

The (short) story of brucellosis in western Kenya

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A lateral flow assay was used as primary screening test for brucellosis in sympatric animals and people.



- Rapid and simple
- Good performance
- Animal and human tests
- A bit expensive



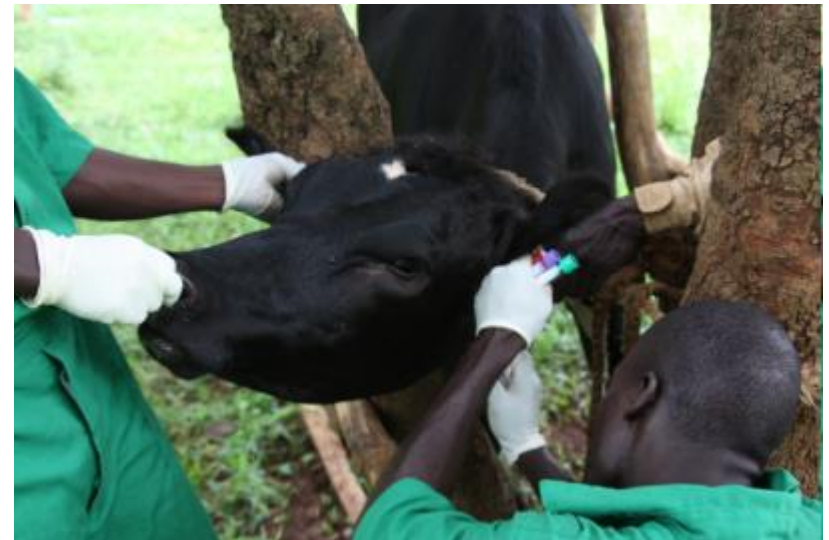
We found:



2116 people in 416 homesteads

LFA : 0.71% (95% C.I. 0.38 – 1.17)

RBT : 0.06% (95% C.I. 0.0014 – 0.32)



893 cattle in 230 homesteads

LFA : 0.31% (95% C.I. 0.06 – 0.89)

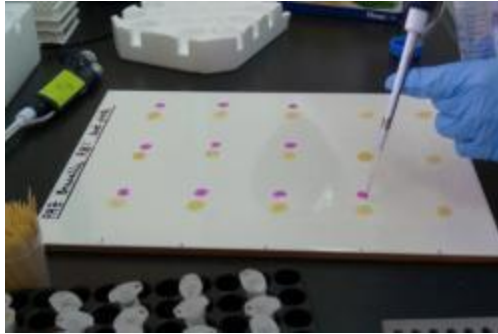
No relationship between animal and human sero-status at the household level



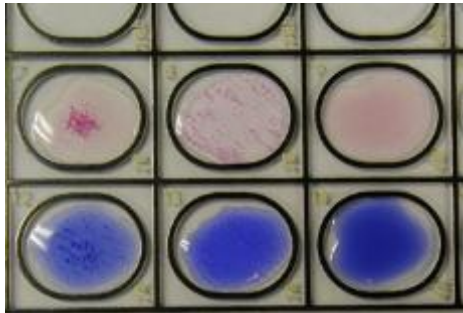
But, brucellosis apparently a common diagnosis in district and sub-district hospitals in study area....



So, we went to investigate.



