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Table 1 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group I No.I weighing 14 kgs.

parameter	control	ureteral obstruction	hypertonic solution	indomethacin		
				15min	30min	45min
MAP (mmHg)	119	131.3	115.7	121	120.7	119.7
HR (beat/min)	138	144	144	132	144	150
CO (L/min)	1.634	-	1.76	1.65	-	1.62
PV (L.)	0.82	-	0.74	0.81	-	1.78
BV (L.)	1.35	-	1.24	1.37	-	2.97
PCV (%)	39	37	40	41	40	40
TPR (dyne-sec/cm ⁵)	5824	-	5256	5872	-	5915
RVR (dyne-sec/cm ⁵)	85,892	41,367	41,165	129900	81301	62308
V (ul/min/kg.bw)	12	27	60	8	7	8
RPF (ml/min/kg.bw)	4.8	11.4	2.5	3.1	5.1	6.6
RBF (ml/min/kg.bw)	7.9	18.1	4.1	5.3	8.5	10.9
GFR (ml/min/kg.bw)	0.5	0.7	0.7	0.5	0.7	0.9
FF (%)	0.1	0.1	0.3	0.2	0.1	0.1
RF (%)	6.8	-	12.8	4.5	-	9.5
P _{Na} (mEq/L.)	142	147	149	150	157	154
P _K (mEq/L.)	3.9	3.7	3.6	3.8	4.2	4.1
P _{Cl} (mEq/L.)	109	108	111	113	116	106
U _{Na} V (uEq/min/kg.bw)	35.5	76.8	146.2	25.2	22.5	18.6
U _K V (uEq/min/kg.bw)	9.4	21.3	27.7	1.4	6	3.5
U _{Cl} V (uEq/min/kg.bw)	26.3	54.3	75.6	15.1	15.2	8.5
F.E.of Na (%)	1.4	3.0	5.7	0.9	0.8	0.7
F.E.of K (%)	13.9	33.4	44.7	2.2	8.3	4.9
F.E.of Cl (%)	1.4	2.9	3.9	0.8	0.8	0.5
P _{Osm} (mOsm/kg.bw)	279.2	267	324.6	273.5	272.3	272
U _{Osm} (mOsm/kg.bw)	687.4	587	397.4	1229	633.7	339
U _{Osm} V (uOsm/min/kg.bw)	8.25	15.8	23.8	9.8	4.4	2.7
C _{Osm} (uOsm/min/kg.bw)	0.4	0.8	1.2	0.5	0.2	0.1
C _{H₂O} (uOsm/min/kg.bw)	-0.2	-0.5	-0.4	-0.4	-0.1	-0.02

Table 2 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group I No.II weighing 11 kgs.

parameter	control	ureteral obstruction	hypertonic solution	indomethacin		
				15min	30min	45 min
MAP (mmHg)	86.33	77.67	82.3	109	111.7	110.7
HR (beat/min)	165	165	138	156	162	162
CO (L./min)	2.13	-	1.42	0.93	-	1.01
PV (L.)	1.24	-	1.22	0.37	-	0.52
BV (L.)	1.79	-	1.77	0.52	-	0.72
PCV (%)	31	30	31	28	28	28
TPR (dyne-sec/cm ⁵)	3244	-	4627	9363	-	8763
RVR (dyne-sec/cm ⁵)	49496	31591	29901	162591	144151	180103
V (μl/min/kg.bw)	4.05	23.64	63.64	10.01	6.36	6.36
RPF (ml/min/kg.bw)	4.21	12.51	4.72	3.51	4.06	3.22
RBF (ml/min/kg.bw)	6.09	17.88	6.85	4.87	5.63	4.47
GFR (ml/min/kg.bw)	0.39	0.66	0.65	0.68	0.28	0.33
FF (%)	14.8	19.8	17.8	45.1	29.1	38.4
RF (%)	6.56	-	15.5	5.76	-	4.87
P _{Na} (mEq/L.)	140	142	145	128	139	137
P _K (mEq/L.)	3.0	3.0	2.7	2.6	2.9	3.0
P _{Cl} (mEq/L.)	114	116	120	105	112	113
U _{Na} V (μEq/min/kg.bw)	3.4	16.6	49.7	15.4	11.3	14.8
U _K V (μEq/min/kg.bw)	8.54	20.5	21.7	16.2	3.22	5.6
U _{Cl} V (μEq/min/kg.bw)	3.2	18.2	17.5	3.36	1.68	3.99
FE of Na (%)	0.2	0.8	2.4	0.8	0.6	0.8
FE of K (%)	19.8	47.8	56.3	43.6	7.7	13.1
FE of Cl (%)	0.2	1.1	1.0	0.2	0.1	0.2
P _{Osm} (mOsm/kg.bw)	265	261.5	320.6	240.4	263.4	258.4
U _{Osm} (mOsm/kg.bw)	1897.6	575	278.7	850.5	1397	1751
U _{Osm} V (μOsm/min/kg.bw)	7.6	13.6	17.7	9.3	8.9	11.2
C _{Osm} (μOsm/min/kg.bw)	0.32	0.57	0.72	0.43	0.37	0.47
C _{H₂O} (μOsm/min/kg.bw)	-0.27	-0.31	-0.02	-2.54	-4.3	-5.78



