B. GASTROINTESTINAL USE

(1) HALDOL - 1.0 mg

1. Leslie, R.E., M.D. (10) - Study No. 1
A double-blind evaluation of the antiemetic properties
of HALDOL in nonhospitalized patients with nausea and
vomiting as a result of gastrointestinal disorders.

Fifty-four patients who required antiemetic treatment for moderate to severe vomiting with nausea were entered into the study. Ten patients were excluded because vomiting was due to conditions other than gastrointestinal disturbances (e.g. vascular headache, and digitalis toxicity, etc.).

The characteristics of the remaining 44 patients are shown in Table XLIV. Either HALDOL 1.0 mg or placebo was administered intramuscularly as a single dose following the development of vomiting.

Table XLIV
Patient Characteristics

								-
ł	Drug	Age		S	ex	Wei	Total	
į	Group	Mean	Range	Male	Female	Mean	Range	Cases
	HALDOL	54.0	23-84	5	18	158.6	102-301	23
	Placebo	58.6	17-85	4	17	147.2	91-253	21

Patients were evaluated for 12 hours post-drug administration.

The episodes of vomiting were recorded initially and every two hours for the first four hours and every four hours for the next eight hours (up to 12 hours). These data are presented in

Table XLV. Table XLV Episodes of Voniting

	Episoces	<u> </u>	OI.II L	1115				· .
Time of	Drug			Free	gueno	CY C		Total
Observation	Group	0	1	2	3	4	>5	Patients
Initially	HALDOL	0	0	9	9	2	3	23
(Pre-Study Drug)	Placebo	0	G	2	10	7	2	21
During First Two-Hour	HALLOL 4	15	6	2	0	0	0	23
Post-Study Drug	Placebo	6	10	4	1	0	0	21
During Two-Hour to	i!ALDOL*	21	2	0	0	0	.0	2.3
Four-Hour Period	Placebo	12	6	2	0	0	0	20
During Four-Hour to	HALLOL	23	0	0	0	0	0	23
Eight-Hour Period	Placabo	18	1	1	0	0	0	20
During Eight-Hour to	HELDOL	22	1	0	0	0	0	23
12-Hour Period	Placebo	20	0	0	0	0	0	20

^{*}Statistically significantly fewer episodes of vomiting during this particular period (P < .05, Rank "t" Test)

A review of Table XLV reveals that there were fewer episodes of vomiting in the HALDOL-treated group than in the placebo group. The difference between the two treatments in the episodes of vomiting was significant (P < .05) favoring HALDOL at the 2-hour and during the 2-hour to 4-hour evaluation points. The data are presented graphically in Figure 7.

The incidence of vomiting in the HALDOL drug group was significantly (P<.01) less than in the placebo group over the 12-hour evaluation period. Similarly, the incidence of vomiting in the HALDOL group during the 4 to 8-hour period and during the 8 to 12-hour period was also significantly (P<.01) less than in the placebo group during these periods. This continued difference between test groups indicates prolonged effectiveness of HALDOL.

During the 12-hour observation period, 15 (66%) of the 23 HALDOL patients but only 5 (24%) of the 21 placebo patients were free of vomiting. This difference between the two treatments is statistically significant (P < .01) in favor of HALDOL.

The occurrence of nausea after treatment is presented in

Table XLVI.

Table XLVI

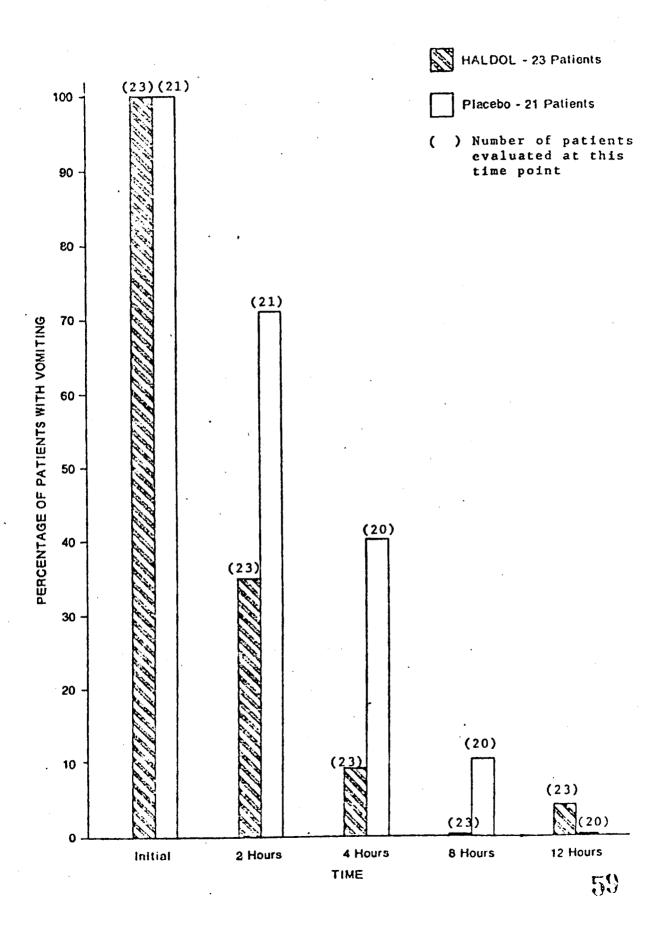
Occurrence of Nausea

Time of	Drug Severity*of Nausea					Total
Observation	Group	0	1	2	3	Patients
Initially	HALDOL	0	2	18	3	23
(Pre-Study Drug)	Placebo	0	0_	21	0	21
During First Two-Hour	HALDOL	1.1	9	3	0	23
Post-Study Drug	Placebo	3	15	3	0	21
During Two-Hour to	HALDOL**	21	2	0	0	23
Four-Hour Period	Placebo	10	10	0	0	20
During Four-Hour to	HALDOL	21	2	0	0	23
Eight-Hour Period	Placebo	17	3_	0_	0	20
During Eight-Hour to	HALDOL	22	. 1	0	0	23
12-Hour Period	Placebo	19	1	0	0	20

