

ADVERSE REACTIONS

GastroMARK was evaluated in 256 patients and normal volunteers in clinical trials. Of these, 147 (57%) had at least one adverse event. Deaths did not occur during the study period of 7 days. In 15/256 (6%) patients, the ingestion of GastroMARK was either interrupted or stopped because of vomiting or because they could not ingest any more fluid. One normal volunteer had prolonged abdominal cramping for 4 hours. One patient had post-operative ileus 2 days after ingesting GastroMARK.

There is a suggestion of differences in rates of adverse experiences in patients who have or do not have pancreatic or gastric masses. In patients with gastric or pancreatic masses, vomiting was reported in 4/35 (11%); in patients without gastric or pancreatic masses, vomiting was reported in 10/221 (5%) (p = 0.07). Abdominal pain was reported in 1/35 (3%) of patients with pancreatic or gastric masses and in 22/221 (10%) of patients without these lesions. The clinical relevance of these findings is not known.

The following table of adverse events is based upon clinical trials with GastroMARK in 256 subjects.

ADVERSE EVENTS REPORTED IN ≥ 0.5% OF PATIENTS WHO RECEIVED GASTROMARK IN CONTROLLED TRIALS*		
Adverse Event	Before GastroMARK N = 241	After GastroMARK N = 256
Patients with Any Adverse Event	83 (34%)	147 (57%)
Body as a Whole	0 (0%)	25 (10%)
Headache	0 (0%)	3 (1%)
Digestive System	80 (33%)	130 (51%)
Abdominal Pain/Cramps	18 (8%)	23 (9%)
Diarrhea	38 (16%)	67 (26%)
Dyspepsia	14 (6%)	16 (6%)
Flatulence**	41 (17%)	55 (21%)
Nausea	18 (8%)	43 (17%)
Vomiting	5 (2%)	14 (6%)
Nervous System	0 (0%)	44 (17%)
Paresthesia, Oral	0 (0%)	44 (17%)
Skin & Appendages	0 (0%)	3 (1%)
Pruritus	0 (0%)	2 (0.8%)

* The mean volume of GastroMARK administered was 701 mL (122.7 mg of iron).

** Includes bloating and gas.

In the safety database of 256 people, the type of events was similar in people of each gender and in patients and healthy volunteers. The sample size was too small to determine whether there is any association of adverse events to body weight. However, for nausea and diarrhea, as shown in the following table, the rate of adverse events was much higher in women, both in patients and in volunteers.

GENDER DIFFERENCES IN THE RATE OF NAUSEA AND DIARRHEA AFTER GASTROMARK REPORTED BY PATIENTS AND HEALTHY VOLUNTEERS IN CONTROLLED TRIALS				
Adverse Event	Men		Women	
	Healthy Volunteers (N = 42)	Patients (N = 99)	Healthy Volunteers (N = 21)	Patients (N = 94)
Nausea	4 (10%)	9 (9%)	10 (48%)	20 (21%)
Diarrhea	9 (21%)	23 (23%)	12 (57%)	23 (25%)

Other events reported in less than 0.5% of 256 healthy volunteers and patients who received GastroMARK are: chills, fever, post-operative ileus, eructation, itching, urticarial rash, pustular rash, stomatitis, taste alteration, and edema of extremities. One healthy volunteer had prolonged abdominal cramping for 4 hours.

DOSAGE AND ADMINISTRATION

The recommended dosage of GastroMARK is 600 mL (105 mg Fe) administered orally at a rate of about 300 mL over 15 minutes. The maximum oral dose is 900 mL (157.5 mg Fe).

GastroMARK should be taken after fasting at least 4 hours.

Before use, the bottles should be shaken vigorously for at least 1 full minute to assure uniform suspension of contents. Chilling before ingestion improves palatability. Any unused portion should be discarded.

GastroMARK contains 175 µg iron per milliliter. The amount of iron absorbed varies with the patient's iron stores. (See CLINICAL PHARMACOLOGY Section).

Imaging: After ingestion of GastroMARK, imaging may begin immediately. Generally, optimal results occur within 30 minutes. In some patients, delayed images (4 to 7 hours after ingestion) may be useful in delineating the lower gastrointestinal regions.

OVERDOSAGE

Overdose has not been reported with GastroMARK. If overdose occurs, it is likely that the toxicity would be related to iron, volume intolerance, or allergic-hypersensitivity reactions.

HOW SUPPLIED

GastroMARK is packaged in white polyethylene bottles sealed with tamper-evident screw closures. Each bottle contains 300 mL of GastroMARK.

GastroMARK is supplied in boxes of twelve bottles each.

12 x 300 mL bottle NDC Number: 0019-1120-06

Rx only.

GastroMARK is distributed by Mallinckrodt Inc., Raleigh, NC, under license from Advanced Magnetics, Inc., Cambridge, MA.

GastroMARK is a trademark of Mallinckrodt Inc.

Storage: Store at controlled room temperature or refrigerate between 2-25°C (36°-77°F). **Protect from freezing. The product should be discarded if frozen.**

The following patents have claims directed to the drug: USP 4,695,392, USP 4,695,393, USP 4,770,183, USP 4,827,945, USP 4,951,675, USP 5,055,288, USP 5,069,216, USP 5,219,554.

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