Table 3 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group I No.III weighing 16 kgs.

parameter	control	ureteral obstruction	hypertonic solution	indomethacin		
				15min	30min	45min
MAP (mmHg)	108.3	117.7	115.7	134.3	142.3	142.3
HR (beat/min)	120	126	138	138	150	150
CO (L./min)	1.7	-	1.5	1.5	-	1.3
PV (L.)	1.2	-	0.5	0.6	-	0.4
BV (L.)	1.6	-	0.7	0.8	-	0.5
PCV (%)	25	27	26	25	25	25
TPR (dyne-sec/cm ⁵)	5016	-	6134	7307	-	8898
RVR (dyne-sec/cm ⁵)	51504	19961	39495	65747	79648	84824
V (ul/min/kg.bw)	9.68	37	35	14	21	25
RPF (ml/min/kg.bw)	7.89	21.5	10.8	7.66	6.7	6.29
RBF (ml/min/kg.bw)	10.5	29.5	14.6	10.2	8.93	8.39
GFR (ml/min/kg.bw)	0.42	1.36	1.91	1.21	1.11	1.79
FF (%)	26.9	31.5	88.3	79.2	83.2	42.0
RF (%)	9.74	-	15.5	11.1	-	10.5
P _{Na} (mEq/L.)	140	140	141	140	140	140
P _K (mEq/L.)	3.6	3.5	3.4	3.5	3.5	3.6
P _{Cl} (mEq/L.)	105	113	110	111	110	113
U _{Na} V (uEq/min/kg.bw)	26.3	82.6	101.36	44	68	83.2
U _K V (uEq/min/kg.bw)	8.64	24.7	29.1	23.1	27.5	31.2
U _{Cl} V (uEq/min/kg.bw)	35.9	89.1	71.1	27.5	36.7	49.2
FE of Na (%)	0.7	2.2	2.7	1.2	1.8	2.2
FE of K (%)	8.8	26.2	31.7	24.4	29.1	32.1
FE of Cl (%)	1.3	2.9	2.4	0.9	1.2	1.6
P _{Osm} (mOsm/kg.bw)	266.2	241.8	324.6	266	265.4	256.7
U _{Osm} (mOsm/kg.bw)	844.5	478.6	535.5	1000	803.3	700.6
U _{Osm} V (uOsm/min/kg.bw)	8.4	17.7	18.7	14	16.9	17.5
C _{Osm} (uOsm/min/kg.bw)	0.43	1.17	1.12	0.83	1.03	1.09
C _{H₂O} (uOsm/min/kg.bw)	-2.1	-0.9	-0.9	-2.8	-2.0	-1.7

Table 4 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group I No. IV weighing 18 kgs.