^{*}O=None, 1=Mild, 2=Moderate, and 3=Marked

^{**}Statistically significant less nausea among HALDOL patients (P < .01)

Figure 7



There were fewer occurrences of nausea among the HALDOL patients than among the placebo patients at each evaluation point. The difference in the occurrence of nausea between the two treatments is significant (P < .01), favoring HALDOL, during the 2 to 4-hour evaluation point.

A pattern for the reduction of the incidence of nausea is similar to that of vomiting presented in Fig. 8.

A review of the two cumulative severity score distributions made by summing each patient's nausea rating during the 12-hour observation period shows that the severity of nausea for the placebo patients is significantly (P < .01) higher than that of the HALDOL patients.

The investigator's global or overall evaluation at the end of therapy is presented in Table XLVII.

Table XLVII Global Evaluation

Drug		Total									
Group	Marked	Moderate	Minimal	Unchanged	Patients						
HALDOL	19	3	1	0	23						
Placebo	11	5	2	3	21						

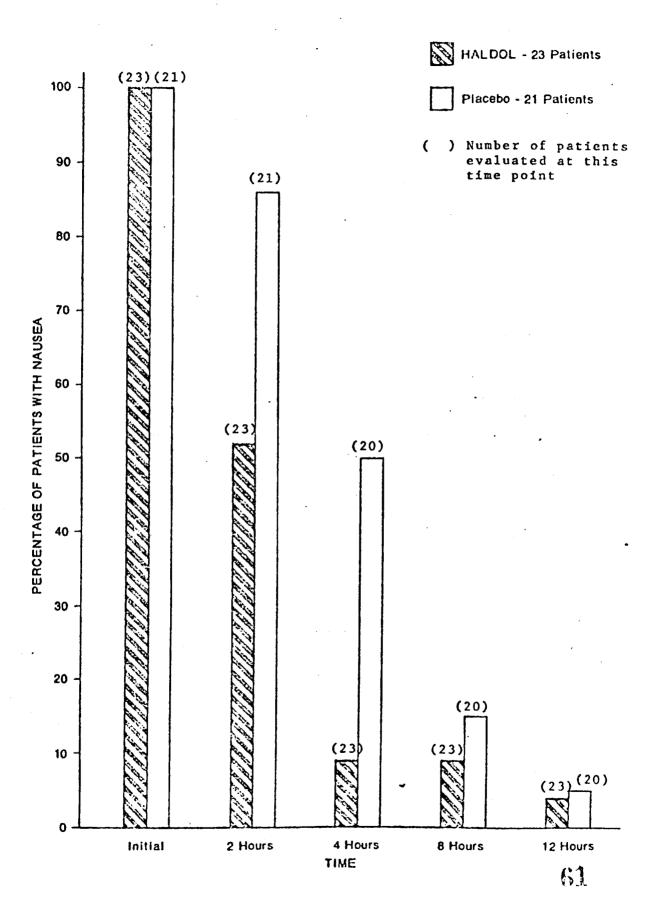
An analysis of the data shows the statistical difference between the therapeutic responses to the two treatments to be P < .05 in favor of HALDOL.

The vital signs obtained 2 hours after administration of the drug demonstrated no significant difference between the treatment groups.

No side effects were observed in either drug group during the course of the study.

One patient, who had received placebo, continued to have nausea and vomiting to a degree requiring immediate

Figure 8



treatment. He was considered a treatment failure and dropped from the evaluation. The patient was then administered 1.0 mg of uncoded parenteral HALDOL and exhibited a marked therapeutic response.

In summary, the intramuscular injection of 1.0 mg HALDOL was safe and significantly (P <.05 and in some instances P <.01) more effective than was placebo in controlling nausea and vomiting as a result of gastrointestinal disorders.

2. Weinstein, R.A., M.D. (13)
A double-blind evaluation of the antiemetic properties
of NALDOL in hospitalized and nonhospitalized patients
with nausea and vomiting as a result of gastrointestinal
disorders.

Forty-three patients who required antiemetic treatment for moderate to severe vomiting with nausea were entered into the study.

The characteristics of the 43 patients are shown in Table XLVIII. Either HALDOL 1.0 mg or placebo was administered intramuscularly as a single dose within four hours of an episode of vomiting.

Table XLVIII
Patient Characteristics

Drug	Drug Age			ex	Wes	Total						
Group	Mean	Range	Male	Female	Mean	Range	Patients					
HALDOL	52.0	22-80	2	21	142.1	92-175	23					
Placebo	40.7	18-74	4	16	141.5	110-195	20					

Patients were evaluated for 12 hours post-drug administration.

The incidence of vomiting was recorded initially and every two hours for the first four hours and every four hours for the next eight hours (up to 12 hours). The data are presented in Table XLIX.

