		Average Test Results For Whole Model										
Accuracy 50.2	Precision Recall F-Score 25% 52.39% 30.00% 36.8		rix (%) Actual Neg		Per Period Confusion Matrix (%) Actual Pos Actual Neg							
		Predicted Pos 14.56* Predicted Neg 35.24*	% 14.51 % 35.69	1% Predicted Pos 9% Predicted Neg	22.45% 27.79%	21.93% 27.82%						
Sex	K-Value Accuracy Precision	Recall F-Score	Results per Sex and K-Value Classifica	ation Confusion Matrix (%)	F	Per Period Confusion Matrix (%)		Its for Female Patients per K-Value				
le	3 50.85% 50.2	5% 35.88% 40.52	Predicted Pos	Actual Pos	Actual Neg 16.76% 17.90% Predicted Pos	Actual Pos Actual Neg 22.02% 23.28%	60.00%	3 5 7 9	_			
	5 49.76% 48.6	2% 30.18% 35.86	Predicted Neg	Actual Pos	31.25% 34.10% Predicted Neg Actual Neg	26.01% 28.70% Actual Pos Actual Neg						
			Predicted Pos Predicted Neg		14.07% 16.30% Predicted Pos 33.94% 35.69% Predicted Neg	21.78% 23.06% 26.24% 28.91%	40.00%		_			
	7 51.80% 52.4	1% 31.74% 38.17	Predicted Pos	Actual Pos	Actual Neg 14.93% 15.13% Predicted Pos	Actual Pos Actual Neg 21.74% 22.98%	20.00%		_			
	9 51.70% 52.6	8% 27.51% 34.69	Predicted Neg	Actual Pos	33.07% 36.87% Predicted Neg Actual Neg	26.29% 29.00% Actual Pos Actual Neg						
			Predicted Pos Predicted Neg		12.86% 13.16% Predicted Pos 35.14% 38.84% Predicted Neg	21.61% 23.12% 26.41% 28.86%	0.00% Accuracy	Precision Recall F-Score				
	3 50.05% 54.8	0% 31.83% 39.24	% Predicted Pos	Actual Pos	Actual Neg 16.27% 14.63% Predicted Pos	Actual Pos Actual Neg 23.15% 20.57%	_	lts for Male Patients per K-Value				
	5 48.32% 51.6	5% 27.03% 34.52'	Predicted Neg	Actual Pos	35.32% 33.78% Predicted Neg Actual Neg	29.31% 26.97% Actual Pos Actual Neg	60.00%	3 5 7 9	_			
			Predicted Pos Predicted Neg		13.63% 13.73% Predicted Pos 37.95% 34.68% Predicted Neg	22.92% 20.73% 29.54% 26.81%						
	7 50.21% 55.3	4% 29.43% 37.25	Predicted Pos	Actual Pos	Actual Neg 14.78% 12.99% Predicted Pos	Actual Pos Actual Neg 23.18% 20.87%	40.00%	The second second	-			
	9 49.34% 53.6	5% 26.37% 34.20	Predicted Neg	Actual Pos	36.81% 35.43% Predicted Neg Actual Neg	29.28% 26.67% Actual Pos Actual Neg	20.00%					
			Predicted Pos Predicted Neg		13.18% 12.25% Predicted Pos 38.41% 36.16% Predicted Neg	23.22% 20.87% 29.25% 26.66%						
							0.00% Accuracy	Precision Recall F-Score	-			
Sex	Number Valid Patient Files Patient Files after B	ias Test Patient Number Training Patient Number	Dataset Cleaning Training Audio Number		Quantities For Full Audio	Quantities For Period Audio	K-Value Accuracy Precisi	on Recall F-Score Classification Confusi	on Matrix (Num) Classification	Testing In Confusion Matrix (%) Per Period C	infusion Matrix (Num) Per Perior	od Confusion M
	1 304	279 41 23	8 8	23 Ahnormal	Present Absent	Present 1706		3% 32.91% 39.39% Predicted Pos	Actual Pos Actual Neg 26 27 Predicted Pos	Actual Pos Actual Neg 17.57% 18.24% Predicted Pos	Actual Pos Actual Neg 1217 1027 Predicted Pos	А
				Abnormal Normal	16 Categorised for Classifier		6036 5 45.95% 48.65	Predicted Neg	53 42 Predicted Neg Actual Pos Actual Neg	35.81% 28.38% Predicted Neg	1438 1220 Predicted Neg Actual Pos Actual Neg	A
					Present Absent	Present		Predicted Pos Predicted Neg	18 19 Predicted Pos 61 50 Predicted Neg	Actual Pos Actual Neg 12.16% 12.84% Predicted Pos 41.22% 33.78% Predicted Neg	2001 1661 Predicted Pos 2424 2084 Predicted Neg	
