

Table (3): Haemogram picture of diarrhoeic calves due to bacteria or cryptosporidia either alone or mixed infection before and 10,20 and 30 days post treatment (n=7).

parameter	healthy	Bacterial			Cryptosporidia			Mixed infection			
		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		
			10	20		10	20		10	20	30
RBCs	7.04±	9.12±	8.89±	8.29±	7.49±	9.07±	8.80±	8.21±	7.54±	9.74±	9.02±
106/c.mm	0.53	0.76*	0.47*	0.62	0.57	0.51*	0.48*	0.64	0.61	0.63**	0.56*
HB	7.42±	9.83±	9.58±	8.76±	7.82±	9.96±	9.02±	8.41±	7.58±	10.16±	9.41±
g m %	0.42	0.64**	0.49**	0.43*	0.72	0.75*	0.59*	0.51	0.82	0.54**	0.62*
PCV	26.62±	33.83±	31.89±	29.04±	27.18±	33.28±	30.21±	28.92±	26.42±	33.97±	30.62±
%	1.57	1.63**	0.83*	0.79	0.84	0.62**	0.60*	0.68	0.51	1.02**	0.60*

* significant at P < 0.05

** Significant at P < 0.01

Table(4): Leukogram picture of diarrhoeic calves due to bacteria or cryptosporidia either alone or mixed infection before and 10,20 and 30 days post treatment (n=7).

parameter	healthy	Bacterial			Cryptosporidia			Mixed infection			
		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		
			10	20		10	20		10	20	30
leukocytes (10³/cmm)		8.61± 0.33	9.89± 0.34*	9.59± 0.25*	9.26± 0.91	8.47± 0.79	9.82± 0.27*	9.02± 0.80	8.51± 0.69	8.32± 0.98	10.33± 0.52*
lymphocytes (10 ³ /cmm)		4.42± 0.53	4.78± 0.83	4.65±0. 69	4.61± 0.81	4.31± 0.66	6.0± 0.24*	5.26± 0.42	4.63± 0.30	4.29± 0.38	5.71± 0.32*
neutrophil (10³/cmm)		2.91± 0.74	3.62± 0.63	3.58±0. 58	3.42± 0.92	3.05± 0.51	3.05± 0.32	3.00± 0.29	2.97± 0.18	2.90± 0.37	3.60± 0.55
monocytes (10³/cmm)		0.61± 0.12	0.29± 0.06*	0.30±0. 09	0.40± 0.08	0.52± 0.07	0.33± 0.12	0.37± 0.09	0.41± 0.08	0.50± 0.10	0.31± 0.06*
eosinophils (10³/cmm)		0.35± 0.06	0.63± 0.09*	0.58±0. 14	0.46± 0.07	0.30± 0.06	0.25± 0.04	0.22± 0.04	0.25± 0.04	0.33± 0.05	0.43± 0.06
basophils (10³/cmm)		0.32± 0.04	0.57 ± 0.12	0.48± 0.08	0.37± 0.09	0.29± 0.05	0.19± 0.03	0.17± 0.03	0.25± 0.04	0.30± 0.06	0.28± 0.04

Table (5): Proteinogram of diarrhoeic calves due to bacteria or cryptosporidia either alone or mixed infection before and 10,20 and 30 days post treatment (n=7).

parameter	healthy	Bacterial			Cryptosporidia			Mixed infection					
		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)				
			10	20		10	20		10	20	30		
T.Protein (mg/dl)	8.42± 0.65	6.12± 0.27**	6.83± 0.39*	7.05± 0.16*	8.15± 0.53	6.03± 0.54*	6.42± 0.41*	6.91± 0.39	7.82± 0.68	5.92± .42**	6.03± 0.48*	6.91± 0.31*	7.85± 0.72
Albumin (mg/dl)	3.92± 0.63	2.31± 0.36 *	2.72± 0.21	2.84± 0.14	3.72± 0.26	2.51± 0.15*	2.91± 0.26	3.09± 0.62	3.62± 0.51	2.40± 0.29*	2.68± 0.39	3.08± 0.52	3.84± 0.63
Globulin (mg/dl)	4.50± 0.27	3.81± 0.11*	4.11± 0.27	4.21± 0.52	4.43± 0.58	3.52± 0.31*	3.51± 0.42	3.82± 0.51	4.20± 0.72	3.52± 0.38*	3.35± 0.62	3.83± 0.43	4.01± 0.62
A/Gratio	0.87± 0.15	0.60± 0.08	0.66± 0.09	0.68± 0.11	0.84± 0.18	0.71± 0.13	0.59± 0.12	0.81± 0.19	0.86± 0.18	0.68± 0.12	0.79± 0.16	0.75± 0.11	0.96± 0.21

