RESULTS

Table (10): Age in the studied patients (n=61).

	Age (years)
Mean	35.84
SD	± 8.08
Range	15 - 57

Table (11): Distribution of the studied patients according to clinical data

	No.	*%*
CRF	9	14.8%
Cystitis	9	14.8%
Sterile pyuria	2	3.3%
UTI	6	9.8%
Haematuria	2	3.3%
TB	13	21.3%
Kidney donor	7	11.5%
Renal stone	3	4.9%
Dysuria	3	4.9%
TB treatment	3	4.9%
Burning micturition	2	3.3%
Pain at ejaculation	1	1.6%
Transurethral pain	1	1.3%
Total	61	100%

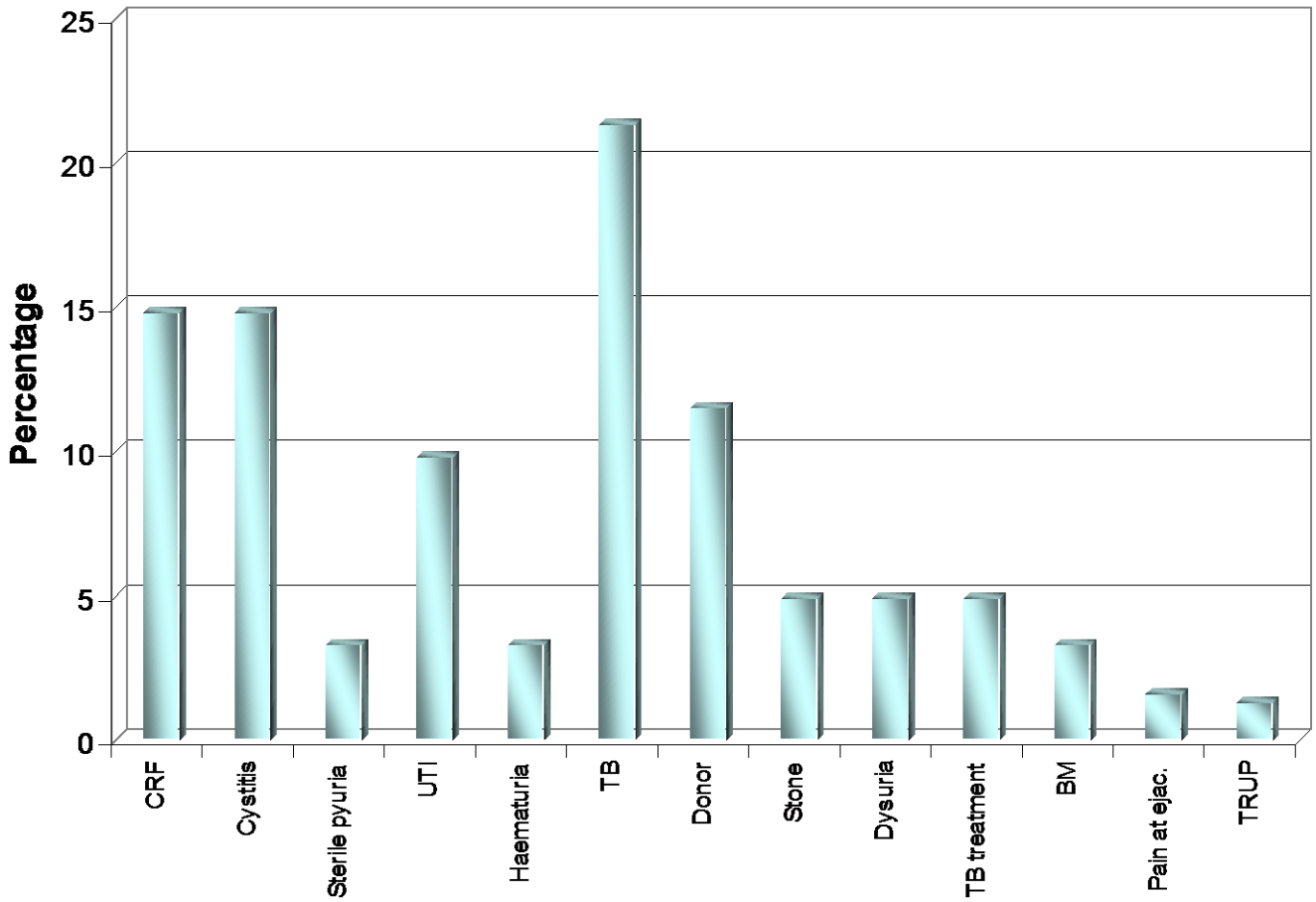

Figure (14): Distribution of the studied patients according to clinical data

Table (12): Distribution of the studied patients according to ZN result

	No.	*%*
Positive	41	67.2%
Negative	20	32.8
Total	61	100%

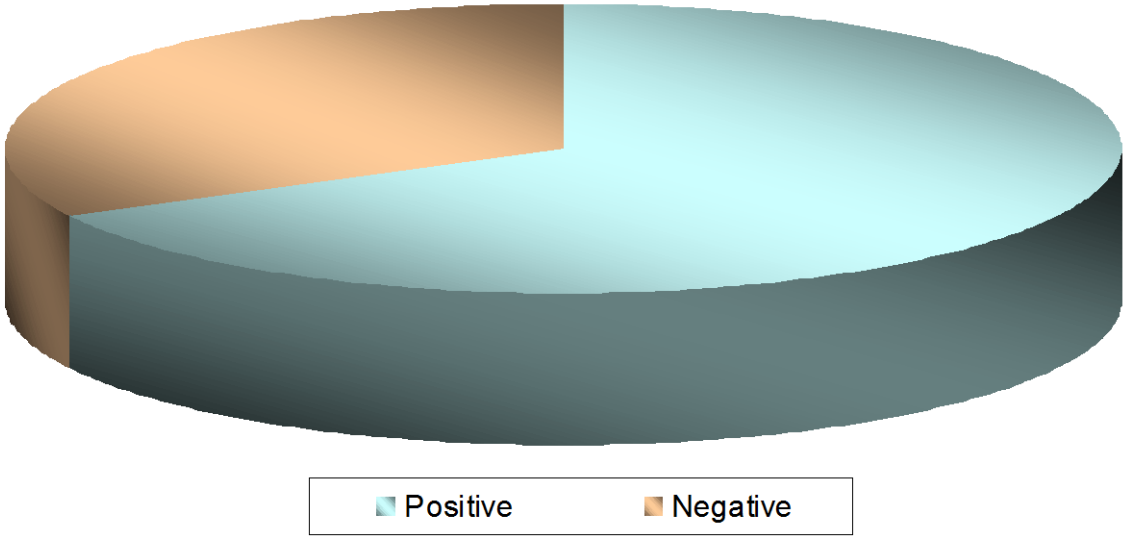

Figure (15): Distribution of studied patients according to ZN result

Table (13): Distribution of the studied patients according to PCR result

	No.	*%*
Positive	56	91.8%
Negative	5	8.2%
Total	61	100%

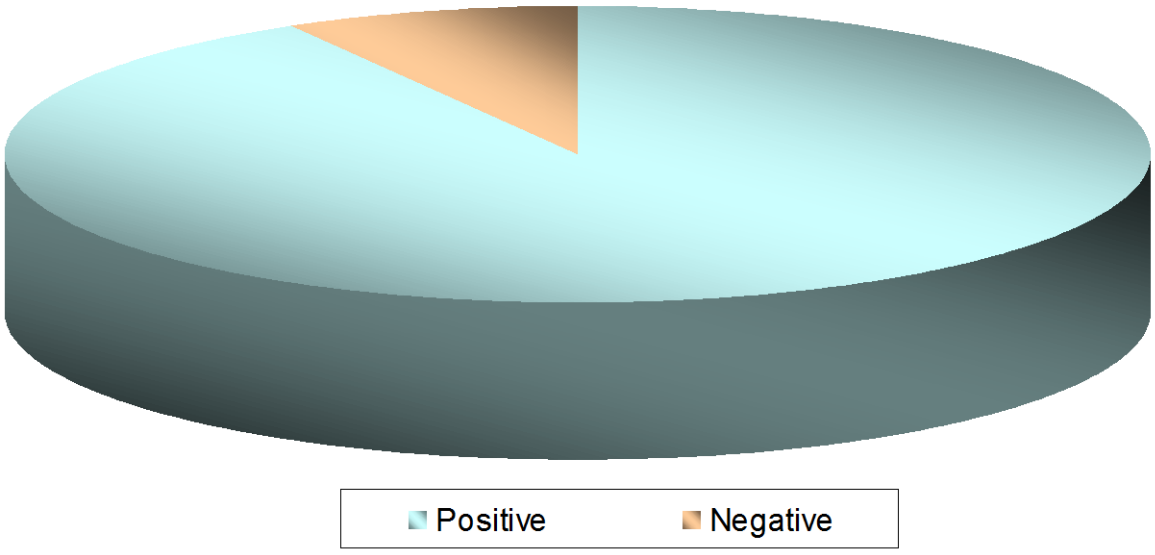

Figure (16): Distribution of studied patients according to PCR result

Table (14): Distribution of the studied patients according to fast plaque

	No.	*%*
Positive	51	83.6%
Negative	10	16.4%
Total	61	100%

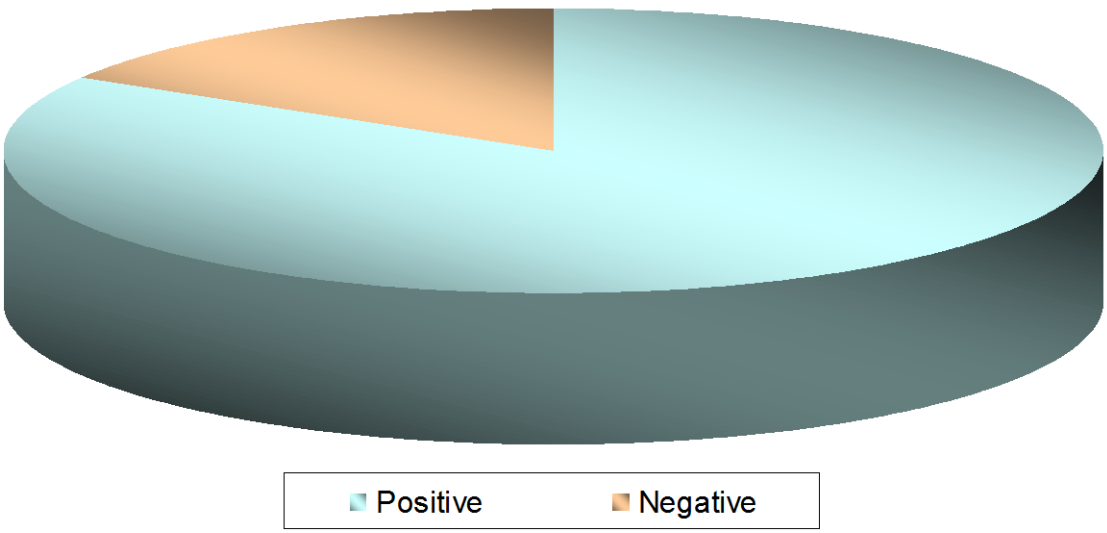

Figure (17): Distribution of studied patients according to fast plaque

Table (15): Comparison between fast plaque test results and ZN test results (n=61)

	ZN		X^2	*P*
	+ve	*-ve*		
Fast plaque:				
Positive	34	17	0.042	>0.05
Negative	7	3		