					500	400	7 52.70% 62.16	5% 29.11% 39.66%	Actual Pos Actual Neg 23 14 Predicted Pos	Actual Pos Actual Neg 15.54% 9.46% Predicted Pos	Actual Pos Actual Neg	A
							0 50 600 50 25	Predicted Pos Predicted Neg	56 55 Predicted Neg	37.84% 37.16% Predicted Neg Actual Pos Actual Neg	2814 2291 Predicted Pos 3381 2952 Predicted Neg Actual Pos Actual Neg	A
							9 50.68% 58.33	Predicted Pos Predicted Neg	Actual Pos	14.19% 10.14% Predicted Pos 39.19% 36.49% Predicted Neg	3613 2961 Predicted Pos 4352 3780 Predicted Neg	A
	2 304	289 43 24	6 8	57	Present Absent	Present	Absent 3 49.65% 50.00	0% 30.99% 38.26%	Actual Pos Actual Neg	Actual Pos Actual Neg	Actual Pos Actual Neg	А
				Abnormal Normal	123 19		6094	Predicted Pos Predicted Neg	22 22 Predicted Pos 49 48 Predicted Neg	15.60% 15.60% Predicted Pos 34.75% 34.04% Predicted Neg	1025 943 Predicted Pos 1156 1211 Predicted Neg	
					Categorised for Classifier Present Absent	Categorised for Classifier Present 452 5672	5 47.52% 46.34 Absent	Predicted Pos	Actual Pos Actual Neg 19 22 Predicted Pos	Actual Pos Actual Neg 13.48% 15.60% Predicted Pos	Actual Pos	A
					404	452 5672	7 53.90% 56.52	Predicted Neg 36.62% 44.44%	52 48 Predicted Neg Actual Pos Actual Neg	36.88% 34.04% Predicted Neg Actual Pos Actual Neg	Actual Pos Actual Neg	A
								Predicted Pos Predicted Neg	26 20 Predicted Pos 45 50 Predicted Neg	18.44% 14.18% Predicted Pos 31.91% 35.46% Predicted Neg	2307 2212 Predicted Pos 2782 2814 Predicted Neg	
							9 51.06% 52.94	Predicted Pos	Actual Pos Actual Neg 18 16 Predicted Pos	Actual Pos Actual Neg 12.77% 11.35% Predicted Pos	Actual Pos Actual Neg 2969 2838 Predicted Pos	A
	3 304	281 53 22	18 7	93	Present Absent	Present	Absent 3 50.54% 72.00	Predicted Neg 31.58% 43.90%	53 54 Predicted Neg Actual Pos Actual Neg	37.59% 38.30% Predicted Neg Actual Pos Actual Neg	3574 3624 Predicted Neg Actual Pos Actual Neg	A
				Abnormal Normal	109 14	219 Abnormal 1530 450 Normal 186		Predicted Pos Predicted Neg	36 14 Predicted Pos 78 58 Predicted Neg	19.35% 7.53% Predicted Pos 41.94% 31.18% Predicted Neg	1558 944 Predicted Pos 2084 1366 Predicted Neg	
					Categorised for Classifier Present Absent	Categorised for Classifier Present	5 47.85% 68.09 Absent	Predicted Pos	Actual Pos Actual Neg 32 15 Predicted Pos	Actual Pos Actual Neg 17.20% 8.06% Predicted Pos	Actual Pos Actual Neg 2609 1546 Predicted Pos	A
					342	450 4776	6059 7 46.77% 68.29	Predicted Neg 24.56% 36.13%	82 57 Predicted Neg Actual Pos Actual Neg	44.09% 30.65% Predicted Neg Actual Pos Actual Neg	3461 2304 Predicted Neg Actual Pos Actual Neg	P
								Predicted Pos Predicted Neg	28 13 Predicted Pos 86 59 Predicted Neg	15.05% 6.99% Predicted Pos 46.24% 31.72% Predicted Neg	3607 2142 Predicted Pos 4891 3248 Predicted Neg	
							9 46.77% 74.19	9% 20.18% 31.72% Predicted Pos	Actual Pos Actual Neg 23 8 Predicted Pos	Actual Pos Actual Neg 12.37% 4.30% Predicted Pos	Actual Pos Actual Neg 4605 2766 Predicted Pos	,
	4 304	288 47 24	11 8	33	Present Absent	Present	Absent 3 56.25% 45.45	Predicted Neg 38.46% 41.67%	91 64 Predicted Neg Actual Pos Actual Neg	48.92% 34.41% Predicted Neg Actual Pos Actual Neg	6321 4164 Predicted Neg Actual Pos Actual Neg	A
