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PRACTICE OBSERVED

Practice Research

Dyspepsia: incidence of non-ulcer disease in a controlled trial of ranitidine in general practice

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incidence of anderlying disease was coupled with low accuracy in unaided clinical diagnosis.

After endoscopy 496 patients with persistent symptoms (median dursions six to eight weeks) were randomly allocated to treatment and then reviewed every two weeks. Complete remission of symptoms occurred in 75% of patients who were taking rantidise and in 55% who were taking placebo (p<0 00009), Of those with non-uncer dryspersis, significantly more became symptom free taking rantidine compared with placebo (p<0 002). Rantidine healed most duodenta ulters (19%) and gastric ulcers (9%), within four weeks. Tolerance to rantiddine was good, and the incidence of complaints was similar on placed.

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Introduction

Family doctors see many patients with dyspepsia for the first time whose symptoms are not entirely typical of peptic ulceration. The short history and relatively mids of symptoms may not justify hospital short history and relatively mids symptoms may not justify hospital with dyspepsia are some who have an active gastric or duodenal ulcer, yet their symptoms are indistinguishable from those of patients who have oesophagitis, gastritis, or duodeniis. All these conditions are now regarded as features of sich peptic disease, which may be associated with excessive gastric acidity or reflux. The remaining patients have no disease evident, but their postprandial dyspepsia is similar to that experienced by the others. Non-ulcer that acid peptic disease presents a range of clinical features and that early symptoms of dyspepsia may herald the start of the chronic intermittent disease, which may later be recognized as peptic ulceration.

This perception of early acid peptic disease has prompted two ideas. Firstly, some endoscopists believe that family doctors should be encouraged or arrange for endoscopy by providing them with an hospital. Secondly, some gastroenterologists consider that effective treatment to reduce gastric acidity is needed so that any tissue damage is minimised or avoided altogether. The availability of endoscopy and the efficacy and aftery of histamine H₂ antagonists have undoubtedly influenced these attitudes. Indeed, these drugs are already being prescribed by family doctors as first treatment or decide capacity and sirely of herally doctors. It would indicate not only what proportion of these patients with dyspepsia had evidence of underlying disease but also the efficiency and safety of histamine of nativity of the disease. It seemed desirable also to follow up patients for one year after stopping treatment to assess the rate of recurrence.

groups and no clear out trends found during the trial from checking on habit every two weeks. The control of th

placeb. Those with duodensi ulcers showed a significant response to natiodine, and all those without gastric or duodensi ulcers or ecophagua had significant relief of symptoms with ranktidine. In patients with gastro et duodensi ulcers the diary cards showed a rapid response of symptoms from ranktidine, responsely pain relief, in the first two weeks, and a definite reduction in consumption of antacids from the first day.

Repair andsough—After four weeks of treatment 90% of patients with gastric or duodensi ulcers returned for a repeat endoscope, examination. The state of the state o

ADVERSE EVENTS

	Before endoscopy					After endoscopy						
		Percentage of patients who experienced pain at each site			Percentage of patients who experienced each factor in association with dyspeps							
Endoscopic diagnosis	No	Retrosternum	Epigastrium	Left hypochondrium	No	Associated with bending/stooping	Relieved by antacid	Brought on by eating	Relieved by cating	Sleep disturbed		
Oesophagitis alone	97	32	76	21	95	46	69	64	24	62		
Duodenal ulcer	99	19	89	20	94	21	78	40	50	72		
Gastric ulcer	32	16	75	41	30	17	80	50	40	63		
All except ulcers or oesophagitis	136	34	91	20	251	44	68	61	25	57		

TABLE IV—Comparison of endoscopic findings with clinical diagnosis for 559 patients for whom no more than 14 days elapsed between clinical diagnosis and en

Main finding on endoscopy	Gastric ulcer	Duodenal uker	Peptic ulcer	Oesophagitis	Gestritis or duodenitis	Dyspepsia	Histor	Other	Accurate diagnoses
Gastric ulcer (n×28)		6	•	•		1		ŀ	29% gastric ulcer 43% gastric or peptic ulcer
Duodenal uker (n = 93)	13	51	11	3	12	1	2		55% duodenal ulcer 67% duodenal or peptic ulcer
Duodenal and gastric ulcer (n = 4)		3	1						
Oesophagitis (without ulcer) (n = 132)	16	29	13	34	23	3	14		26% oesophagitis 36% oesophagitis or hiatus her
All except gastric or duodenal ulcers or oesophagitis (n=302)	31	102	31	43	50	19	25	1	,
Total No	- 68	191	60	84	89	24	41	2	

TABLE v-Outcome of treatment after six weeks for patients in each treatment group