Table XLIX
Episodes of Vomiting

Time of	Drug		Frequency						
Observation	Group	0	1	2	3	4	> 5	Patients	
Initially	HALDOL	0	2	4	5	7	5	23	
(Pre-Study Drug)	Placebo	0	1	5	5	7	2	20	
During First 2-Hour	HALDOL*	6	4	3	0	0	0	13	
Post-Study Drug	Placebo	2	0	6	1	1	0	10	
During 2-Hour to	HALDOL#	14	4	4	1	C	0	23	
4-Hour Period	Placebo	7	0	10	3	0	0	20	
During 4-Hour to	HALDOL**	22	1.	0	0	0	0	23	
8-Hour Period	Placebo	8	4	7	0	0	0	19	
During 8-Hour to	HALDOL**	22	0	0	0	0	0	22	
12 Hour Period	Placabo_	7	7	3	0	0	0	17	

^{*}Statistically significantly fewer episodes of vomiting during this period (P < .05, Rank "t" Test); **P < .01

The data demonstrate that the response to HALDOL, in a single 1.0 mg dose administered intramuscularly, was significantly (P <.05 and in some instances P <.01) greater at each evaluation point than to placebo.

The data are presented graphically in Figure 9. Of the 23 HALDOL patients, 12 (52%) were free of vomiting during the entire 12-hour period of evaluation; whereas, only 6 (30%) of the placebo patients remained free of vomiting.

An evaluation of the incidence of vomiting reveals significantly (P<.01) less vomiting in the HALDOL-treated group than in the placebo-treated group during the 12-hour observation period.

The duration of effectiveness is further demonstrated by an evaluation of the incidence of vomiting during the 4 to 12-hour observation period. This observation reveals a significant (P < .01) difference in the cumulative score between the two treatments in favor of HALDOL.

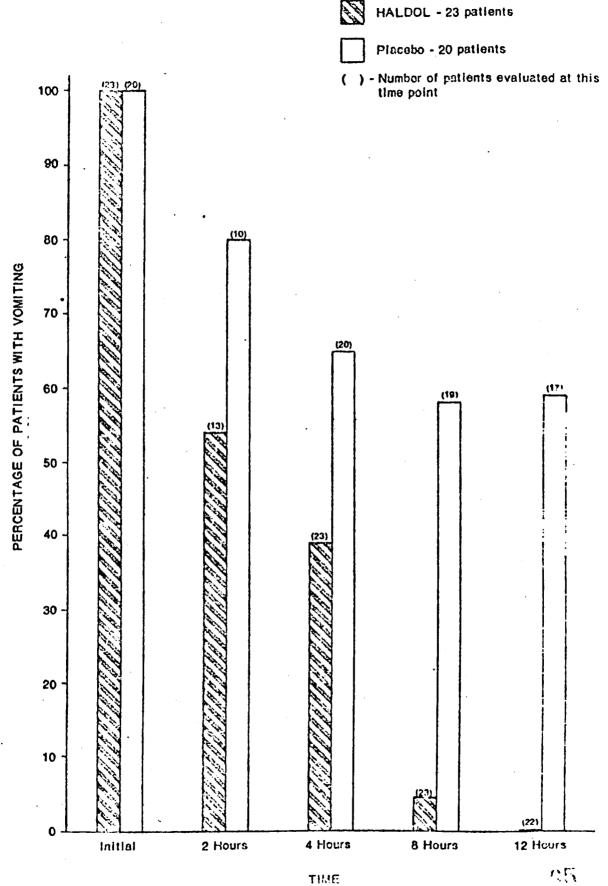
The occurrences of nausea during the 12-hour post-treatment period are presented in Table L.

Table L Occurrences of Nausea

1	Drug	Seve	rityt	of Naus	ca	Total
Time of Observation	Group	0+	l	2	3	Patients
Initially	HALDOL	0	0	6	17	23
(Pre-Study Drug)	Placebo	0	0	6	14	20
During First 2-Hour	HALDOL	3	3	7	0	13
Post-Study Drug	Placebo	1	1,	6	2	10
During 2-Hour to	HALDOL	3	9	8	3	23
4-Hour Period	Placabo	3	2	9	6	20
During 4-Hour to	HALDOL*	15	6	0	2	23
8-Hour Period	Placebo	5	1	13	0	19
During 8-Hour to	HAIDOL*	19	2	0	1	22
12-Hour Period	Placebo	5	/ <u>}</u>	6	2	17

^{*}O=None, 1=Mild, 2=Moderate, and 3=Marked
*Statistically significantly less nausea among HALDOL patients
(P<.05, Rank "t" Test)

Figure 9



An evaluation of these data clearly demonstrates that the severity of nausea experienced by the HALDOL-treated patients was significantly less than that experienced by the placebo-treated patients at the 8 and 12-hour evaluation points. The data are presented graphically in Figure 10.

The investigator's global or overall evaluation at the end of therapy is presented in Table LI.

