

REPORT ON A SIMPLE TEST FOR PREGNANCY (ORTHO GRAVINDEX PREGNANCY TEST)

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The Ortho Research Foundation has provided a simple test carried out on blackened slides for the diagnosis of pregnancy. I was supplied with a stock of the required antiserum etc. for trial and I carried out a series on 114 cases in correlation with the Toad Test. The following is a description of the technique of the test with a report on the individual tests carried out.

DIRECTIONS FOR USE OF THE ORTHO GRAVINDEX PREGNANCY TEST

1. Using disposable capillary pipettes, place one drop of Pregnancy antiserum on black slide.
2. Add one drop of first morning specimen of urine.
3. *Mix well* with wooden applicator stick. Rotate for 30 seconds.
4. Add *two drops* of thoroughly shaken Latex

antigen. *Mix well*, spreading over an area of a half dollar, start timer.

5. Rock slide slowly and gently.
6. Read for agglutination at the end of *two minutes*.

INTERPRETATION

Agglutination within 2 minutes —

Not pregnant as tested.

No Agglutination within 2 minutes —

Pregnant as tested.

Negative Control: Use 1 drop of saline in place of urine.

- Please note:*
1. All reagents must be at room temperature before use.
 2. Final readings must be made at two minutes. Agglutination after that time must be disregarded.

Test No.	Age	L.M.P.	Specific Gravity	T.T.	Ortho	Date of Test
1	?	?	1008	Neg.	Neg.	22/1/64
2	20	?	1008	Positive 2/2	Positive	22/1
3	48	10/11/63	1010	Negative	Negative	22/1
4	25	2½ mths.	Insuff.	Negative	Negative	22/1
5	32	6/12/63	1011	Positive 1/2	Positive	23/1
6	22		Insuff.	Positive 1/2	Positive	24/1
7	? Mrs. Tan	14/12/63	Insuff.	Negative	Positive	25/1
8	30	25/11/63	1013	Positive 2/2	Positive	25/1
9	35	12/12/63	1009	Negative	Positive	29/1
*10	29	10/12/63	1020	Negative	Positive	29/1
11	?	2	1010	Negative	Negative	30/1
12	27	over 2 mths.	1012	Positive	Positive	30/1
13	32		1015	Positive	Positive	30/1
14	35	14/12/63	1010	Positive	Positive	30/1
15	40	3 mths.	1015	Positive	Positive	30/1
16	27	4/12/63	1012	Positive 2/2	Positive	31/1

Test No.	Age	L.M.P.	Specific Gravity	T.T.	Ortho	Date of Test
17	?	17/11/63	1012	Positive 2/2	Positive	31/1
18	31	over 7 mths	1013	Negative	Negative	31/1
19	?	?	1016	Positive	Positive	31/1
20	?	?	1008	Negative	Negative	1/2
21	?	? Pregnancy	1005	Negative	Negative	1/2
22	?	?	1010	Positive 2/2	Positive	1/2
23	26	28/11/63	1004	Positive 2/2	Positive	3/2
24	36	8/12/63	1008	Negative	Positive	4/2
25	30	?	1004	Negative	Positive	4/2
26	?	?	1011	Negative	Negative	4/2
27	23	18/12/63	1018	Positive	Positive	6/2
28	20	20/12/63	1011	Negative	Negative	6/2
29	29	?	1008	Negative	Negative	4/2
30	29	?	1008	Negative	Negative	11/2
31	?	?	1014	Negative	Negative	12/2
32	20	20 days late	1008	Positive 1/2	Positive	"
33		21 days	1009	Positive 2/2	Positive	"
34	33	?	1008	Negative	Negative	18/2
35	35	17 days	1010	Negative	Negative	
36	?	?	1012	Negative	Positive	19/2
37	29	?	1028	Negative	Negative	
38	34	?	1014	Negative	Negative	
39	30	?	1025	Positive 2/2	Positive	
40	31	?	1026	Positive	Positive	20/2
41	?	18 days	1012	Negative	Positive	
42	39	16/1/64	1016	Negative	Negative	
43	39	?	1019	Negative	Negative	21/2
44	?	?	1016	Negative	Negative	
45	24	?	1022	Negative	Negative	
46	?	?	1018	Negative	Negative	
47	?	?	1014	Negative	Negative	
48	?	?	1016	Positive	Positive	24/2
49	?	21 days.	1026	Negative	Negative	"
50	24	4 weeks	1014	Negative	Negative	
51	?	?	1012	Positive 2/2	Positive	25/2
52	48	?	1014	Negative	Negative	26/2
53	?	28/12/63	1022	Negative	Positive	
54	?	?	1013	Negative	Negative	28/2
55	42	?	1010	Positive 2/2	Positive	
56	35	?	1011	Positive 1/2	Positive	