parameter	control	ureteral obstruction	hypertonic solution	indomethacin		
				15min	30min	45min
MAP (mmHg)	166	158.3	175.3	169.3	164	155.67
HR (beat/min)	162	174	174	204	126	114
CO (L./min)	2.6	-	1.7	1.1	-	1.3
PV (L.)	0.7	-	0.7	0.5	-	0.5
BV (L.)	1.4	-	1.2	1.0	-	1.0
PCV (%)	47	47	44	44	45	45
TPR (dyne-sec/cm ⁵)	5155	-	8151	12343	-	9270
RVR (dyne-sec/cm ⁵)	52986	70816	57576	66858	63416	52882
V (ul/min/kg.bw)	4.44	11.1	17.8	4.44	1.5	2.78
RPF (ml/min/kg.bw)	7.38	5.26	7.58	1.86	0.76	1.64
RBF (ml/min/kg.bw)	13.9	9.93	13.5	3.32	1.39	2.98
GFR (ml/min/kg.bw)	0.3	0.61	2.0	0.3	0.14	0.23
FF (%)	41	11.6	26.4	16.3	18.8	13.8
RF (%)	9.73	-	14.2	18.5	-	17.5
P _{Na} (mEq/L.)	132	129	135	124	135	136
P _K (mEq/L.)	3.4	3.4	3.5	3.4	3.9	4.0
P _{Cl} (mEq/L.)	107	106	99	99	106	112
U _{Na} V (μEq/min/kg.bw)	16.8	41.2	66.3	16.6	3.32	5.75
U _K V (μEq/min/kg.bw)	9.92	20.8	30.7	13.4	0.97	8.3
U _{Cl} V (μEq/min/kg.bw)	30.9	54.6	45.1	6.08	1.38	3.75
FE of Na (%)	0.8	2.1	3.2	0.9	0.2	0.3
FE of K (%)	18.9	39.8	57.0	25.6	1.7	13.5
FE of Cl (%)	1.9	3.3	3.0	0.4	0.1	0.2
P _{Osm} (mOsm/kg.bw)	271	260	284.6	241	282.5	284.5
U _{Osm} (mOsm/kg.bw)	1656	1507	1252	1129	1245	1014
U _{Osm} V (μOsm/min/kg.bw)	7.3	16.7	22.3	5.0	1.9	2.8
C _{Osm} (μOsm/min/kg.bw)	0.49	1.16	1.43	0.37	0.12	0.18
C _{H₂O} (μOsm/min/kg.bw)	-5.1	-4.8	-3.5	-3.7	-3.4	-2.6

Table 5 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group I No.V weighing 13 kgs.

parameter	control	ureteral obstruction	hypertonic solution	indomethacin		
				15 min	30 min	45 min
MAP (mmHg)	104.7	119.7	116	115	114.7	113.7
HR (beat/min)	150	114	150	150	150	150
CO (L./min)	2.2	-	1.9	2.1	-	4.1
PV (L.)	0.9	-	0.9	0.8	-	0.9
BV (L.)	1.1	-	1.1	1.0	-	1.2
PCV (%)	18	21	21	21	21	21
TPR (dyne-sec/cm ⁵)	3759	-	4837	4371	-	2234
RVR (dyne-sec/cm ⁵)	50678	55852	62507	88374	89277	86168
V (ul/min/kg.bw)	4.62	4.62	7.69	3.69	3.54	3.85
RPF (ml/min/kg.bw)	2.73	2.72	1.33	0.17	0.09	0.26
RBF (ml/min/kg.bw)	3.33	3.45	1.68	0.22	0.11	0.33
GFR (ml/min/kg.bw)	1.22	0.92	0.86	0.07	0.06	0.06
FF (%)	44.7	33.8	64.9	39.2	61.6	23.2
RF (%)	7.42	-	7.74	4.95	-	2.59
P _{Na} (mEq/L.)	137	139	141	140	144	136
P _K (mEq/L.)	3.6	3.5	3.5	3.3	3.6	3.4
P _{Cl} (mEq/L.)	105	115	115	113	116	111
U _{Na} V (uEq/min/kg.bw)	2.16	0.84	14.1	5.04	1.56	2.55
U _K V (uEq/min/kg.bw)	11.3	9.18	19.6	7.1	2.71	7.6
U _{Cl} V (uEq/min/kg.bw)	1.38	0.6	0.8	0.58	0.74	0.85
FE of Na (%)	0.1	0.04	0.6	0.2	0.07	0.1
FE of K (%)	19.8	16.6	35.3	13.6	4.7	14.1
FE of Cl (%)	0.1	0.03	0.04	0.03	0.03	0.05
P _{Osm} (mOsm/kg.bw)	282	287	299	284	293	276
U _{Osm} (mOsm/kg.bw)	1445	1486	1453	1698	1222	1518
U _{Osm} V (uOsm/min/kg.bw)	6.6	6.8	11.2	6.3	4.3	5.8
C _{Osm} (uOsm/min/kg.bw)	0.31	0.31	0.51	0.03	0.02	0.03
C _{H₂O} (uOsm/min/kg.bw)	-4.1	-4.2	-4.1	-4.9	-3.2	-4.5

