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A comparative study between Rose Bengal and indirect ELISA tests for detection of the antibrucella antibodies in serum of goats in Mosul city

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Abstract

This study was conducted to determine seroprevalence of brucellosis in non vaccinated goats in different areas in Mosul city and to compare Rose Bengal and indirect ELISA tests for the detection of the antibodies. A total of 102 blood serum samples were examined, representing 396 goats distributed in different areas. Results of Rose Bengal test showed that the total seroprevalence of brucellosis was (6.8%) and the highest rate in Al-Rahmania (11.1%), and lowest (7.1%) in Al-Muthana area. No seroprevalence of Brucellosis was recorded in Googjaly and Basheka areas. Indirect ELISA test showed that the total percentage was (24.5%) and the highest (55%) were reported in Al-Rahmania area and the lowest percentage was (10%) in Basheka area. The compatibility between the two tests was (0.30) on Kappa value indicating sensitivity of indirect ELISA test compared with Rose Bengal test in detection antibrucella antibodies in serum goats.

Available online at <http://www.vetmedmosul.org/ijvs>

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() *B.abortus* (GÖKHAN) ()

() Ocholi () *B.melitensis*
B.abortus

(VMRD,Inc./USA)
B.abortus *B.melitensis*
(SPSS Inc.) SPSS 11.5

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Smooth- lipopolysacharide
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Vigliocco

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11.1	2	18	61
10	2	20	80
10	1	10	40
7.6	1	13	37
7.1	1	14	41
0.0	0	10	60
0.0	0	17	77
6.8	7	102	396

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55	10	18	61
35.7	5	14	41
20	2	10	40
15.3	2	13	37
15	3	20	80
11.7	2	17	77
10	1	10	60
24.5	25	102	396

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Kappa value (0.30)

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