progress in this field, it will be essential that readers and workers have access to the actual observations, not some derived interpretation of the primary results.

Comment

I have read with great interest this important paper on the comparison of insulin and 2-DG as stimulants in detecting incompleteness of vagotomy (*Gut*, February 1968). This will unquestionably be a landmark paper.

I urge that in any future papers on gastric secretion that you report results in standard terms of volume, concentration, and output per unit time. By sheer historical accident Hollander arbitrarily selected certain values for positive and negative insulin tests and thereafter all writers on this subject have slavishly adhered to his unsupported criteria. Now you extend the misdemeanour to 2-DG. To make

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We agree with Dr Grossman that the analysis of results of tests to determine the completeness of surgical vagotomy is a matter for debate and in our analyses have used the Hollander criteria as these have, in the past, correlated well with the clinical progress of our patients. We have analysed the results of the comparison between insulin and 2 deoxy-D-glucose in several other ways (Table I) and find a close similarity in the interpretations between the two stimuli. For those who would wish to make their own

TABLE I

Criteria	Insulin		2 Deoxy-D-Glucose	
	Positive	Negative	Positive	Negative
Hollander	22	15	26	11
Basal acid output > 2 m-equiv/hr	21	16	20	17
Increased volume after stimulus	16	21	17	20
Increased acid output > 2 m-equiv/hr after stimulus	11	26	20	17
Any one or more of above	32	5	33	4

TABLE II

Insulin (m-equiv/hour)					2 Deoxy-D-Glucose (m-equiv/hr)				
	Basal	First hour	Second hour	Hollander		Basal	First hour	Second hour	Hollander
1	2:20	1:75	0:59	—	1	1:72	1:38	1:37	—
2	3:47	1:26	1:73	—	2	2:87	3:18	4:61	—
3	3:21	2:78	2:43	—	3	3:88	2:05	3:85	—
4	0:21	0:21	0:19	—	4	0:71	0:31	0:28	—
5	2:22	0:68	0:42	—	5	0:60	0:32	0:41	—
6	2:07	1:96	0:85	—	6	1:92	0:63	1:03	—
7	3:86	3:31	4:63	—	7	3:86	3:32	4:64	—
8	0:74	0:79	0:81	—	8	4:26	2:53	3:62	—
9	2:60	1:24	0:56	—	9	2:78	4:25	5:19	—
10	12:36	14:97	6:50	—	10	8:94	19:12	8:51	—
11	0:53	0:37	0:56	—	11	1:01	0:90	1:23	—
12	0:00	3:19	6:12	+	12	0:54	4:55	7:32	+
13	5:46	8:37	10:70	+	13	6:48	8:89	19:97	+
14	2:28	3:96	7:62	+	14	4:04	7:47	10:25	+
15	4:38	2:94	11:63	+	15	4:61	13:40	17:87	+
16	2:23	3:09	7:96	+	16	3:16	12:74	16:21	+
17	5:20	14:69	31:33	+	17	5:96	20:48	28:57	+
18	1:22	1:44	2:29	+	18	2:80	4:43	7:52	+
19	1:92	0:51	1:67	+	19	1:36	5:80	8:97	+
20	0:00	0:00	0:37	+	20	0:96	4:96	4:99	+
21	0:00	0:00	2:25	+	21	0:00	3:12	5:11	+
22	2:51	0:00	3:31	+	22	3:44	6:47	6:40	+
23	0:72	0:35	1:18	+	23	0:57	5:11	6:97	+
24	0:00	0:00	5:41	+	24	4:63	5:31	8:99	+
25	2:46	1:83	13:05	+	25	4:70	20:85	30:02	+
26	1:49	0:71	5:89	+	26	0:00	2:84	4:17	+
27	3:46	1:19	3:72	+	27	6:26	8:24	4:40	+
28	4:50	2:12	7:44	+	28	2:87	6:86	8:55	+
29	3:07	2:13	3:50	+	29	0:61	1:27	1:64	+
30	2:45	2:01	3:36	+	30	1:65	1:93	2:63	+
31	0:93	0:51	1:12	+	31	0:49	1:22	1:89	+
32	1:02	0:33	2:13	+	32	0:44	1:79	3:46	+
33	6:00	3:23	7:63	+	33	10:52	11:75	10:54	+
34	0:86	0:61	0:13	—	34	0:84	1:60	3:16	+
35	3:24	2:46	3:35	—	35	4:38	3:56	1:84	+
36	1:80	0:93	1:72	—	36	3:12	2:01	5:10	+
37	1:24	0:65	0:33	--	37	0:92	1:56	1:20	+