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Study	Population	Intervention	Results					Validity/Conclusion
McCallum et al,	Inclusion criteria:	The study was						The study was a double-
2010.	1. Age ≥18 years. 2. Symptomatic	conducted in 8	(before randomization)					blind, multicenter cross-
Study type:	gastroparesis due to DM or idiopathic.							over RCT. However, it had
Crossover RCT.	Unresponsive or intolerant to	patients underwent				75* <0	.001	the disadvantage of lacking
	prokinetic and antiemetic drugs tried	implantation of the	*57% reduction from baseline					a washout periods between
Objective:	for 1 month. 4. Had at least 7	Enterra system using	Described the same secondary					the ON stage after
To evaluate the	episodes of vomiting during a	either laparoscopy or	Results at the cross- ove		•		Divolue	implantation, and between
	consecutive-day period on a 28-day	laparotomy approach.		ON State	•	OFF State	P value	the cross- over stages of
	diary. 5. With gastric retension of	The system was	\A/\/\/\*					the study. This makes it
in patients with	>10% at 4 hours, or >60% at 2 hours.	turned ON for 1.5	WVF*, median (Interquartile range	3.81 (0.75	E 14 O)	4.25 (0.38-15.	1) .215	hard to determine whether
intractable	6. Able to accurately complete and fill	months after which	(interquartile range	3.61 (0.73	3-14.0)	4.25 (0.36-15.	1) .213	the improvement in
nauseas and	the diary and questionnaire	they were randomized	Frequency					symptoms was actually due
vomiting from	throughout the study. 7. On a stable	to one of 2 treatment	symptom score**					to the treatment or just a
diabetic	dose of prokinetic agents for ≥30	arms:	(mean + SD)					placebo effect of the
gastroparesis	days before baseline and be willing to	1. Three months ON	Vomiting	2.31 <u>+</u> 1.4		2.03 <u>+</u> 1.48	0.057	therapy.
(DGP).	continue the dose throughout the	followed by three	Nausea	2.81 <u>+</u> 1.3		2.42 <u>+</u> 1.56	0.369	GES was not compared to
	study unless contraindicated.	months OFF.	Early satiety	1.89 <u>+</u> 1.4		1.47 <u>+</u> 1.44	.0493	other therapies and the trial
Primary	Exclusion criteria:	Or	Bloating	1.83 <u>+</u> 1.4	43	2.03 <u>+</u> 1.58	0.170	included patients who failed
outcomes:	1. Other underlying illness or cause	2. Three months OFF	Fullness Epigastric pain	1.44 <u>+</u> 1.3 1.31 <u>+</u> 1.3	38 27	1.64 <u>+</u> 1.46 1.28 <u>+</u> 1.41	0.011 0.295	therapy for a low as one
% reduction in	affecting the gastric motility. 2. Other	followed by three	Epigastric burning	0.92 <u>+</u> 1.3		1.03 <u>+</u> 7.48	0.293	month.
weekly vomiting	primary disorders leading to vomiting,	months ON.	TSS†	12.5 + 7.		11.89 + 7.48	0.903	
frequency (WVF)	or swallowing disorders. 3. Perineal		*N=32 subjects provid	The results of the study				
during the ON	dialysis. 4. Daily narcotics for	At the end of the	** N=39 subjects. For each individual a score 0=absent, and 4+ extremely show no significant					
period relative to	abdominal pain. 5. Drug or alcohol	crossover period, the	frequent (≥7/wk) The total is the sum of all the individual scores. difference in the WVF or					
OFF period.	dependency. 6. Life expectancy <12	device was	† Overall frequency symptom score other symptoms between					
	months. 7. Other implanted devices.	programmed ON for	the ON and OFF modes					
Secondary	8. Pregnancy. 9. Undergone radiation	4.5 months.		WVF at 12 months compared to baseline  N Median % reduction P value				but a significant
outcomes:	therapy to upper abdomen. 10.		Analysis N			% reduction	P value	improvement WVF in the
% reduction in	Planning a MRI.	All patients were	0 1 1		•	uartile range)	0.004	first 6-week unblinded
WVF at 12 months		required to record				3.7-92.4)	<0.001	period after implantation vs.
relative to	Patient Characteristics:	daily vomiting	ITT ** 45 66.5 (17.7-90.7) <0.001 period after 1 https://doi.org/10.001 baseline, which is a subject of the sub					
baseline.	Mean age 38.3 years (range 20-63),	episodes in a 28-day	assess WVF. Median WVF 19.5 episodes at baseline and 4.25 at 12 months.					
Symptom scores		diary. GE was	** Only the observations made with the device ON were carried forward for the the OFF mode.					
and QoL.	, mean duration of GP symptoms 5.9	evaluated after a solid	intention to treat analysis.					
	years (range 1-38 y), median vomiting							
N of patients:	16.8 episodes/week. All had delayed	months and annually	→ Quality of life and gastric emptying were significantly improved					
N=55 received the	gastric emptying, median retention	using a standardized	compared to baseline					
device, 45	75.5% at 2 hours, 46.5% at 4 hours.	scintigraphy method						
randomized.			Adverse events:					
	required oral nutritional support,	meal.	Total 732 events					
Blinding:	14.8% enteral and 3.6% parenteral.		-687(93.9%) were patient-related, 438 (64% serious (225					
Double-blind.	· ·		hospitalization in 40 patients)					
			-45 (6.1%) were therapy or device related, 15/45 (33%) were serious.					
Follow-up:			-3 patients required surgical intervention					
12 months.			-Mortality: 7/55 (12.	7%) died at	one ye	ar; none relate	d to the therapy.	
88.6%omplete					-		• •	

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