Table LI Global Evaluation

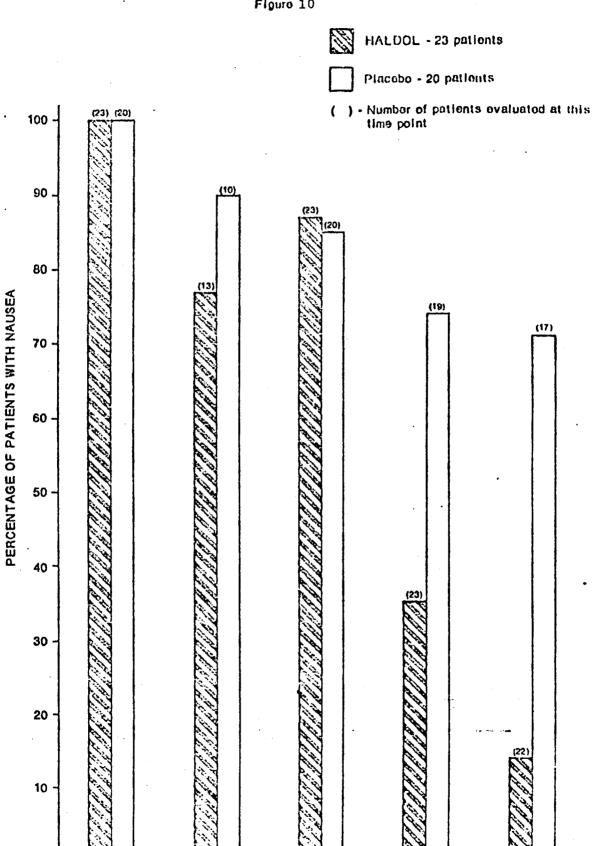
Drug		Total			
Group	Marked	Moderate	Minimal	Unchanged	Patients
HALDOL	7	15	1	0	23
Placebo	2	3	7	8	20

A review of these data clearly reveals that the response of the patients to HALDOL treatment was significantly (P < .01) superior to that on placebo treatment. Marked to moderate responses to treatment were experienced by 22 (96%) of the 23 patients receiving HALDOL but by only 5 (25%) of the 20 patients receiving placebo.

Vital signs were observed initially and after 2-hours, and except for a small, but statistically significant difference in respiration between the two groups, no other significant differences were noted.

No side effects were observed in either drug group during the course of the study.

In summary, the intramuscular administration of HALDOL in a single dose of 1.0 mg was shown to have superior effective ness to placebo in the treatment of the nausea and vomiting as a result of gastrointestinal disorders. The prolonged effect of HALDOL is demonstrated by the significant difference in response during the 4 to 12-hour period in favor of HALDOL.



initial

12 Hours

67

8 Hours

4 Hours

TIME

2 Hours

3. Christman, R.S., M.D. (14)
A double-blind evaluation of the antiemetic properties
of nonhospitalized patients with nausea and vomiting
as a result of gastrointestinal disorders.

Fifty patients who required antiemetic treatment for moderate to severe vomiting with nausea were entered into the study.

The characteristics of the 50 patients are shown in Table LII. Either HALDOL 1.0 mg or placebo was administered intramuscularly as a single dose within four hours of an episode of vomiting.

Table LII
Patient Characteristics

	Drug	Age			Sex	We	Total	
	Group	Mean	Range	Male	Female	Mean	Range	Patients
.	HALDOL	50.2	21-70	8	17	152.3	120-214	25
	Placebo	44.0	32-67	7	18	153.0	101-218	25

Patients were evaluated for 12 hours post-drug administration.

The incidence of vomiting was recorded initially and every two hours for the first four hours and every four hours for the next eight hours (up to 12 hours). The data are presented in Table Lill.

Table LIII
Episodes of Vomiting

Drug	Frequency						Total
Group	0	1	2	3	4	≥5	Patients
HALDOL	0	2	4	7	- 8	4	25
Placebo	0	Ö	5	14	4	2	25
HALDOL*#	16	9	C	ŋ	O	0	25
Placebo	- 3	23	1	0	0	0	25
	24	1	0	0	0	O	25
	17	7	1	0	0	0	25
HALDOL	24	1	Û	0	0	ن	25
Placebo	24	0	0	0	0	0	24
HALDOL	25	0	0	0	0	0	?5
Plecebo	24	0	0	0	0	0	24
	Group HALDOL Placebo HALDOL** Placebo HALDOL* Placebo HALDOL Placebo HALDOL Placebo	Group 0 HALDOL 0 Placebo 0 HALDOL* 16 Placebo -3 HALDOL* 24 Placebo 17 HALDOL 24 Placebo 24 HALDOL 25 HALDOL 25	Group 0 1 HALDOL 0 2 Placebo 0 0 HALDOL** 16 9 Placebo -3 21 HALDOL* 24 1 Placebo 17 7 HALDOL 24 1 Placebo 24 0 HALDOL 25 0	Group 0 1 2 HALDOL 0 2 4 Placebo 0 0 5 HALDOL** 16 9 0 Placebo -3 21 1 HALDOL** 24 1 0 Placebo 17 7 1 HALDOL 24 1 0 Placebo 24 0 0 HALDOL 25 0 0	Group 0 1 2 3 HALDOL 0 2 4 7 Placebo 0 0 5 14 HALDOL** 16 9 0 0 Placebo -3 21 1 0 HALDOL** 24 1 0 0 Placebo 17 7 1 0 HALDOL 24 1 0 0 Placebo 24 0 0 0 HALDOL 25 0 0 0	Group 0 1 2 3 4 HALDOL 0 2 4 7 8 Placebo 0 0 5 14 4 HALDOL** 16 9 0 0 0 Placebo -3 21 1 0 0 HALDOL* 24 1 0 0 0 Placebo 17 7 1 0 0 HALDOL 24 1 0 0 0 Placebo 24 0 0 0 0 HALDOL 25 0 0 0 0	Group 0 1 2 3 4 ≥5 HALDOL 0 2 4 7 8 4 Placebo 0 0 5 14 4 2 HALDOL** 16 9 0 0 0 0 Placebo -3 21 1 0 0 0 HALDOL* 24 1 0 0 0 0 HALDOL 24 1 0 0 0 0 Placebo 24 0 0 0 0 0 HALDOL 25 0 0 0 0 0

