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The gelatin film test is performed as follows: A 1/5 dilution is made by adding sufficient quantity of feces to 4 ml. of distilled water in a test tube with a graduation mark at 5 ml. Further dilution can be made as desired. One large drop (approximately 0.1 ml.) of the well mixed specimen is placed on an unfixed x-ray gelatin film such as is used in routine hospital practice. The film strip may be clipped to a cardboard to prevent curling. The film is incubated at 37°C for one hour. (Although 37°C is recommended, room temperature is satisfactory if the incubation period is prolonged to 15 to 2 hours.) After incubation the film is washed in a stream of cold water with gentle rubbing. The result is now apparent. A clearing at the site of the drop indicates enzyme activity. A complete clearing is designated as 44, and a slight clearing, only at the edge of the drop as 1/. If the drop is small, or if the concentration of the specimen is too great, the material will dry and cake. A normal control, as well as a control of the diluent should be used for comparison. Proper bacteriological precautions should be taken when dealing with cases suspected of enteric infections. We have routinely used both a 1/5 and a 1/10 dilution of stool.

December 1, 1948

Harry Shwachman, M.D. Paul R. Patterson, M. D.

Table 1

Stool trypsin in normal and sick individuals exclusive of pancreotic fibrosis, arranged according to age.

	No. of cases	Positive trypsin		Negative trypsin	
		No. of cases	Per cent	No. of cases	Per cent
Prematures	28	28	100		
Infants	233	233	95.7	10	4.3
2 - 5 years	133	117	88.0	16	12.0
5 - 10 years	74	40	54.0	34	46.0
Over 10 years	32	8	25.0	24	75.0
	500				

Table II

Stool trypsin in patients with Pancreatic Fibrosis

	No. of Cases	Positive trypsin	Negative trypsin
Infants	29	7	22
2 - 5 years	13	0	13
5 - 10 years	7	0	7
Over 10 years	1	0	1
	50	7	43

Table III

Relation of number of stools examined to findings in pancreatic fibrosis.

No. of patients	No. of stools	No. of negative	No. of positive
examined	examined of each	stool trypsin	stool trypsin
3	1	3	0
17	2	32	2
12	3	31	5
6	4	24	0
3	5	15	0
2	6	11	1
2	7	13	1
2	10	20	0
1	12	12	0
1	18	18	0
1	22	<u>20</u> 209	2
50	220	209	11

Table IV

Data from seven cases of pancreatic fibrosis with positive findings.

Patient No.	No. of stools examined in each patient	No. negative stool trypsin	No. positive stool trypsin
27	22	20	2
47	7	6	1
21	6	5	1
17	3	2	1
36	3	2	1
46	2	0	2
48	3	0	3
7	46	35	11