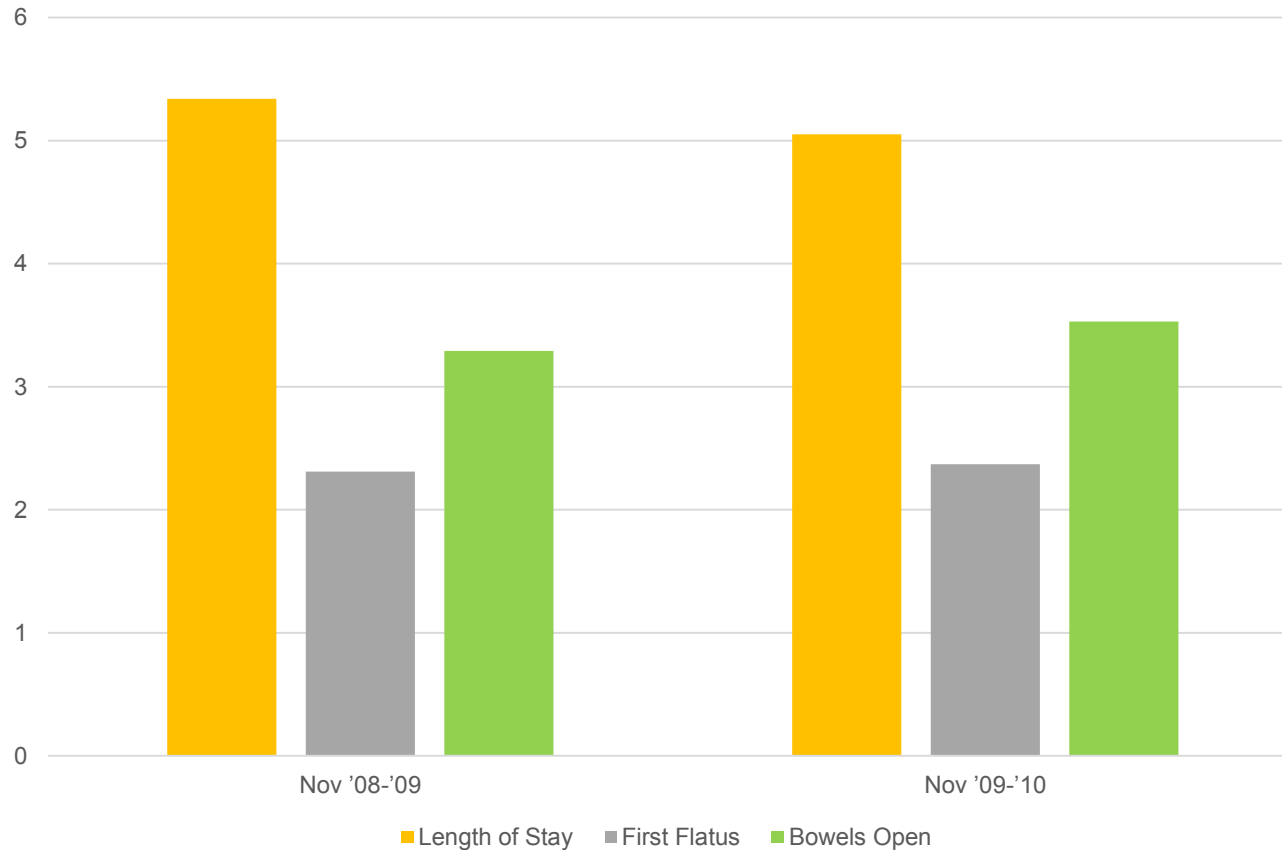


Results – 1yr

	Nov '08-'09	Nov '09-'10	
Total	270	269	
Length of Stay	5.34	5.05	0.654
First Flatus	2.31	2.37	0.387
Bowels Open	3.29	3.53	0.158



1yr Pre vs 1yr Post



Other Analysis

- Laparoscopic
- Right
- Anastomosis
- Open
- Left
- No anastomosis

Problems

- Need further data analysis
 - Exclude patients with complications
 - Exclude patients with social delay
- Subjective data unhelpful
 - Need definitions

Conclusion

- Metoclopramide does not alter time to first flatus or bowels opening
- Holds true when considering approach or site of resection
- We have demonstrated that metoclopramide does not add value to an enhanced recovery programme

Conclusion

- Metoclopramide does not alter time to first flatus or bowels opening
- Holds true when considering approach or site of resection
- We have demonstrated that metoclopramide does not add value to an enhanced recovery programme

Thank You



Results – Lap vs Open

	Laparoscopic	Open	
Total	262	211	
Length of Stay	4.40	6.24	0.000
First Flatus	2.16	2.54	0.001
Bowels Open	3.35	3.49	0.424



Results – Laparoscopic

	Laparoscopic		Open		
	Pre	Post	Pre	Post	
Total	143	119	111	100	
Length of Stay	4.52	4.26	6.39	6.08	0.670
First Flatus	2.18	2.16	2.47	2.6	0.447
Bowels Open	3.25	3.45	3.32	3.64	0.271

Results – Open

	Laparoscopic		Open		
	Pre	Post	Pre	Post	
Total	143	119	111	100	
Length of Stay	4.52	4.26	6.39	6.08	0.504
First Flatus	2.18	2.16	2.47	2.6	0.609
Bowels Open	3.25	3.45	3.32	3.64	0.309

Results – Side

	Right	Left/Pelvis	
Total	139	266	
Length of Stay	4.80	5.60	0.214
First Flatus	2.51	2.22	0.003
Bowels Open	3.83	3.16	0.000

Results - Right

	Right		Left + Pelvic		
	Pre	Post	Pre	Post	
Total	74	65	135	131	
Length of Stay	4.84	4.75	5.97	5.21	0.924
First Flatus	2.34	2.70	2.32	2.12	0.041
Bowels Open	3.61	4.08	3.05	3.26	0.050



Results – Left/Pelvis

	Right		Left + Pelvic		
	Pre	Post	Pre	Post	
Total	76	31	138	189	
Length of Stay	4.84	4.75	5.97	5.21	0.122
First Flatus	2.34	2.70	2.32	2.12	0.186
Bowels Open	3.61	4.08	3.05	3.26	0.573



Surgery

Stoma

	R	L	P
Total	226	141	436
Stomas	10	24	262

Results – Anastomosis

	Anastomosis		No Anastomosis		
	Pre	Post	Pre	Post	
Total	52	32	45	31	
Length of Stay	6.65	7.28	7.33	7.55	0.214
First Flatus	2.11	2.34	1.71	1.91	0.202
Bowels Open	2.42	2.84	1.91	2.58	0.064

Results – No Anastomosis

	Anastomosis		No Anastomosis		
	Pre	Post	Pre	Post	
Total	52	32	45	31	
Length of Stay	6.65	7.28	7.33	7.55	0.972
First Flatus	2.11	2.34	1.71	1.91	0.124
Bowels Open	2.42	2.84	1.91	2.58	0.367