Rose Bengal



Brucella Agglutination Test

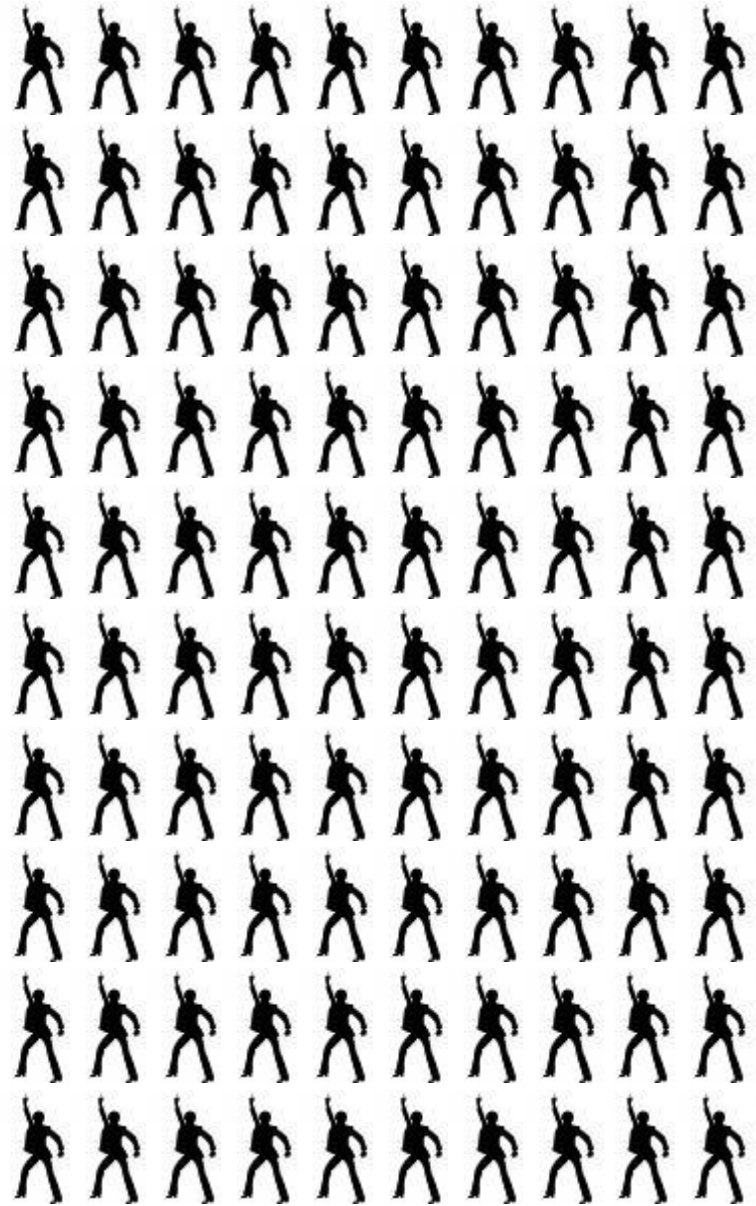


Lateral Flow Assay

+ve

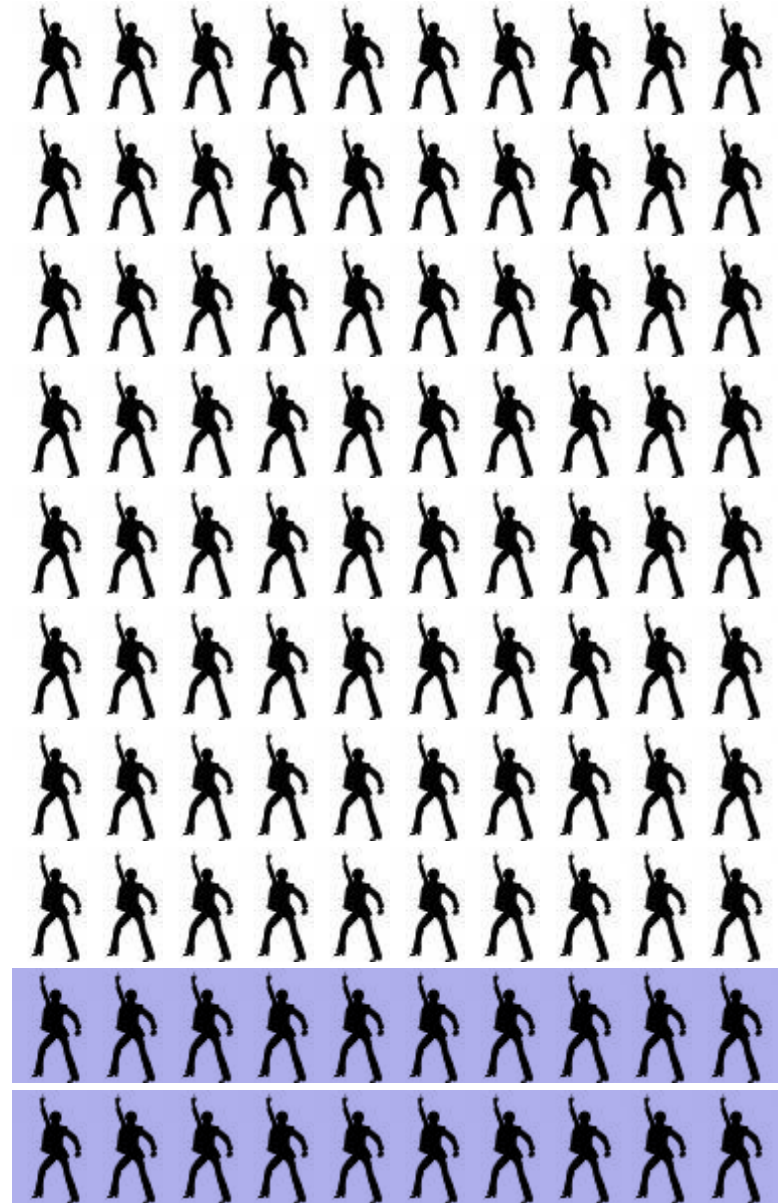


