

Table (1): primers used in the study

Gene	Primer	Nucleotide Sequence	Amplicon size	Reference
Ica A	Forward Reverse	5'-TCTCTTGCAGGAGCAATCAA -3' 5'-TCAGGCACTAACATCCAGCA -3'	188 bp	[9]
Ica B	Forward Reverse	5'- ATG GCT TAA AGC ACA CGA CGC -3' 5'- TAT CGG CAT CTG GTG TGA CAG -3'	526 bp	[10]
Ica C	Forward Reverse	5' TGCATTTTATCGATCAGGGC 3' 5' CACTTCCTTTTCCAGGACG 3'	989 bp	[10]
Ica D	Forward Reverse	5'- ATA AAC TTG AAT TAG TGT ATT -3' 5'- ATA TAT AAA ACT CTC TTA ACA -3'	198 bp	[9]

Table(2): Distribution of the studied patients according to the results of Congo red and TCP test

Congo red test	TCP test				P-value
	Non NO. (%)	Weak NO. (%)	Moderate NO. (%)	Strong NO. (%)	
Non /Weak	12(46.2%)	3(11.5%)	9(34.6%)	2(7.7%)	0.001*
Moderate	3(10.3%)	4(13.8%)	20(69.0%)	2(6.9%)	
Strong	9(20.0%)	2(4.4%)	19(42.2%)	15(33.3%)	

Table (3): Comparison between the results of Congo red and TCP test and PCR.

	Biofilm formation genotypically				P-value
	No (-ve) N.= 30(30.0%)		Yes (+ve) N.=70(70.0%)		
TCP					
No (-ve)	22	(73.3)	2	(2.9)	<0.0001*
Yes (+ve)	8	(26.7)	68	(97.1)	
Congo red					
No (-ve)	10	(33.3)	16	(22.9)	0.008*
Yes (+ve)	20	(66.7)	54	(77.1)	

Table (4):Sensitivity, specificity, positive predictive value (PPV), negative predicative value (NPV) of TCP and Congo red

	Sensitivity	Specificity	PPV	NPV
TCP	97.1	73.3	89.5	91.7
Congo red	77.1	33.3	73	38.5

Table (5): comparison between biofilm forming and non biofilm forming groups regarding possible risk factors.

	Biofilm formation		P-value
	Yes N.=70(70.0%)	No N.= 30(30.0%)	
Age Mean± S.D. Median(Range)	35.1±21.6 31.0(4.0 -70.0)	37.0±19.0 40.0(4.0-72.0)	0.585
Sex Male (%) Female (%)	41(83.7%) 29(56.9%)	8(16.3%) 22(43.1%)	0.003*
Bed Sores No (%) yes (%)	63(67.7%) 7 (100%)	30 (32.3%) 0 (0.0%)	0.001*
Burn No (%) yes (%)	68(75.6%) 2 (20.0%)	22(24.4%) 8(80.0%)	0.099
Diabetic foot No (%) yes (%)	55 (67.1%) 15(83.3%)	27(32.9%) 3(16.7%)	0.173
Surgical Wound No (%) yes (%)	26(65.0%) 44(73.3%)	14(35.0%) 16(26.7%)	0.373
Traumatic Wound No (%) yes (%)	68(71.6%) 2(40.0%)	27(28.4%) 3(60.0%)	0.158
Diabetes Mellitus No (%) yes (%)	51(68.0%) 19(76.0%)	24(32.0%) 6(24.0%)	0.450
Foreign body No (%) yes (%)	43(64.2%) 27(81.8%)	24(35.8%) 6(18.2%)	0.070
Previous hospital admission No (%) yes (%)	24(53.3%) 46(83.6%)	21(46.7%) 9(16.4%)	0.001*
Use of broad spectrum antibiotics No (%) yes (%)	22(51.2%) 48(84.2%)	21(48.8%) 9(15.8%)	0.001*
Steroid No (%) yes (%)	64(91.4%) 6(8.6%)	25(83.3%) 5 (16.7%)	0.298
Chronic disease No (%) yes (%)	23(32.9%) 47(67.1%)	30(100%) 0(0.0%)	<0.0001 *