Supplementary Table 1. Depict the significant pairwise comparison of T-PRF Groups with their respective controls (non-treated sites) of Wistar rat mandibles in Hounsfield units

Group	Group	Mean±SD	Mean±SD	Mean difference	*P*-value
T-PRF+AMX	CONTROL 1	551.00±18.68	621.67±52.08	70.67	0.094[1]
T-PRF+MET	CONTROL 2	578.00±18.25	525.33±51.87	52.67	0.172[1]
T-PRF+NE	CONTROL 3	569.00±24.58	648.67±35.8	79.67	0.033[2]
T-PRF Plain	CONTROL 4	507.67±118.5	620±53.03	112.33	0.208[2]

(SD: standard deviation, T-PRF: titanium platelet-rich fibrin, AMX: amoxicillin+clavulanate, MET: metronidazole, NE: neem)

[1]Indicates not significant, [2]indicate statistical significance.

Supplementary Table 2. Depict the significant comparison of gene expressions of alkaline phosphatase and bone morphogenic protein 2 among all the study groups

Group	ALP (Mean±standard deviation)	*P*-Value
T-PRF Plain	1.00±0.00	<0.001*
T-PRF+ Amoxiclav	2.47±0.84	
T-PRF+ MET	4.65±1.52	
T-PRF NEEM	7.60±3.04	
Groups	BMP-2 (Mean±SD)	<0.001*
T-PRF Plain	1.00±0.00	
T-PRF +Amoxiclav	1.89±0.18	
T-PRF +MET	4.64±0.45	
T-PRF+ NEEM	10.85±1.28	
PRIMERS Used for the above gene expression		
Gene	Forward 5'-3	Reverse 5'-3'
GAPDH (housekeeping)	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG
ALP	TGGACTACACCGCTGGAAAT	GCCTCAGGATCAGTTCCAAC
BMP-2	GCATTTTGGTGGTGGTGTTT	GGAGATGGAGTTCAGGCAGA

(T-PRF: titanium platelet-rich fibrin, AMX: amoxicillin+clavulanate, MET: metronidazole, NE: neem, ALP: alkaline phosphatase, BMP-2: bone morphogenic protein-2)

*and $P<0.05$ were considered statistically significant.

Supplementary Table 3. Depict the Tukey's post hoc comparisons of all the groups for ALP and BMP-2

Comparison	Mean difference	*P*-value	Significant
Alkaline Phosphatase (ALP)			
T-PRF Plain vs T-PRF+AMX	–1.47	0.012	Yes
T-PRF Plain vs T-PRF+MET	–3.65	<0.001	Yes
T-PRF Plain vs T-PRF+NEEM	–6.6	<0.001	Yes
T- PRF+AMX vs. T-PRF+MET	–2.18	0.005	Yes
T- PRF+AMX vs. T-PRF+NEEM	–5.13	<0.001	Yes
T-PRF+MET vs T-PRF+NE	–2.95	0.002	Yes
Bone morphogenic protein 2 (BMP-2)			
T-PRF plain vs. T-PRF+AMX	–0.89	0.021	Yes
T-PRF plain vs. T-PRF+MET	–3.64	<0.001	Yes
T-PRF plain vs. T-PRF+NE	–9.85	<0.001	Yes
T- PRF+AMX vs. T-PRF+MET	–2.75	0.004	Yes
T- PRF+AMX vs. T-PRF+NE	–8.96	<0.001	Yes
T-PRF+MET vs. T-PRF+NE	–6.21	<0.001	Yes

(T-PRF: titanium platelet-rich fibrin, AMX: amoxicillin+clavulanate, MET: metronidazole, NE: neem, ALP: alkaline phosphatase, BMP-2: bone morphogenic protein-2)

* and $P<0.05$ were considered statistically significant.