^{*}Statistically significantly fewer episodes of vomiting during this period (P < .05, Rank "t" Test), **P < .01

The data demonstrate that the response to NALDOL in a single 1.0 mg dose administered intramuscularly was significantly (P <.05 and in some instances P <.01) greater at the 2 and 4-hour post-treatment periods than was placebo. The effectiveness of HALDOL was maintained at the 8 and 12-hour observation periods, however, the responses to placebo were also high at these points resulting in lack of significant differences.

The data are presented graphically in Figure 11.

During the 12-hour observation period, 16 (64%) of the 25 patients receiving HALDOL were free of vomiting, whereas, only 3 (12%) of the 25 patients receiving placebo were free of vomiting.

An evaluation of the incidence of vomiting during the 12-hour observation period reveals that the HALDOL group vomite significantly (P < .01) less often than did the group on placebo

The occurrences of nausea during the 12-hour post-treatment period are presented in Table LIV.

	Drug	Sev	Total			
Time of Observation.	Group	0	1	2	3	Patients
Initially	HALDOL	0	1	12	12	25
(Pre-Study Drug)	Placebo	0	1	20	4	25
During First 2-Hour	HALDOL*	0	21	. 4	0	25
Post-Study Drug	Placebo	0	14	10	1	25
During 2-Hour to	HALDOL**	8	16	1	0	25
4-Hour Period	Placebo	0	21	4	0	25
During 4-Hour to	HALDOL*	16	9	0	0	2.5
8-liour Period	Placebo	8	16	0	0	24
During 8-Hour to	HALDOL	24	1	0	0	25
Dallin, C nout to						

Table LIV Occurrences of Nausea

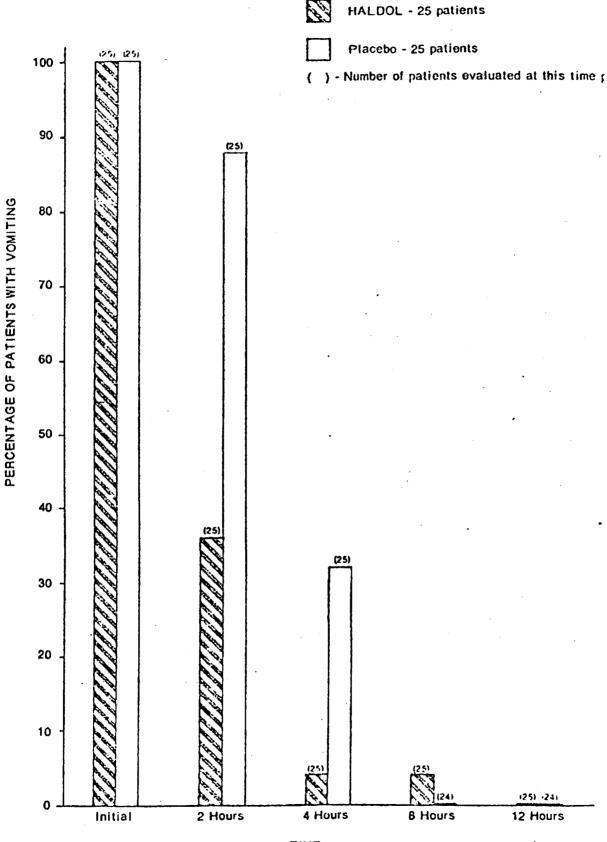
Placebo

22

^{+ 0 -} None, 1 - Mild, 2 - Moderate, and 3 - Marked.

^{*}Statistically significantly less nausea among HALDOL patients (P<.05, Rank "t" Test), **P<.01

Figure 11



An evaluation of these data demonstrate that the severity of nausea experienced by the HALDOL group was significantly (P < .05 and in some instances P < .01) less than that experienced by the placebo group at the 2, 4 and 8-hour observation points. The data are presented graphically in Figure 12.

The data may also be compared by summing each patient's post-drug cumulative nausea rating over the 4-hour and 12-hour observation periods. These comparisons show that the severity of nausea scores for the patients on placebo were significantly (P < .01) higher (and the nausea, therefore, more severe) than for the patients on HALDOL in both time periods.

The investigator's global or overall evaluation at the end of therapy is presented in Table LV.