Table 6 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group II No.VI weighing 14 kgs.

parameter	control	ureteral obstruction	hypotonic solution	indomethacin		
				15 min	30 min	45 min
MAP (mmHg)	123.7	132.3	128.3	140.7	144	138
HR (beat/min)	186	204	192	204	210	228
CO (L./min)	1.9	-	1.9	1.5	-	1.2
PV (L.)	0.7	-	1.1	0.5	-	0.5
BV (L.)	1.3	-	2.0	0.8	-	0.8
PCV (%)	46	44	43	41	42	42
TPR (dyne-sec/cm ⁵)	5266	-	5410	7520	-	9274
RVR (dyne-sec/cm ⁵)	43681	50166	36405	50891	51474	77204
V (μl/min/kg.bw)	2.86	3.57	7.86	3.29	5.71	5.71
RPF (ml/min/kg.bw)	3.13	1.29	4.34	2.17	9.27	5.92
RBF (ml/min/kg.bw)	5.8	2.31	7.61	3.75	15.9	10.2
GFR (ml/min/kg.bw)	0.86	0.76	1.89	0.94	2.44	2.17
FF (%)	4.9	85.6	57.3	43.3	26.3	36.6
RF (%)	12.1	-	14.9	14.8	-	12.0
P _{Na} (mEq/L.)	141	142	140	139	138	134
P _K (mEq/L.)	2.8	2.9	2.7	3.0	3.0	2.9
P _{Cl} (mEq/L.)	111	109	113	113	115	114
U _{Na} V (μEq/min/kg.bw)	4.8	3.8	13.1	6.5	8.6	7.6
U _K V (μEq/min/kg.bw)	6.4	5.1	10.3	6.4	15.8	1.8
U _{Cl} V (μEq/min/kg.bw)	5.3	4.2	15.7	5.1	5.2	4.3
FE of Na (%)	0.3	0.2	0.8	0.4	0.5	0.5
FE of K (%)	19.0	14.6	31.7	17.7	43.7	5.2
FE of Cl (%)	0.4	0.3	1.2	0.4	0.4	0.3
P _{Osm} (mOsm/kg.bw)	296	298	285	283	275	271
U _{Osm} (mOsm/kg.bw)	2278	1576	1359	1559	2015	1940
U _{Osm} V (μOsm/min/kg.bw)	6.6	5.7	10.7	5.1	11.5	11.1
C _{Osm} (μOsm/min/kg.bw)	0.31	0.26	0.53	0.25	0.59	0.57
C _{H₂O} (μOsm/min/kg.bw)	-0.3	-0.2	-0.5	-0.3	-0.6	-0.6



Table 7 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group II No.VII weighing 13.5 kgs.