		No who	No who	Final No	Free of symptoms	y' test with
Endoscopic diagnosis (treatment group)	No treated	defaulted	withdrew	evaluated	No (%)	Yates's correction
All petients:						
Ranitedane	243	13	9	221	169 (76)	21:46, p<0:000004
Placebo	253	17	13	223	123 (55)	
Duodensi ulcer*						
Ranitidine	48	1	0	47	38 (81)	9-97, p< 0-002
Placebo	45	3	1	41	19 (46)	
Gestric picer*						
Ranitidine	13	0	1	12	9:751	p>0.2
Placebo	17	1	0	16	7 (44)	(Fisher's exact te
No abnormality:						
Ranitidine	70 74	3	4	63	51 (81)	2:81, p>0:09
Placebo	74		7	62	41 (66)	
All patients without ulcers or oesophapitis (non-ulcer dyspepsis)						
Ranstidine	115	7	5	103	82 (80)	9-62, p<0-002
Placebo	136		10	118	70 (59)	

A double bind placebe controlled multicentre clinical trial evaluated the efficacy and safety of ramidine (150 mg twice duily) in managing preriously uninvestigated patients with dyspepts by the assessment of symptoms and endoscopic examination. General practitioners who agreed to participate in the trial based with a nearby endoscopy clinic. The trial protocol was approved by the local ethics committee, and informed consent was obtained from the patients. The family doctors performed all assessment other than

the trail based with a nearby endoxopy clinic. The trail protocol was approved by the local chica committee, and informed content was obtained from the patients. The family doctors performed all assessments other than experience of the patients. The family doctors performed all assessments other than patients. The family doctors was characteristic to the family doctor with dyspepsia of at least two weeks duration, were aged 18 to 65 years, and were willing and able to participate in the tusty. Dyspepsia was defined as epiganic or retrooternal pain or discomfort that was usually other than anticipation of the patients of the patients of the patients who were taking anti-inflammatory drugs, had had supery to the upper gastrometricular use, in the previous four weeks was excluded. Patients who were taking anti-inflammatory drugs, had had supery to the upper gastrometricular ties, or had serious systemic illustrative were excluded. Women were excluded if they were pregnant, breast feedings were excluded. Women were excluded at they were pregnant, breast feedings of the patients was excluded. The patients were excluded as the patients was calculated for any tendent of the patients was excluded. The patients were excluded all they were pregnant, breast feedings for the patients was excluded. The patients were sent to the patients was excluded. The patients were sent to the patients was excluded by a marching placebo. Each pack of tablets carried a code number, and general practitioners dispensed to extend the patients was excluded.

At two week intervals patients were seen by their family doctor for assessment of symptoms and physical examination and to other smoothing patients were sent by their family doctor for assessment of symptoms and physical examination and to other smoothing and antical consumption and completed questionnaire sking about their experience of 23 different adverse events. Any new sign on symptoms which developed during treatment was also reported as an adverse event. The doctors completed appet

Results

Pennets—After a 12 month pilot study the trial began in May 1982, and the last patient completed treatment in February 1984. A total of 604 patients was recruised by 10g general practitioners matter. Limit Referance of the procession of the control of the Referance of the Confederation of the Reference of the Confederation of the Conf

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80% of piteins had expensed symptoms of syspepas before the presenting episode, and 60% of these first had dyspepas and dyspepas and the presenting episode, and 60% of these first had dyspepas more than a year before. Some (12%) had their first dyspepas is expensed that the second of the second

TABLE 1—Distribution of disease in 559 patients

	Patients with finding alone or in combination
	No (%)
Duodenal uker	97 (17)
Duodenal uker with deformed duodenal cap	35 (6)
Duodenal erosion	30 (5)
Gestric ulcer	12* (6)
Gastric erosions	31 (6)
Oesophagitis	164 (29)
Oesophagesi ulcer	11 (2)
Histus bernia	84 (15)
Histus hernia with oesophagitis	45 (8)
Gastritis (macroscopical appearance)	90 (16)
Duodenitis : macroscopical appearance	117 (21)
Deformed duodenal cap	54 (10)
Gastric carcinoma	1 (0:2)
Remark nepoleum	4 (0.7)

	No. %: 93 - 17: 28* 5:
Duodenal uker	
Gastric plore	
Gastric and duodenal ulcer	4 (0.7)
Oesophamitis without duodenal or gastric ulcer	1321 (23.6)
Hutus bernia only	16 :3:
Gastritis (macroscopical appearance, without peptic ulcer or oesophantis:	51 (9)
Duodenitis (macroscopical appearance; without peptic ulcer or oesophantis)	35 (6)
Deformed duodenal cap only	3 (0.5)
Mixed mucosal disease	17 (3)
Gastric carcinoma	11:02
Benuen neoplasm	4 0.7
Bule reflux only	4 (0.7)
No abnormality	171 (30:6)

* Histological examination showed gastric silect to be malignant in one patient.