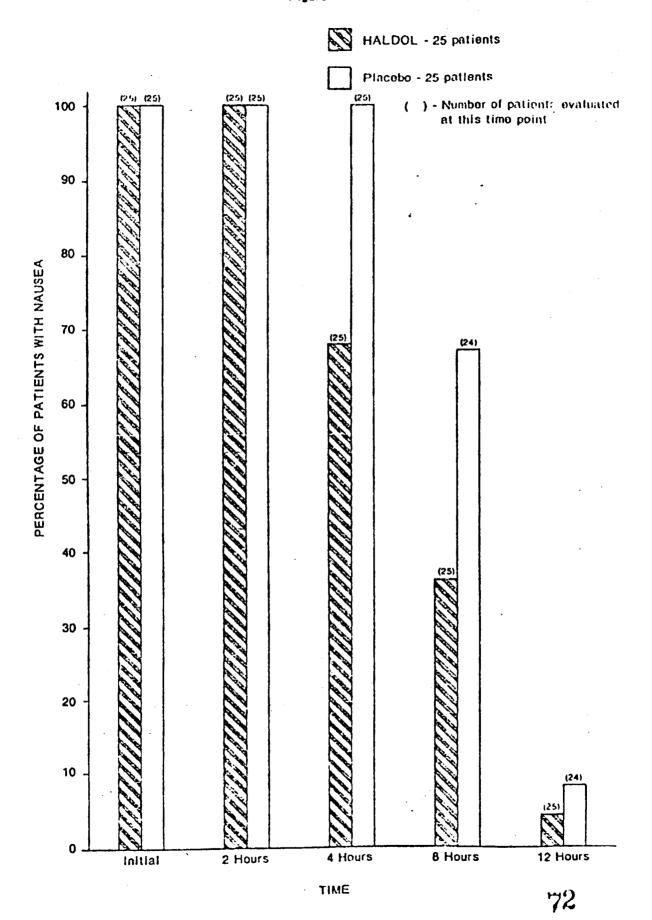
Table LV Global Evaluation

Drug		Total			
Group	Marked	Moderate	Minimal	Unchanged	Patients
HALDOI.	10	11	4	0	25
Placebo	1	10	13	1	25

An analysis of these data clearly reveals that the response of the patients to HALDOL treatment was significantly (P<.01) superior to that of placebo. Marked to moderate responses to treatment were experienced by 21 (84%) of the 25 patients receiving HALDOL but by only 11 (44%) of the 25 patients receiving placebo.

Vital signs were observed initially and after 2-hours with no significant difference being observed between the two groups

Two patients in the HALDOL drug group reported side effects one reported blurred vision and the other reported drowsiness.



In summary, the intramuscular administration of HALDOL in a single dose of 1.0 mg was shown to have superior effectiveness to placebo in the treatment of nausea and vomiting due to gastrointestinal disorders. The reduction of vomiting during the first 4-hours and nausea during the first 8-hours by HALDOL was significantly greater than that by placebo.

4. Robbins, E.L., M.D. (15)
A double-blind evaluation of the antiemetic properties of HALDOL in institutionalized geriatric patients with nausea and vomiting as a result of gastrointestinal disorders.

Thirty patients from a nursing home population were selected for study. All required antiemetic treatment for moderate to severe vomiting with nausea.

Two patients were excluded from the analysis because of failure to vomit prior to drug administration as required by protocol. The characteristics of the remaining 28 patients are shown in Table LVI. Either HALDOL 1.0 mg or placebo was administered intramuscularly as a single dose within four hours of an episode of vomiting.

Table LVI
Patient Characteristics

Drug	Age			Sex	We	Total	
Group	Mean	Range	Male	Female	Mean	Range	Cases
HALDOL	81.7	72-91	2	12	120.6	88-157	14
Placebo	85.0	76-95	1.	13	119.8	90-169	14

Patients were evaluated for 12 hours post-drug administra-

The incidence of vomiting was recorded initially and every two hours for the first four hours and every four hours for the next eight hours (up to 12 hours). The data are presented in Table LVII.

Table LVII

			Episodes	of Vomiti	በደ		
	Drug		No. or	Episoces	of Vomi	ting or I	Retching
Time	Group	N*	0	1	2	3	→ 4
Previous	HALDOL	14	0	9	4	1	0
12 Hours	Placebo	14	0	10	3	0	1
	HALDOL	14	13	11	0	0	0
+ 2 Hrs.	Placebo	14	10	2	0	1	1
	HALDOL	14	13	1	U	0	0
+ 4 Hrs.	Placebo	11	8	3	0	0	0
	HALDOL	121	12	0	0	0	0
+ 8 Hrs.	Placebo	-8	6	2	0	0	0
	HALDOL	12	12	0	0	0	0
+ 12 Hrs.	Placebo	6	6	U	0	0	0

^{*}N=Number of patients

A review of the table indicates that the frequency of vomiting was reduced in both groups within two hours. The number of episodes of vomiting during the several observation periods was lower in the HALDOL group but not significantly different from the placebo group. This lack of difference in groups may have been due to the fact that a known antiemetic was administered whenever a patient developed vomiting after the study medication had been given. This action was taken because of the advanced age (mean 83 years) of the patients. For that reason, nine patients (2-HALDOL, 7-placebo) were dropped from the study prior to completion of the 12-hour period. Fifty percent of the placebo patients (7 of 14) but only 14% of the HALDOL patients (2 of 14) required supplemental antiemetic medication during the study. This difference is statistically significant (P < .05) in favor of HALDOL.

During the 12-hour observation period, 12 (86%) of the 14 HALDOL-treated patients, but only 6 (43%) of the 14 placebo patients were free of vomiting. This difference is statistically significant (P < .05) in favor of HALDOL.

The occurrences of nausea during the 12-hour posttreatment period are presented in Table LVIII.

