BRUCELLA Agglutination Tube Test

Case three: prozone

Γ	Tube 10	Tube9	Tube8	Tube7	Tube6	Tube5	Tube4	Tube3	Tube2	Tube1
C	ontrol-	+Control	1/1280	1/640	1/320	1/160	1/80	1/40	1/20	1/10
	-	+	•	-	+,	. +,	-		-	-

BRUCELLA Agglutination Tube Test

Case two: negative reaction

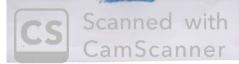
Tube10	Tube9	Tube8	Tube7	Tube6	Tube5	Tube4	Tube3	Tube2	Tube1
Control-	Control+	1/1280	1/640	1/320	1/160	1/80			Tubel
-	+	-	133	-		1/80	1/40	1/20	1/10
			1	-			-	-	_



BRUCELLA Agglutination Tube Test

Case one:positive reaction

Tube10	Tube9	Tube8	Tube7	Tube6	Tube5	Tube4	Tube3	Tube2	Tube1
Control-	Control+	1/1280	1/640	1/320	1/160	1/80	1/40	1/20	1/10
	+		_		_	1 (+	+	+	+



COMPLEMENT FIXATION TEST

positive case INFECTION

There is No haemolysis in the first tubes, and haemolysis in the rest of the test tube + haemolysis in the Antigen, Serum and Complement Control tubes.

The titre is the last tube showing No haemoly sis.

Tube	Tube 2	Tube 3	Tube 4	Tube 5	Tube RBCs control	Tube Antigun Control	Tube Serum Control	Complement Control
NH	NH	NH	NH	H	NH	H	JH	1 +1

H: Haemolysis.

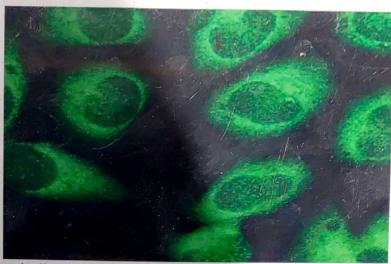
NH: No Haemolysis.



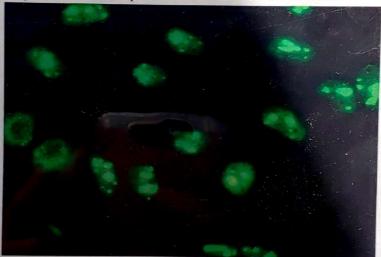
LATEX AGGLUTINATION

qualitative&	ve& titative	e& serum	Ve Gorina	+	TEST SPECIMEN T
passive agglutination	passive agglutination	passive agglutination	passive agglutination	SENSTIALLY.	TYPE OF REACTION
StreptolysinO on latex	human IgG on latex	C reactive protien	HCG	Ag	ANTIGEN
anti- SterptolysinO in serum	IgM or IgG in serum(RF)	anti-CRP on latex	anti-HCG on latex	db	ANTIBODY
StreptolysinO on latex + anti-StreptolsinO in serum=	RF+human IgG on latex = agglu. Within 2 min.	II	HCG + anti-HCGon latex = agglu. Within 2 min.		PRINCIPLE
streptococci	NKNOWN	n any bacteria & viruses		AGENT	CAUSATIVE
streptococcal	Rheumatoid	acute stage of inflammation diseases	pregnancy	CASE	DISEASE

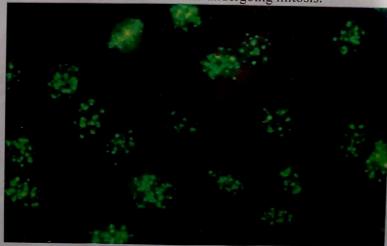




Nucleolar: the nucleoli stain as multiple solid bodies within the nucleus.



Centromere: large speckles of finite number, reactive antigen segregate with condensed chromosomes in cells undergoing mitosis.



6-examine for specific fluorescence under fluorescence microscope at a magnification of 200x or greater.

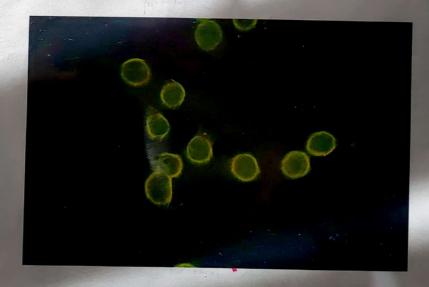
Interpretation of the results

The nuclear staining patterns observed with human epithelial cells (HEp)-2 provided include homogeneous, peripheral (rim), speckled, nucleolar and Centromere.

Homogeneous: the entire nucleus fluoresces evenly with a diffuse staining pattern.



Peripheral (rim): the nuclear membrane stains most intensely with a decreasing staining intensity of the nucleoplasm toward the center of the nucleus.



Speckled: Discrete coarse to fine round speckles fluoresce throughout the nucleus.

COMPLEMENT FIXATION TEST

Anti-complementary reaction: NO haemolysis in all test tubes + NO Haemolysis in the serum, RBCs control tube.

The value of serum control tube is to test:

-The inability of serum alone to bind complement.

-The anti-complementary action of the serum, which is due to one of the followings:

a-presence of immune complexes in serum that binds to complement and prevent its haemolytic activity b-Heparin therapy which inactivates complements due to

consumption of Ca, Mg.

c-Old or contaminated serum has destructive action on complement.

Tube1	Tube2	Tube3	Tube	Tubos	T 1	-	1			
	14002	1 4003	1 4064	Tubes		Tube	Tube	Tube		
	and the				RBCs	Ag	Serum	Complement		
NILL) Tr v				control	control	control	control		
NH	NH	NH	NH	NH	NH	Н	- CITCL OI	COILLOI		
H NH NH H										

COMPLEMENT FIXATION TEST

No infection (negative case): when patients serum does not contain antibodies, the complement will not be used and will be available to fix To and haemolyze the antibody coated red cells.

Haemolysis in all test tubes + hamolysis in the Ag, Ab, And complement control tube.

Tube1	Tube2	Tube3	Tube4	Tube5	Tube	Tube	Tube	Tube
				1	RBCs			Complement
					control	control	control	control
H	H	H	H	H	NH	Н	Н	H