parameter	control	ureteral obstruction	hypotonic solution	indomethacin		
				15 min	30 min	45 min
MAP (mmHg)	109.4	131.7	139.7	141.3	146	146.3
HR (beat/min)	168	192	186	186	192	198
CO (L./min)	1.9	-	2.0	1.7	-	1.5
PV (L.)	0.7	-	0.8	0.6	-	0.6
BV (L.)	1.2	-	1.2	0.9	-	0.8
PCV (%)	38	38	36	35	34	34
TPR (dyne-sec/cm ⁵)	4598	-	5690	6591	-	8043
RVR (dyne-sec/cm ⁵)	34405	48541	44357	41454	57321	44927
V (μl/min/kg.bw)	15.6	14.8	47.4	7.4	0.9	11.9
RPF (ml/min/kg.bw)	4.3	2.6	4.5	5.7	2.6	5.3
RBF (ml/min/kg.bw)	0.9	4.1	7.1	8.8	3.9	8.1
GFR (ml/min/kg.bw)	1.1	0.8	1.5	1.4	1.4	1.0
FF (%)	26.2	30.7	33.6	24.7	55.9	19.6
RF (%)	13.4	-	12.8	15.9	-	17.9
P _{Na} (mEq/L.)	142	143	138	138	138	138
P _K (mEq/L.)	2.5	2.7	2.6	2.7	2.7	2.8
P _{Cl} (mEq/L.)	119	121	112	111	115	104
U _{Na} V (μEq/min/kg.bw)	43.1	41	131.2	20.8	24.9	29.1
U _K V (μEq/min/kg.bw)	10.1	11.2	19.8	7.3	11.8	11.2
U _{Cl} V (μEq/min/kg.bw)	57.1	63.8	158.1	33.8	39.1	30.4
FE of Na (%)	2.0	1.9	6.3	0.9	1.2	1.4
FE of K (%)	26.7	27.4	50.3	17.8	28.8	26.4
FE of Cl (%)	3.2	3.5	9.3	2.0	2.2	1.9
P _{Osm} (mOsm/kg.bw)	255	224	222	224	236	232
U _{Osm} (mOsm/kg.bw)	963	1090	660	1325	1723	1243
U _{Osm} V (μOsm/min/kg.bw)	15.4	16.4	31.0	9.8	15.3	12.4
C _{Osm} (μOsm/min/kg.bw)	0.2	0.5	0.9	0.3	0.4	0.7
C _{H₂O} (μOsm/min/kg.bw)	-0.02	-0.3	-0.3	-0.2	-0.3	-0.5

Table 8 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group II No.VIII weighing 14 kgs.

parameter	control	ureteral obstruction	hypotonic solution	indomethacin		
				15min	30min	45min
MAP (mmHg)	101.3	124.7	131.7	65.7	57	61
HR (beat/min)	168	180	174	144	132	144
CO (L./min)	2.0	-	3.5	3.9	-	3.1
PV (L.)	1.2	-	1.4	0.8	-	1.1
BV (L.)	1.5	-	1.8	0.9	-	1.4
PCV (%)	23	23	19	17	18	19
TPR (dyne-sec/cm ⁵)	3984	-	3050	1317	-	1575
RVR (dyne-sec/cm ⁵)	38284	54040	67917	38756	33779	37021
V (μl/min/kg.bw)	19.3	15.7	16.4	5.7	4.3	4.3
RPF (ml/min/kg.bw)	4.5	3.0	1.8	0.9	0.8	0.5
RBF (ml/min/kg.bw)	5.8	3.9	2.3	1.1	0.9	0.6
GFR (ml/min/kg.bw)	1.1	1.3	0.7	0.4	0.2	0.2
FF (%)	23.7	42.6	40.9	39.5	30.1	47.1
RF (%)	10.4	-	4.5	3.4	-	4.3
P _{Na} (mEq/L.)	133	133	132	133	135	134
P _K (mEq/L.)	3.1	2.7	2.9	3.1	2.8	2.9
P _{Cl} (mEq/L.)	112	112	114	116	113	114
U _{Na} V (μEq/min/kg.bw)	7.9	4.6	6.7	3.7	2.9	2.9
U _K V (μEq/min/kg.bw)	14.6	16.5	11.3	5.2	3.9	3.9
U _{Cl} V (μEq/min/kg.bw)	3.8	1.9	4.1	1.1	0.9	0.8
FE of Na (%)	0.4	0.2	0.3	0.2	0.1	0.1
FE of K (%)	31.6	40.9	26.1	11.2	9.3	9.0
FE of Cl (%)	0.2	0.1	0.2	0.1	0.1	0.04
P _{Osm} (mOsm/kg.bw)	300	302	252	230	238	232
U _{Osm} (mOsm/kg.bw)	391	449	390	470	470	461
U _{Osm} V (μOsm/min/kg.bw)	7.4	7.2	6.24	2.7	2.0	1.9
C _{Osm} (μOsm/min/kg.bw)	0.4	0.3	0.3	0.1	0.1	0.1
C _{H₂O} (μOsm/min/kg.bw)	-0.1	-0.1	-0.1	-0.04	-0.04	-0.03

Table 9 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group II No.IX weighing 18.5 kgs.