* significant at P < 0.05

** Significant at P < 0.01

Table (6): Liver enzymes of diarrhoeic calves due to bacteria or cryptosporidia either alone or mixed infection before and 10,20 and 30 days post treatment (n=7).

parameter	healthy	Bacterial			Cryptosporidia			Mixed infection			
		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		
			10	20		10	20		10	20	30
AST (U/L)	57.21± 3.62	76.38± 3.51**	70.38± 1.85**	72.87± 3.99*	62.85± 3.84	74.93± 2.75**	68.93± 1.78*	62.93± 0.64	59.06± 0.72	81.04± 2.43***	75.81± 2.92**
ALT (U/L)	28.42± 1.89	41.63± 2.53**	37.13± 1.92*	32.98± 2.63	29.06± 2.84	43.15± 2.98**	37.07± 1.69**	32.13± 1.63	26.63± 1.93	46.14± 2.62***	40.83± 2.51**
Alk..Ph . (I.U/ml)	78.92± 4.18	91.57± 2.82*	87.73± 2.63	83.09± 1.94	79.16± 1.89	92.62± 2.72*	86.93± 1.64*	82.18± 1.54	76.62± 0.79	97.37± 3.01**	88.57± 2.01*
											84± 1.98
											79.03± 2.74

*significant at P < 0.05

* * Significant at P < 0.01

*** Significant at P < 0.001

Table (7): Some biochemical parameters of diarrhoeic calves due to bacteria or cryptosporidia either alone or mixed infection before and 10,20 and 30 days post treatment (n=7).

parameter	healthy	Bacterial			Cryptosporidia			Mixed infection					
		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)		Pre-treatment	Post treatment(days)				
			10	20		10	20		10	20			
Urea (mg/dl)	23.58± 2.46	36.72± 2.54**	32.12± 2.41*	28.21± 1.63	24.81± 1.68	34.61± 1.63**	31.06± 1.28*	28.93± 1.32	25.83± 1.83	38.85± 2.41**	34.61± 2.85*	30.63± 1.53*	26.98± 1.49
Creatinine (mg/dl)	1.28+ 0.26	2.51± 0.36*	2.17± 0.23*	1.92± 0.21	1.43± 0.17	2.37± 0.21**	2.07± 0.16*	1.84± 0.12	1.29± 0.15	2.64± 0.23**	2.40± 0.43*	2.18± 0.52	1.43± 0.28
Glucose (mg/dl)	71.29± 3.21	49.32± 4.83**	57.12± 3.82*	65.72± 1.06	70.31± 3.94	51.23± 3.97**	57.23± 3.84*	64.09± 1.63	69.51± 3.79	48.93± 3.82***	55.73± 2.64**	61.92± 2.93*	67.82± 2.91
Calcium (mg /dl)	9.27± 1.03	6.43± 0.43*	6.90± 0.38*	7.39± 0.57	8.46± 0.83	6.92± 0.40*	7.83± 0.69	8.52± 0.93	9.04± 0.66	6.04± 0.59*	6.84± 0.36*	7.83± 0.64	8.93± 0.53
Inorg.phosp (mg/dl)	4.94± 0.94	2.59± 0.43*	2.81± 0.38*	3.62± 0.57	4.72± 0.63	2.35± 0.59*	2.78± 0.40*	3.92± 0.73	4.69± 0.96	2.51± 0.63*	2.82± 0.36*	3.79± 0.94	4.06± 0.78
Magneisum (mg/dl)	2.54± 0.12	1.32± 0.48**	1.59± 0.43*	1.96± 0.47	2.43± 0.64	1.41± 0.48*	1.86± 0.22*	2.04± 0.36	2.63± 0.63	1.29+ 0.42*	1.69+ 0.34*	2.03+ 0.41	2.57+ 0.36
sodium (mEq/L)	132.02± 3.21	109.24± 4.51**	114.41± 2.94**	121.62± 2.92*	129.61± 3.59	112.53± 2.99**	116.41± 2.83**	124.32± 4.42*	131.69± 3.62***	108.53± 2.79**	115.73± 2.59*	121.93± 3.67	127.52± 3.67
potassium (mEq/L)	4.73± 0.37	6.82± 0.51**	6.32± 0.45*	5.72± 0.49	4.82± 0.44	6.21± 0.39**	5.93± 0.31*	5.38± 0.37	4.92± 0.33	6.89± 0.32***	6.02± 0.34*	5.81± 0.34*	5.03± 0.47

*** Significant at P < 0.001

* Significant at P < 0.05

** Significant at P < 0.01