A population of 827
brucellosis suspects



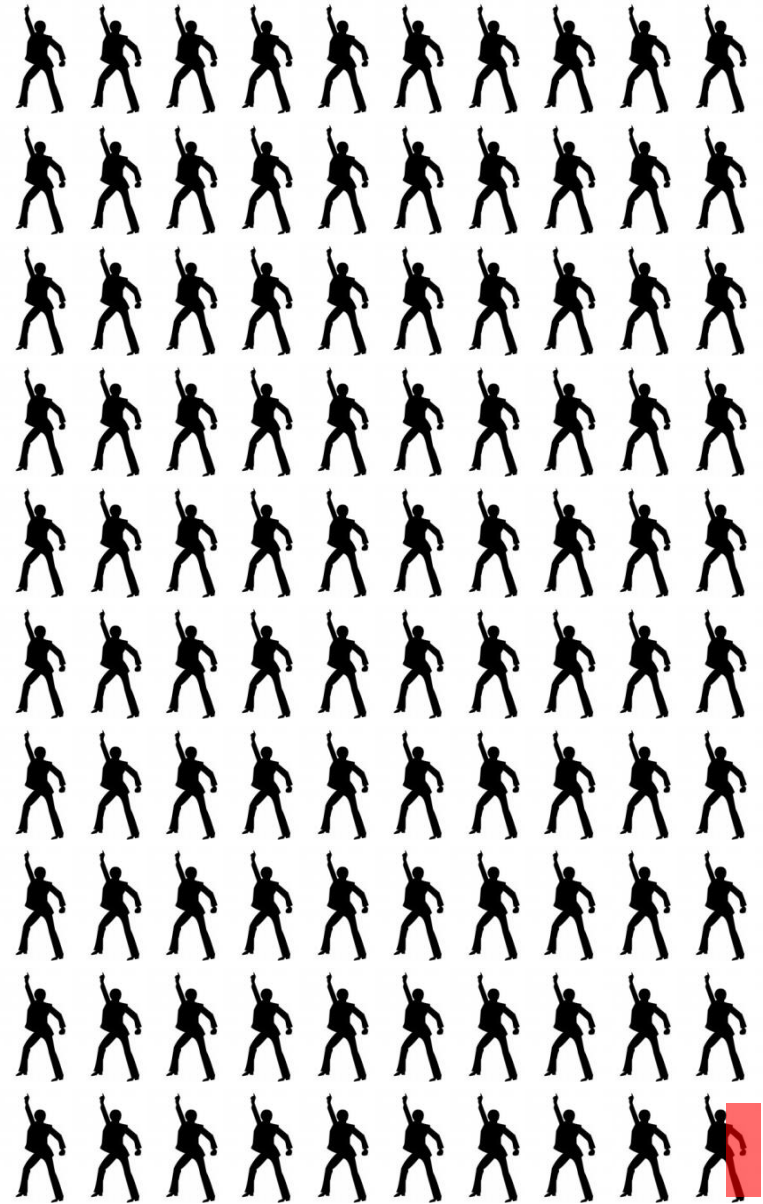
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