parameter	control	ureteral obstruction	hypotonic solution	indomethacin		
				15 min	30 min	45 min
MAP (mmHg)	130.7	116.7	136.7	141.3	145	149
HR (beat/min)	144	144	138	138	138	144
CO (L./min)	2.5	-	2.6	1.3	-	1.7
PV (L.)	1.1	-	1.1	0.8	-	0.9
BV (L.)	1.8	-	1.9	1.3	-	1.7
PCV (%)	42	45	43	41	41	41
TPR (dyne-sec/cm ⁵)	4244	-	4151	8628	-	6833
RVR (dyne-sec/cm ⁵)	33248	31955	36057	38537	36316	38531
V (ml/min/kg.bw)	10.8	11.9	12.4	13.5	14.1	13.5
RPF (ml/min/kg.bw)	4.4	3.3	3.9	3.9	4.8	4.5
RBF (ml/min/kg.bw)	7.7	5.9	6.9	6.7	8.1	7.6
GFR (ml/min/kg.bw)	0.7	0.8	0.8	1.1	0.8	1.0
FF (%)	15.8	23.1	19.2	26.9	17.4	22.5
RF (%)	12.8	-	11.5	22.4	-	17.7
P _{Na} (mEq/L.)	146	146	140	141	140	140
P _K (mEq/L.)	3.3	3.2	2.8	3.1	3.0	3.2
P _{Cl} (mEq/L.)	114	121	109	107	112	103
U _{Na} V (μEq/min/kg.bw)	41.2	30.8	30.4	27.5	31.9	38.3
U _K V (μEq/min/kg.bw)	11.8	14.3	15.2	19.3	22.6	25.8
U _{Cl} V (μEq/min/kg.bw)	23.8	12.1	12.2	8.3	6.5	6.5
FE of Na (%)	2.3	1.6	1.7	1.5	1.8	2.1
FE of K (%)	27.9	34.9	42.3	48.6	58.8	62.9
FE of Cl (%)	1.6	0.8	0.9	0.6	0.5	0.5
P _{Osm} (mOsm/kg.bw)	306	315	295	300	301	310
U _{Osm} (mOsm/kg.bw)	1130	768	782	825	825	931
U _{Osm} V (μOsm/min/kg.bw)	12.2	9.1	9.7	11.1	11.6	12.6
C _{Osm} (μOsm/min/kg.bw)	0.7	0.5	0.6	0.7	0.7	0.7
C _{H₂O} (μOsm/min/kg.bw)	-0.5	-0.3	-0.4	-0.4	-0.5	-0.5

Table 10 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group II No.X weighing 17 kgs.

parameter	control	ureteral obstruction	hypotonic solution	indomethacin		
				15min	30min	45min
MAP (mmHg)	137.3	143	154	147	150.7	153
HR (beat/min)	174	192	204	216	204	198
CO (L./min)	2.9	-	3.8	3.5	-	1.9
PV (L.)	1.7	-	1.2	0.7	-	0.6
BV (L.)	2.6	-	1.9	1.3	-	0.9
PCV (%)	34	36	40	41	39	39
TPR (dyne-sec/cm ⁵)	3813	-	3243	3395	-	6139
RVR (dyne-sec/cm ⁵)	48362	57777	43117	46535	47342	39098
V (µl/min/kg.bw)	7.6	7.1	8.8	8.2	17.6	16.5
RPF (ml/min/kg.bw)	2.9	1.6	4.2	2.9	3.3	5.3
RBF (ml/min/kg.bw)	4.4	2.5	7.0	4.9	5.3	8.8
GFR (ml/min/kg.bw)	0.7	0.5	0.8	0.5	1.1	1.2
FF (%)	15.6	30.8	18.6	17.1	33.5	22.4
RF (%)	7.9	-	7.5	7.3	-	15.7
P _{Na} (mEq/L.)	142	153	146	148	149	145
P _K (mEq/L.)	3.4	3.8	3.9	3.9	3.9	4.1
P _{Cl} (mEq/L.)	114	109	111	110	111	111
U _{Na} V (µEq/min/kg.bw)	23.7	22.2	21.3	25.8	24.3	22.4
U _K V (µEq/min/kg.bw)	9.5	12.7	14.7	13.9	15.3	15.7
U _{Cl} V (µEq/min/kg.bw)	30.6	27.6	25.7	21	20.7	14
FE of Na (%)	1.4	1.2	1.2	1.5	1.4	1.3
FE of K (%)	23.7	28.4	32.0	30.3	33.3	32.5
FE of Cl (%)	2.3	2.1	1.9	1.6	1.6	1.1
P _{Osm} (mOsm/kg.bw)	315	314	301	298	298	298
U _{Osm} (mOsm/kg.bw)	1332.6	1446	1007.4	1219	788.4	874
U _{Osm} V (µOsm/min/kg.bw)	10.1	10.3	8.9	9.9	13.9	14.4
C _{Osm} (µOsm/min/kg.bw)	0.6	0.6	0.5	0.6	0.8	0.8
C _{H₂O} (µOsm/min/kg.bw)	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5