				Abnormal Normal	140 14	251 Abnormal 1929	3464 5756	Predicted Pos Predicted Neg	25 30 Predicted Pos 40 65 Predicted Neg	15.63% 18.75% Predicted Pos 25.00% 40.63% Predicted Neg	907 1343 Predicted Pos 1022 1714 Predicted Neg	
					Categorised for Classifier Present Absent	Categorised for Classifier Present	5 56.25% 45.28		Actual Pos Actual Neg	Actual Pos Actual Neg 15.00% 18.13% Predicted Pos 25.63% 41.25% Predicted Neg	Actual Pos Actual Neg	A
					405	427 5597	5756	Predicted Neg 3% 33.85% 38.94%	24 29 Predicted Pos 41 66 Predicted Neg Actual Pos Actual Neg	Actual Pos Actual Neg	1505 2250 Predicted Pos 1710 2845 Predicted Neg Actual Pos Actual Neg	A
								Predicted Pos Predicted Neg	22 26 Predicted Pos 43 69 Predicted Neg	13.75% 16.25% Predicted Pos 26.88% 43.13% Predicted Neg	2114 3150 Predicted Pos 2387 3983 Predicted Neg	
							9 60.63% 52.00	0% 40.00% 45.22% Predicted Pos	Actual Pos Actual Neg 26 24 Predicted Pos	Actual Pos Actual Neg 16.25% 15.00% Predicted Pos	Actual Pos Actual Neg 2714 4112 Predicted Pos	А
	5 304	292 47 24	5 8	55	Present Absent	Present	Absent 3 51.88% 34.72	Predicted Neg	39 71 Predicted Neg Actual Pos Actual Neg	24.38% 44.38% Predicted Neg Actual Pos Actual Neg	3073 5059 Predicted Neg Actual Pos Actual Neg	Ad
	3 304	41 24	- 0	Abnormal Normal	150 17	270 Abnormal 2116 417 Normal 219	3712 5638	Predicted Pos Predicted Neg	25 47 Predicted Pos 30 58 Predicted Neg	15.63% 29.38% Predicted Pos 18.75% 36.25% Predicted Neg	875 1568 Predicted Pos 940 1693 Predicted Neg	A
				. toma	Categorised for Classifier	Categorised for Classifier	5 51.25% 31.75	5% 36.36% 33.90%	Actual Pos Actual Neg	Actual Pos Actual Neg	Actual Pos Actual Neg	A
					Present Absent	417 Present 6047	5638	Predicted Pos Predicted Neg	20 43 Predicted Pos 35 62 Predicted Neg	12.50% 26.88% Predicted Pos 21.88% 38.75% Predicted Neg	1433 2578 Predicted Pos 1592 2857 Predicted Neg	
							7 48.75% 29.23	Predicted Pos	Actual Pos	Actual Pos Actual Neg 11.88% 28.75% Predicted Pos	Actual Pos Actual Neg 2028 3613 Predicted Pos	A
							9 49.38% 25.93		Actual Pos Actual Neg	22.50% 36.88% Predicted Neg Actual Pos Actual Neg	2207 3996 Predicted Neg Actual Pos Actual Neg	A
								Predicted Pos Predicted Neg	14 40 Predicted Pos 41 65 Predicted Neg	8.75% 25.00% Predicted Pos 25.63% 40.63% Predicted Neg	2549 4668 Predicted Pos 2896 5115 Predicted Neg	

Sex	Number	Valid Patient Files Patient Files after Bias			Test Patient Number Tra		Dataset Cleaning Training Audio Number	Quantities For Full Audio			Quantities Fo	or Period Audio	-Value Accuracy Precision Recall F-Score		Score Classifica	Classification Confusion Matrix (Num)		Testing Classification Confusion Matrix (%)		Per Peri	od Confusion Matrix (Num) Per	Per Period Confusion Matrix (%)	
		1	322	322	46	276	96.	1	Present Absent			Present Absent	-	42.19% 39.13% 4			Actual Neg		Actual Pos		Actual Pos Actual Neg	Actual Pos	
			OLL	OLL	40	2.0		Ahnormal	128	316 Ab	normal	1824 4560	0 00.0070	42.10% 00.10% 4	Predicted Pos	27		Predicted Pos		23.42% Predicted Pos	1112 1304 Predicted Pos	21.88%	
								Abnormal Normal	35	484 No		591 6857			Predicted Neg	42		Predicted Neg		32.91% Predicted Neg	1141 1525 Predicted Neg	22.45%	
									Categorised for Classifier			for Classifier	5 48 73%	39.29% 31.88% 3		Actual Pos			Actual Pos		Actual Pos Actual Neg	Actual Pos	
