

rK39

DAT

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2004/07/13
2004/12/26

rK39

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rK39

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Comparative study between the rK39 dipstick test and the direct agglutination test for the diagnosis of visceral leishmaniasis in South of Syria

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ABSTRACT

In the present study, we tried to compare the sensitivity and the specificity of the rK39 strips and DAT, to serodiagnose the visceral leishmaniasis disease in some endemic villages in south of Syria, in order to apply the best and the easy test in the epidemiological studies, for serodiagnosis this disease not only in symptomatic patients but also in asymptomatic and suspected cases in order to treat them early and rapidly.

Key words: rK39 strips, Direct Agglutination Test (DAT), visceral leishmaniasis, epidemiological studies.

12-6 (cutaneous leishmaniasis "CL")
 (visceral leishmaniasis "VL")
 .(3-2-1)

.(5-4-3) « - »
 -32-58-45
 2003 -2002 -2001-2000-1999-1998 36-38-33-30

.(8-7-6) (NNN)

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Indirect Fluorescent Antibody (IFA)

Enzyme-Linked Immunosorbent Assay (ELISA)

-9) Western Blot (WB) Direct Agglutination Test (DAT)
 ,(15-14-13-12-11-10

.(16) :
 DAT

.(19-18-17)

Burns

(recombinant Kinesin 39)

(20) 1993

39

230

-23-22-21)

« »

(24

.(29-28-27-26-25)

DAT

(rK39)

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: 1

70

.()

.()

6

483

: 2

6

rK39

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.DAT

3

: rK39

DAT

rK39

InBios (Strips) :rK39 3
 Protein rK39 International-USA
 (20 µl) .A/colloidal gold
 Chromatography
 10 5 (pH=7.2)

20 - 4
 () (DAT)

:DAT 5
 (V shape Grenier)
 (L. donovani)
 NaCl (Leish-Kit) (NaCl 0.9%)
 ("0.1M" + 0.9 %
 100 : (30) 1995 Meredith
 50
) 1
 (6400 : 1 100 : 1
 50
 18

: 6
 ()
 ()
 rK39

(Z test for differences in two Z : 7
 proportions)

DAT

rK39

($\alpha = 0.01$)

rK39

(18)

(rK39)

/ rK39

-35-34-33-32-31-30-28)

.(36

DAT

rK39

204)

6

483

(1) rK39

.(

138

141

:

)

Protein

35 ()

IgG

A/colloidal gold
45

.(%100)

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(3)

(2)

(1)

neg. cont

(1)

rk39

(1)

(3) (2)

.(neg. con)

(2)

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32
(% 28.4)

(% 100)

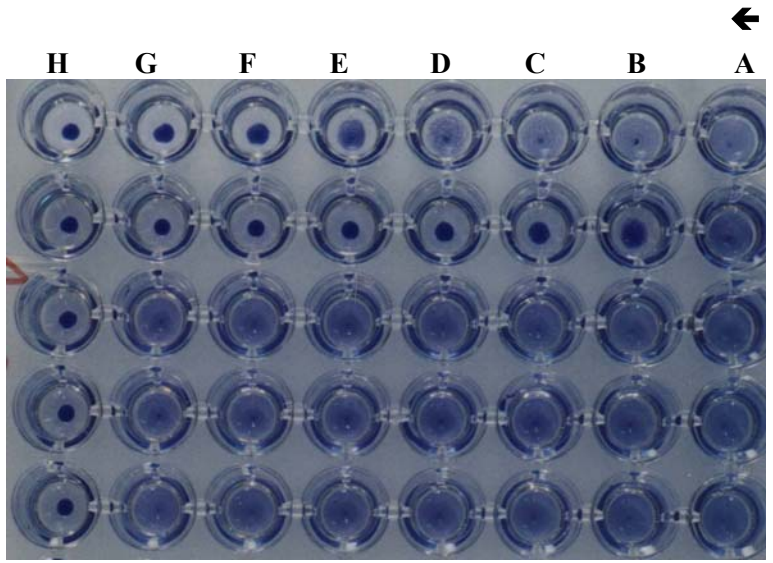
40 (% 15.6)

(1 :400)

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(1 :6400)

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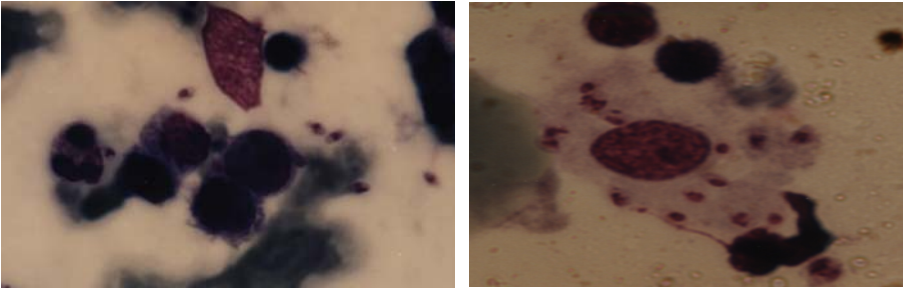
Cont 1:6400 1:3200 1:1600 1:800 1:400 1:200 1:100

(2)

← .(DAT)

(80)

(A:3) . 3 2 (-) :
 (B :3) (77)
 .(77/ 7)



B

A

(3)

(B)

(A)

0.02 rK39 (1) Z-test
.001

rK39 : (1)

Z

)

(

	rK 39	
345	345	
72	80	
%21	%23	
0.021	0.022	
2% **		
0.462		P .value

0.01

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-28-27)

(39-38-36)

.(39-38-37-29

rK39

.(29-28-27-26-25)

rK39

(Anti- rK39) rK39

.(42-41-40-32-23)

rK39

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