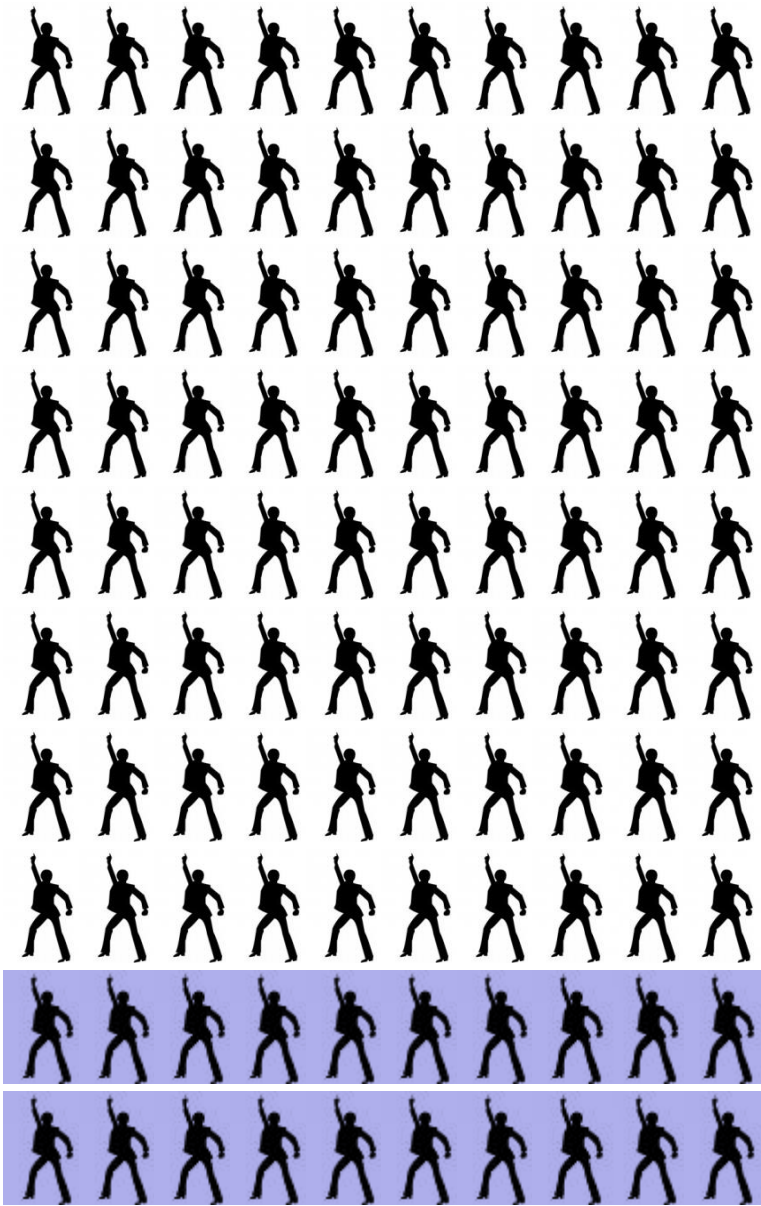
BAT: 19.7%



A population of 827
brucellosis suspects

RBT: 0.6%





5% of reactive BAT
confirmed on LFA