									Present Absent			Present Absent	-		Predicted Pos	22		Predicted Pos		21.52% Predicted Pos	1784 2151 Predicted Pos	21.069	
									479	484		6975 6857			Predicted Neg	47		Predicted Neg		34.81% Predicted Neg	1971 2564 Predicted Neg	23.279	
													7 54.43%	47.27% 37.68% 4		Actual Pos			Actual Pos		Actual Pos Actual Neg	Actual Pos	
															Predicted Pos	26	29	Predicted Pos	16.46%	18.35% Predicted Pos	2531 3007 Predicted Pos	21.349	
															Predicted Neg	43		Predicted Neg	27.22%	37.97% Predicted Neg	2726 3594 Predicted Neg	22.99	
													9 59.49%	54.90% 40.58% 4	6.67%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	28	23	Predicted Pos	17.72%	14.56% Predicted Pos	3255 3868 Predicted Pos	21.35	
															Predicted Neg	41		Predicted Neg	25.95%	41.77% Predicted Neg	3504 4619 Predicted Neg	22.98	
		2	322	322	60	262	891	3	Present Absent			Present Absent	3 50.22%	63.33% 29.92% 4	0.64%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
								Abnormal Normal	110	285 Ab	normal	1634 4115 456 6736			Predicted Pos	38	22	Predicted Pos		9.87% Predicted Pos	1761 1211 Predicted Pos	24.80	
								Normal	26	476 No	ormal	456 6736			Predicted Neg	89		Predicted Neg		33.18% Predicted Neg	2364 1765 Predicted Neg	33.29	
									Categorised for Classifier		Categorised	for Classifier	5 45.74%	55.77% 22.83% 3	2.40%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
									Present Absent						Predicted Pos	29	23	Predicted Pos	13.00%	10.31% Predicted Pos	2930 2058 Predicted Pos	24.76	
									421	476		Present Absent 6205 6736			Predicted Neg	98	73	Predicted Neg	43.95%	32.74% Predicted Neg	3945 2902 Predicted Neg	33.33	
													7 48.43%	61.11% 25.98% 3	6.46%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	33	21	Predicted Pos	14.80%	9.42% Predicted Pos	4173 2924 Predicted Pos	25.19	
															Predicted Neg	94	75	Predicted Neg		33.63% Predicted Neg	5452 4020 Predicted Neg	32.90	
													9 45.29%	55.32% 20.47% 2	9.89%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	26		Predicted Pos	11.66%	9.42% Predicted Pos	5356 3751 Predicted Pos	25.14	
															Predicted Neg	101		Predicted Neg	45.29%	33.63% Predicted Neg	7019 5177 Predicted Neg	32.95	
		3	322	322	46	276	961)	Present Absent			Present Absent	3 50.31%	34.55% 30.16% 3.	2.20%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
								Abnormal Normal	134	315 Ab	normal	1928 4565			Predicted Pos	19		Predicted Pos		22.36% Predicted Pos	935 1431 Predicted Pos	18.30	
								Normal	36	474 No	ormal	591 6776			Predicted Neg	44	62	Predicted Neg	27.33%	38.51% Predicted Neg	1078 1665 Predicted Neg	21.10	
									Categorised for Classifier		Categorised	for Classifier	5 53.42%	38.46% 31.75% 3	4.78%	Actual Pos			Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
									Present Absent			Present Absent			Predicted Pos			Predicted Pos	12.42%	19.88% Predicted Pos	1520 2413 Predicted Pos	17.85	
									485	474		7084 6776			Predicted Neg	43	66	Predicted Neg	26.71%	40.99% Predicted Neg	1835 2747 Predicted Neg	21.55	
													7 52.80%	38.18% 33.33% 3	5.59%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	21		Predicted Pos	13.04%	21.12% Predicted Pos	2155 3382 Predicted Pos	18.08	