Table 11 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group III No.XI weighing 10.5 kgs.

parameter	control	ureteral obstruction	furosemide	indomethacin		
				15min	30min	45min
MAP (mmHg)	146.3	139.7	142.3	155	156.3	156.7
HR (beat/min)	174	174	186	204	204	216
CO (L./min)	1.8	-	1.5	1.4	-	1.4
PV (L.)	0.7	-	0.6	0.8	-	0.6
BV (L.)	0.9	-	0.9	1.0	-	0.8
PCV (%)	27	27	30	27	27	28
TPR (dyne-sec/cm ⁵)	6466	-	7829	8651	-	9034
RVR (dyne-sec/cm ⁵)	61616	55704	72263	80966	80213	78424
V (μl/min/kg.bw)	7.6	9.5	11.7	17.1	24.8	26.7
RPF (ml/min/kg.bw)	3.7	4.4	0.9	1.1	1.3	1.4
RBF (ml/min/kg.bw)	5.0	6.1	1.4	1.5	1.8	1.9
GFR (ml/min/kg.bw)	0.9	0.8	0.2	0.3	0.3	0.3
FF (%)	24.2	18.6	22.5	30.5	23.1	23.4
RF (%)	10.5	-	10.8	10.7	-	11.5
P _{Na} (mEq/L.)	143	141	140	139	137	139
P _K (mEq/L.)	4.4	3.8	3.8	4.0	4.1	4.0
P _{Cl} (mEq/L.)	104	105	108	107	110	110
U _{Na} V (μEq/min/kg.bw)	13.04	14.9	12.9	15.3	23.1	25.2
U _K V (μEq/min/kg.bw)	7.4	8.2	4.9	6.1	8.6	9.8
U _{Cl} V (μEq/min/kg.bw)	5.3	4.9	18.1	20.7	25.2	26.3
FE of Na (%)	0.5	0.5	0.5	0.6	0.9	0.9
FE of K (%)	8.7	11.2	6.7	7.9	10.9	12.7
FE of Cl (%)	0.3	0.2	0.9	1.0	1.2	1.2
P _{Osm} (mOsm/kg.bw)	327.4	307.4	347.2	309.6	312.8	311
U _{Osm} (mOsm/kg.bw)	1714	1249	693	348.6	332	349
U _{Osm} V (μOsm/min/kg.bw)	13.0	11.9	8.1	5.9	8.2	9.3
C _{Osm} (μOsm/min/kg.bw)	0.4	0.4	0.2	0.2	0.3	0.3
C _{H₂O} (μOsm/min/kg.bw)	-0.3	-0.3	-0.1	-0.02	-0.01	-0.03

Table 12 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group III No.XII weighing 11.5 kgs.