Table LVIII Occurrences of Nausea

1	Drug		Severity of Nausea						
Time	Group	И*	None	Mild	Moderate	Marked			
Previous	HALDOL	14	0	4	6	4			
12 Hours	Placebo	14	1	2	8	3			
	HALDOL	14	12	1	1	. 0			
+ 2 Hrs.	Placebo	14	8	3	1	2			
	HALDOL	14	12	0	2	0			
+ 4 Hrs.	Placebo	11	6	3	1	1			
	HALDOL	12	12	0	0	0			
+ 8 Hrs.	Placebo	8	6	1	1	0			
	HALDOL	12	12	0	0	0			
+ 12 Hrs.	Placebo	6	5	1	0	0			

^{*}N=Number of patients

A significant (P < .05) difference in the severity of nausea occurred in the 4-hour observation period in favor of HALDOL. As with the data on vomiting, the lack of significance at other evaluation points may be attributed to the high incidence of placebo drop-out.

The investigator's global evaluation at the end of therapy is presented in Table LIX.

Table LIX
Global Evaluation

Drug		Total				
Group	Marked	Moderate	Minimal	Unchanged	Worse	Patients
HALDOL	12	0	0	2	0	14
Placebo	5	3	0	4	2	14

Review of the global data reveals a significant (P < .05) difference between the therapeutic responses of the two treatments in favor of HALDOL.

Vital signs were observed initially and after 2-hours, and, except for a small but statistically significant dif-ference in body temperature between the two groups, no other significant differences were noted.

With the exception of one placebo patient who showed a significantly increased pulse rate, no adverse reactions were reported.

In summary, the intramuscular administration of HALDOL in a single dose of 1.0 mg was shown to be statistically more effective than placebo in the reduction of nausea and vomiting due to gastrointestinal disorders in a geriatric population during the 12-hour period following antiemetic therapy.

5. LaRose, J.B., M.D. (16)
A double-blind evaluation of the antiemetic properties
of NALDOL in nonhospitalized patients with nausea and
vomiting as a result of gastrointestinal disorders.

Twelve patients who required antiemetic treatment for moderate to severe vomiting with nausea as a result of gastrointestinal disorders were entered into the study and accepted for analysis. Seven patients received HALDOL 1.0 mg administered intramuscularly, and five patients received placeboas a single dose within four hours of an episode of vomiting. Because of the small sample in this study, the details of the data are not presented in this summary but can be found in the tabulation and analysis of this investigator's study.*

During the 12 hours post-drug administration, a greater reduction in frequency of vomiting and the occurrence of severity of nausea was apparent in the HALDOL drug group as compared to the placebo drug group; however, the difference was not statistically significant.

A review of the global evaluations by the investigator shows that 6 of the 7 HALDOL-treated patients and 3 of the 5 placebo patients experienced "marked" to "moderate" responses; however, the difference was not statistically significant.

Vital signs were not significantly different between the two treatment groups, and no side effects were reported by either group.

In summary, the sample was too small to demonstrate a significance of the differences which were shown to exist in favor of HALDOL (1.0 mg, I.M.) in reducing the episodes of

^{*} See exhibit Vol. 16 Pg. 4648

vomiting and the severity of nausca in patients with gastrointestinal disorders.

6. Combined Analysis of Five Investigators
(Leslie, R., Weinstein, R., Christman, R.,
Robbins, E., and LaRose, J.) (17)

A double-blind evaluation of the antiemetic properties
of HALDOL in hospitalized and nonhospitalized patients
with nausea and vomiting as a result of gastrointestinal
disorders.

The above named investigators used the same protocol and case report form to study the intramuscular administration of HALDOL at a single dose of 1.0 mg in the therapeutic treatment of nausea and vomiting due to gastrointestinal disturbances.

The patient population used in the combined analysis of these five studies is shown in Table LX.

A total of 189 patients were entered into the five studies. Of these patients, 12 were excluded as explained in the individual analyses. The final analysis included 92 patients in the HALDOL and 85 in the placebo group.

Table LX
Patient Population

		Number o	f Patients	
Investigator's Name	Exc	luded	Inc	Luded
Name	HALDOL	Placebo	HALDOL	Placebo
R. Leslie, M.D.	7	3 ·	23	21
R. Weinstein, M.D.	0	0	23	20
R. Christman, M.D.	Ŏ	0	25	25
E. Robbins, M.D.	0	2	14 .	• 14
J. LaRose, M.D.	0	0	7	5
Total	7	5	92	85

The characteristics of the patients analyzed are presented in Table LXI.

Table LXI
Patient Characteristics

Drug Age		Sex		Wei	ght	Total		
Group	Mean	Range	Male	Female	Mean	Range	Patients	
HALDOL	55.9	21-91	20	72	147.7	88-301	92	
Placebo	54 4	17-95	17	68	142.1	90-253	85_	1
FIACEDO	23.3	1 - 7 -		·· ·		· · · · · · · · · · · · · · · · · · ·		

Patients were evaluated for 12 hours post-drug administration.

The episodes of vomiting were recorded initially and every two hours for the first four hours and every four hours thereafter up to 12 hours. These data are presented in Table LXII.