There is non-significant difference between results of fast plaque test results and that of ZN test at 0.05 level of significance.

Table (16): Comparison between fast plaque and L-J test results (n=61)

	L-J		*Total*	X^2	*P*
	+ve	*-ve*			
Fast plaque:					
Positive	46	5	51	1.068	>0.05
Negative	2	8	10		
Total	48	13	61		

There is non-significant difference between results of fast plaque test results and that of PCR test at 0.05 level of significance.

- Sensitivity= 0.96
- Specificity= 0.62
- Accuracy= 0.89
- Positive predictive value= 0.90
- Negative predictive value= 0.80

Table (17): Comparison between fast plaque test results and PCR test results (n=61)

	PCR		X^2	***P***
	+ve	***-ve***		
Fast plaque:				
Positive	46	5	1.068	>0.05
Negative	10	0		

There is non-significant difference between results of fast plaque test results and that of PCR test at 0.05 level of significance.

Table (18): Comparison between PCR and Zeil Neelsen test results (n=61)

	ZN		*Total*	X^2	*P*
	+ve	*-ve*			
PCR:					
Positive	41	15	56	11.17	<0.001
Negative	0	5	5		
Total	41	20	61		

There is a highly significant difference between results of Zeil Neelsen results and that of PCR test at 0.05 level of significance.

- Sensitivity= 1.00
- Specificity= 0.25
- Accuracy= 0.75
- Positive predictive value= 0.0.73
- Negative predictive value= 1.00

Table (19): Comparison between PCR and L-J test results (n=61)

	L-J		*Total*	X^2	*P*
	+ve	*-ve*			
PCR:					
Positive	45	11	56	1.13	>0.05
Negative	3	2	5		
Total	48	13	61		

There is a non-significant difference between results of L-J results and that of PCR test at 0.05 level of significance.