Test No.	Age	L.M.P.	Specific Gravity	T.T.	Ortho	Date of Test
57	?	?	1011	Positive	Positive	29/2
58	?	?	1009	Positive	Positive	2/3
59	37	2 mths.	1019	Positive	Positive	
60	?	?	1010	Negative	Negative	
61	?	?	1000	Positive	Positive	3/3
				1/2		
62	?	?	1021	Negative	Negative	
63	?	?	1014	Negative	Negative	
64	44	?	1006	Negative	Negative	
65	?	?	1022	Negative	Negative	
66	29	7 weeks	1007	Negative	Positive	4/3
67	26	27/1/64	1008	Negative	Negative	
68	40	?	1008	Negative	Positive	
69	27		1002	Positive	Positive	5/3
70	30		1008	Positive	Positive	
71	?	28/12/63	1010	Negative	Negative	
72	?	?	1012	Positive	Positive	9/3
73	?	?	1026	Negative	Negative	
74	25	28/2/64	1014	Negative	Negative	
75	23	2 mths.	1021	Negative	Negative	
76	34	24/1/64	1022	Negative	Positive	
77	?	?	1020	Positive	Positive	10/3
78	?	?	1013	Positive	Positive	10/3
79	?	?	1006	Positive	Positive	11/3
80	33	18/1/64	1006	Positive	Positive	
81	?	?	1016	Negative	Positive	12/3
82	?	?	1018	Negative	Negative	
83	?	?	1014	Negative	Negative	
84	?	?	?	Negative	Negative	13/3
85	?	?	?	Positive	Positive	
				1/2		
86	?	?	1005	Positive	Positive	14/3
				2/2		
87	?	?	1006	Negative	Positive	
88	30	?	1016	Negative	Positive	16/3
89	30	?	1020	Positive	Positive	16/3
90	30	?	1016	Negative	Negative	
91	32	8 weeks	1012	Positive	Positive	17/3
92	?	?	1014	Negative	Negative	
93	?	?	1020	Negative	Negative	
94	?	?	1024	Positive	Positive	18/3
95	28	9 weeks	1018	Positive	Positive	19/3
96	?	?	1027	Positive	Positive	
97	?	?	1014	Negative	Negative	20/3
98	?	?	1016	Negative	Negative	
99	29	7/2/64	1006	Negative	Negative	23/3
100	21	Jan. 1964	1010	Positive	Positive	
101	35	28/2/64	1009	Negative	Positive	24/3
102	43	3/2/64	1018	Positive	Positive	

Test No.	Age	L.M.P.	Specific Gravity	T.T.	Ortho	Date of Test
103	?	?	1008	Negative	Negative	
104	?	?	1012	Positive	Positive	
				2/2		
105	34	?	1026	Negative	Negative	
106	?	20/1/64	1018	Positive	Positive	25/3
107	?	?	1022	Positive	Positive	
108	34	?	1022	Negative	Negative	
109	23	2½ mths.	1020	Negative	Negative	
110	28	?	1012	Negative	Positive	26/3
111	23	?	1018	Positive	Positive	
112	38	20/2/64	1016	Positive	Positive	
113	?	?	1012	Positive	Positive	
114	?	?	1014	Positive	Positive	

SUMMARY OF TESTS

1. Toad Test Negative	Ortho Test Negative	50 Cases
2. Toad Test Positive	Ortho Test Positive	49 Cases
3. Toad Test Negative	Ortho Test Positive	15 Cases
4. Repeat test of No. 3 showed Toad Test Positive (7 cases of disagreement as in 3 were not traced)	Ortho Test Positive	6 Cases
5. False Positive	Ortho Test	1 Case

From the above reports it is clearly seen that the Ortho Slide Test is more sensitive than the Toad Test. It also picks up the pregnant cases earlier than the latter.

It is a simple test, requiring very little in the

way of equipment and is quick and reasonably reliable — more so than the Toad Test.

I have to thank the Ortho Research Foundation for the supply of sera etc. to enable this trial test to be carried out.