															Predicted Neg	42	64	Predicted Neg	26.09%	39.75% Predicted Neg	2542 3842 Predicted Neg	21.32	
													9 49.69%	32.69% 26.98% 2	9.57%	Actual Pos			Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual P	
															Predicted Pos	17		Predicted Pos		21.74% Predicted Pos	2765 4369 Predicted Pos	18.04	
															Predicted Neg	46	63	Predicted Neg	28.57%	39.13% Predicted Neg	3274 4919 Predicted Neg	21.36	
		4	322	322	56	266	926	Abnormal Normal	Present Absent			Present Absent	3 49.49%	70.59% 30.00% 4	2.11%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
								Abnormal	109	293 Ab		1665 4275			Predicted Pos	36	15	Predicted Pos	18.37%	7.65% Predicted Pos	1563 906 Predicted Pos	25.97	
								Normal	26	497 No	ormal	443 7030			Predicted Neg	84	61	Predicted Neg	42.86%	31.12% Predicted Neg	2193 1356 Predicted Neg	36.44	
									Categorised for Classifier		Categorised	for Classifier	5 47.96%	70.45% 25.83% 3	7.80%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
									Present Absent			Present Absent			Predicted Pos	31	13	Predicted Pos	15.82%	6.63% Predicted Pos	2626 1517 Predicted Pos	26.18	
									428	497		6383 7030			Predicted Neg	89	63	Predicted Neg	45.41%	32.14% Predicted Neg	3634 2253 Predicted Neg	36.23	
													7 46.94%	69.05% 24.17% 3	5.80%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	29		Predicted Pos	14.80%	6.63% Predicted Pos	3668 2151 Predicted Pos	26.12	
															Predicted Neg	91		Predicted Neg	46.43%	32.14% Predicted Neg	5096 3127 Predicted Neg	36.29	
													9 46.94%	70.00% 23.33% 3	5.00%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	28		Predicted Pos		6.12% Predicted Pos	4768 2759 Predicted Pos	26.419	
															Predicted Neg	92	64	Predicted Neg	46.94%	32.65% Predicted Neg	6500 4027 Predicted Neg	36.00	
		5	322	322	60	262	89	3	Present Absent			Present Absent	3 50.22%	63.33% 29.92% 4	0.64%	Actual Pos	Actual Neg		Actual Pos		Actual Pos Actual Neg	Actual Po	
								Abnormal Normal	110	285 Ab		1634 4115			Predicted Pos	38		Predicted Pos		9.87% Predicted Pos	1761 1211 Predicted Pos	24.80	
								Normal	26	476 No		456 6736			Predicted Neg	89		Predicted Neg	39.91%	33.18% Predicted Neg	2364 1765 Predicted Neg	33.29	
									Categorised for Classifier		Categorised	for Classifier	5 45.74%	55.77% 22.83% 3	2.40%	Actual Pos			Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
									Present Absent			Present Absent			Predicted Pos	29	23	Predicted Pos	13.00%	10.31% Predicted Pos	2930 2058 Predicted Pos	24.76	
									421	476		6205 6736			Predicted Neg	98	73	Predicted Neg	43.95%	32.74% Predicted Neg	3945 2902 Predicted Neg	33.33	
													7 48.43%	61.11% 25.98% 3	6.46%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Po	
															Predicted Pos	33	21	Predicted Pos	14.80%	9.42% Predicted Pos	4173 2924 Predicted Pos	25.19	
															Predicted Neg	94	75	Predicted Neg	42.15%	33.63% Predicted Neg	5452 4020 Predicted Neg	32.909	
													9 45.29%	55.32% 20.47% 2	9.89%	Actual Pos	Actual Neg		Actual Pos	Actual Neg	Actual Pos Actual Neg	Actual Pos	
															Predicted Pos	26	21	Predicted Pos		9.42% Predicted Pos	5356 3751 Predicted Pos	25.14%	
															Predicted Neg	404	76	Deadisted Non	4E 200/	33.63% Predicted Neg	7019 5177 Predicted Neg	32.95%	