† One patient with mild one-phagins and severe gastriis had carcinoma of the head of the patients.

The incidence of malignant description.

Symptoms and endoscopic findings—A detailed examination of the symptoms and attes of pain that patients reported to their general practitioners at the fast stendance showed on characterists, that you practises of distribution that could be scurredly related to underlying disease (table III), which is the country of the country of the transport of the country of the country of the transport of the country of

that the placebo group experienced headaches before treatment, and that difference persisted until the stath week of treatment.

Seventy is a adverse events were spontaneously reported to have occurred. Seventy is a diverse events were spontaneously reported to have occurred. Seventy is a diverse event were spontaneously reported to have occurred who receiver placebo. Of these patients, four who were taking restricted who receiver placebo. Of these patients, four who were taking restricted adverse events related to restrained. Of the four patients treated with restricted adverse events related to restrained. The place is the state of the design treatment. A third guisent was withdrawn after a single episode of weeks. The fourth patient had sore eyes during the first week of treatment, stopped rantifiation for four days, then resumed treatment to the end of its weeks without recurrence. Of the eight patients treated with placebo, three had nauses or vomiting, one had dismitted the placeboard of the placeboard of the district of the placeboard of the placeboar

ANNUAL REVIEW

Of the 469 patients who were randomised to treatment, 361 (73%) were reviewed 12 months later. General practitioners completed a questionnaire at interview for 246 patients and from case records for the remainder. Six of these patients bad been hospitalised in this period (four taking ransidine, two taking placebo) with no abnormalises on endoscopy underwent further totaking placebo) with no abnormalises on endoscopy underwent further patient taking ransidine, two taking placebo) with no abnormalises on endoscopy underwent further patient taking ransidine, was a 69 year old man who had resurrence of symptoms one month after his duodenal ulcer had healed. Further investigations thowed a bronchal carcinoma. His duodenal ulcer preferrated five months after the trail, and he died after the operation. A fourth potent had a gastric ulcer when symptoms recurred eight months later.

One patient in each treatment group reported having had headached urgest the statement of the patient who had can resument. The patient who had deep the document of the fourth of the patient who had deep referrated for four to us weeks after treatment with no further recurrence. The patient who add taken placebo had headaches in the follow up period which the doctor thought were due to streat.

had headaches in the fotow up person winse us workers are more and the patient was a first patient who had taken placebow who returned for annual review were mainly placebo responder. Those patients who had failed to respond to trail treatment were subsequently treated by their doctors. The remaining patients may have been exposed to a variety of treatments during this follow up period. For these reasons valid comparisons between the two treatments and the properties of the p

Discussion

Endoscopic examination of 559 patients with dyspepsia who consulted their family doctors showed that 70% had abnormalities that magh be considered to be consistent with acid peptic disease. About one third of these had the macroscopical appearance of the considered to the consistent with acid peptic disease. About one third of these had the miscroscopical appearance of the consistent with a consistent with the consistent with the consistent with the consistent with the

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BRITISH MEDICAL JOURNAL VOLUME 292 8 MARCH 1986 increased the accuracy of diagnosis, and in the results of studies reported since 1973 the mean proportion of patients with no evident abnormality is 34%, which is consistent with our finding (30%). "She will be a consistent with our finding (30%) and the studies of the propertion of patients with the studies of patients in this study with definite lesions would be 50%, which still accords with other studies.

The accuracy with which family doctors evaluated dyspepsia was approximately 50% in this trail, which agrees with that in other studies." Attempts have been made to identify still a study with extraction of the studies. The accuracy with which family doctors evaluated dyspepsia was approximately 50% in this trail, which agrees with that in other studies." Attempts have been made to identify still a study with a shaling up to 90% of ulcers, that antidine, with a 24 hour control of gastric secretion, was better than placebo in producing relief of symptoms in a variety of dyspepsia and had been beneficial for almost three quarters of the patients who entered this study. It is not surprising, therefore, that ranidishes, with a 24 hour control of gastric secretion, was better than placebo in producing relief of symptoms in a variety of dyspepsia and had been beneficial for almost three quarters of the patients with non-ulcer dyspepsia, as the shaling up to 90% of ulcers, the study with the study w

We thank the patients and general practitioners who cooperated in this study, together with the staff of the endoscopy units who provided the facilities for investigation. The trail was initiated and directed by Dr. J C. Garnham when he was employed in Glazo Group Research Ltd and was coordinated by Miss Elizabeth Lane Allman. Statistical analyses were performed by Mr M I J Hogg and Mr P R Worthington.

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