Table LXII
Episodes of Vomiting

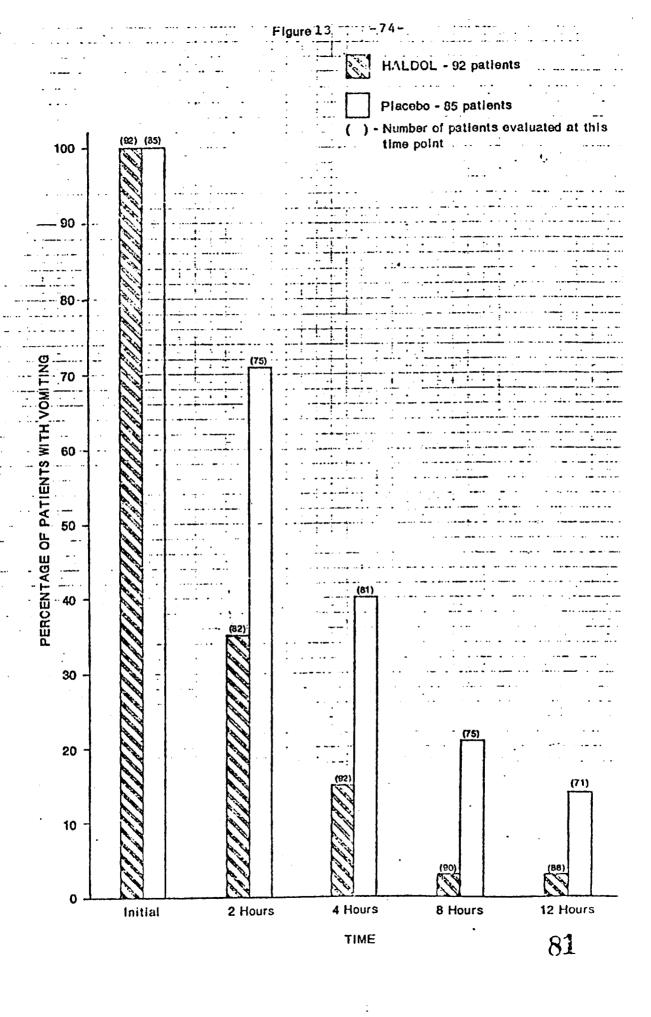
	- F									
Time of	Drug	Drug +		Frequency						
Observation	Group	N ⁺	0	1	2	3	4	>,5		
Initially	HALDOL	92	0	13	20	28	19	12		
: (Pre-Study Drug)	Placebo	85	0	11	16	26	22	10		
During First 2-Hour	HALDOL**	82	53	22	7	0	0	9		
Post-Study Drug	Placebo	75	22	34	13	4	2	0		
	HALDOL**	92	78	8	4	2	0	0		
4-Hour Period	Placebo	81	49	16	13	3	0	0		
During 4-Hour to	HALDOL**	90	87	2	0	1	0	0		
8-Hour Period	Placebo	75	59	8	8	0	0	0		
During 8-Hour to	HALDOL*	88	85	3	0	. 0	0	0		
12-Hour Period	Placebo	71	61	7	3	0	0	0		

Number of patients evaluated during this period *Statistically significantly fewer episodes of vomiting during this particular period (P<.05, Rank "t" Test) **P<.01

A review of the data shows that there were fewer episodes of vomiting in the HALDOL-treated group than in the placebo group. The difference between the two treatments in the episodes of vomiting was significant (P < .01) for the first three evaluation periods and (P < .05) for the fourth evaluation point favoring HALDOL. The data are presented graphically in Figure 13.

The incidence of vomiting in the HALDOL drug group was significantly (P<.01) less than in the placebo group over the 12-hour evaluation period.

During the 12-hour observation period, 59 (64%) of the 92 HALDOL patients but only 21 (25%) of the 85 placebo patients were free of vomiting. This difference between the two treatments is statistically significant (P < .01) in favor of HALDOL.



The occurrence of nausea after treatment is presented in

Table LXIII.

Table LXIII

	Occurrenc	e o				
Time of	Drug		S	everityt	of Nause	a
Observation	Group	N+	0	1	2	3
Initially	HALDOL	92	0	7	4.5	40
(Pre-Study Drug)	Placebo	85	1	3	56	25
During First 2-Hour	HALDOL	82	21	34	26	. 1
Post-Study Drug	Placebo	75	12	36	22	5
During 2-Hour to	HALDOL	92	28	29	28	7
4-Hour Period	Placebo	81	9	41	24	7
During 4-Hour to	HALDOL **	90	49	18	19	4
8-Hour Period	Placebo	74	21	21	32	0
During 8-Hour to	HALDOL*	88	60	6	19	3
12-Hour Period	Placebo	71	35	9	25	2

⁺Number of patients evaluated during this period

There were fewer occurrences of nausea among the HALDOL patients than among the placebo patients. The difference between the two treatments in the occurrence of nausea was significant (P<.01) at the 8-hour evaluation point and (P<.05) at the 12-hour evaluation point favoring HALDOL. The data are presented graphically in Figure 14.

According to the two cumulative severity score distributions made by summing each patient's nausea rating during the 2 to 12-hour observation periods, the severity of nausea for the placebo patients is significantly (P < .01) higher than that of the HALDOL patients.

The investigators' global evaluations recorded at the end of therapy is presented in Table LXIV.

Table LXIV Global Evaluation

Drug		∫ Total				
Group	Marked	Moderate	Minimal	Unchanged	Worse	Patients
HALDOL	51	32	6	3	0	9.2
Placebo	19	24	24	16	2	85

^{†0=}None, 1=Mild, 2=Moderate, and 3=Marked

^{*}Statistically significantly less nausea among the HALDOL patients (P < 0.05, Rank "t" Test) **P < 0.01