- Sensitivity= 0.94
- Specificity= 0.15
- Accuracy= 0.77
- Positive predictive value= 0.80
- Negative predictive value= 0.40

Table (20): Comparison between L.J and ZN test results (n=61)

	L-J		*Total*	X^2	*P*
	+ve	*-ve*			
ZN:					
Positive	32	16	48	0.03	>0.05
Negative	9	4	13		
Total	41	20	61		

There is a non-significant difference between results of L-J results and that of ZN staining at 0.05 level of significance.

- Sensitivity= 0.78
- Specificity= 0.20
- Accuracy= 0.59
- Positive predictive value= 0.67
- Negative predictive value= 0.31

Table (21): Comparison between fast plaque test versus ZN smears, LJ culture and PCR

	FastPlaque test	
	Positive	Negative
Z.N. smears		
Positive	34	7
Negative	17	3
T	51	10
Chi^2	0.042	
P	>0.05	
Culture on LJ		
Positive	46	2
Negative	5	8
T	51	10
Chi^2	24.57	
P	<0.001	
PCR		
Positive	46	10
Negative	5	0
T	51	10
Chi^2	1.068	
P	>0.05	

This table shows the following:

1) FPTB correlates very highly with culture.
2) PCR correlates very highly with ZN staining method.
3) No correlation was found between FPTB and neither ZN nor PCR.
4) The highest percentage of isolation belongs to PCR technique followed by FastPlaque, then LJ, & lastly ZN.

Table (22): Sensitivity, specificity, PPV and NPV of ZN, LJ and PCR tests

	FPTB			
	Sensitivity	*Specificity*	*PPV*	*NPV*
ZN	83	15	0.67	0.3
LJ	96	62	0.9	0.8
PCR	83	0	0.9	0

This table that ZN showed the highest sensitivity and LJ showed the highest specificity.

Fig. (18), 19

Fig 20, 21