parameter	control	ureteral obstruction	furosemide	indomethacin		
				15min	30min	45min
MAP (mmHg)	103	85.3	85.3	83.7	73.3	72.3
HR (beat/min)	162	162	174	168	162	168
CO (L./min)	1.4	-	1.4	1.3	-	0.9
PV (L.)	1.4	-	0.5	0.6	-	0.7
BV (L.)	1.7	-	0.7	0.8	-	0.9
PCV (%)	20	19	26	25	26	25
TPR (dyne-sec/cm ⁵)	5846	-	5047	5135	-	6399
RVR (dyne-sec/cm ⁵)	59376	45457	24027	37784	24711	26950
V (μl/min/kg.bw)	6.9	8.7	269.6	208.7	234.8	217.4
RPF (ml/min/kg.bw)	0.9	1.9	9.6	2.9	6.6	5.3
RBF (ml/min/kg.bw)	1.2	2.3	12.9	3.8	8.9	7.1
GFR (ml/min/kg.bw)	0.6	0.8	3.0	1.6	1.4	1.4
FF (%)	64.1	42.5	31.5	55.9	21.1	26.7
RF (%)	9.8	-	21.0	13.6	-	23.7
P _{Na} (mEq/L.)	143	142	142	142	142	140
P _K (mEq/L.)	6.1	3.6	3.4	3.3	3.2	3.2
P _{Cl} (mEq/L.)	116	119	116	117	123	119
U _{Na} V (μEq/min/kg.bw)	6.7	8.1	331.7	285.6	313.2	285
U _K V (μEq/min/kg.bw)	8.3	8.2	37.2	28.8	35.1	32.5
U _{Cl} V (μEq/min/kg.bw)	2.1	3	365.8	295.2	324	295
FE of Na (%)	0.3	0.3	13.8	11.9	13.0	12.0
FE of K (%)	8.0	13.4	64.6	51.5	64.7	59.9
FE of Cl (%)	0.1	0.1	18.6	14.9	15.5	14.6
P _{Osm} (mOsm/kg.bw)	366.4	322	327.4	351	319	324
U _{Osm} (mOsm/kg.bw)	931	810	311	310	306	319.6
U _{Osm} V (μOsm/min/kg.bw)	6.4	7.0	83.8	64.7	71.8	69.5
C _{Osm} (μOsm/min/kg.bw)	0.2	0.3	2.9	2.1	2.6	2.5
C _{H₂O} (μOsm/min/kg.bw)	-0.1	-0.2	0.2	0.3	0.1	0.03

Table 13 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group III No.XIII weighing 12 kgs.

parameter	control	ureteral obstruction	furosemide	indomethacin		
				15min	30min	45min
MAP (mmHg)	124	121.7	122.7	123.7	123.3	123.3
HR (beat/min)	180	174	162	168	168	168
CO (L./min)	1.8	-	1.7	1.1	-	0.9
PV (L.)	0.5	-	0.4	0.4	-	0.4
BV (L.)	0.8	-	0.7	0.6	-	0.7
PCV (%)	40	36	43	40	38	38
TPR (dyne-sec/cm ⁵)	5452	-	5612	8684	-	11604
RVR (dyne-sec/cm ⁵)	48427	53756	48322	47623	52807	57766
V (ul/min/kg.bw)	4.6	8.3	210.8	50	33.3	35.8
RPF (ml/min/kg.bw)	1.9	1.3	1.3	2.1	0.5	0.5
RBF (ml/min/kg.bw)	3.2	2.1	2.3	3.4	2.1	0.8
GFR (ml/min/kg.bw)	0.4	0.2	0.5	0.3	0.3	0.1
FF (%)	23.3	17.4	35.3	16.8	21.8	18.4
RF (%)	11.3	-	11.6	18.2	-	20.1
P _{Na} (mEq/L.)	133	145	137	140	134	140
P _K (mEq/L.)	3.6	3.9	3.7	3.6	3.2	3.5
P _{Cl} (mEq/L.)	113	112	113	113	111	116
U _{Na} V (uEq/min/kg.bw)	8.6	18.9	328.9	66	42	47.7
U _K V (uEq/min/kg.bw)	4.7	6.7	25.3	15	10.4	10.3
U _{Cl} V (uEq/min/kg.bw)	4.7	13.3	349.1	78.6	49.6	53.3
FE of Na (%)	0.4	0.8	15.6	3.1	2.0	2.2
FE of K (%)	8.5	11.2	44.4	27.1	21.1	19.1
FE of Cl (%)	0.3	0.8	20.1	4.5	2.9	2.9
P _{Osm} (mOsm/kg.bw)	315	321.6	336	330	355	332
U _{Osm} (mOsm/kg.bw)	1156	1061	390	440	394	302
U _{Osm} V (uOsm/min/kg.bw)	5.3	8.8	82.2	22	13.1	10.8
C _{Osm} (uOsm/min/kg.bw)	0.2	0.3	2.9	0.8	0.4	0.4
C _{H₂O} (uOsm/min/kg.bw)	-0.1	-0.2	-0.4	-0.2	-0.04	-0.04

Table 14 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group III No.XIV weighing 11 kgs.

parameter	control	ureteral obstruction	furosemide	indomethacin		
				15min	30min	45min
MAP (mmHg)	130	101.7	102.7	108.3	112	115
HR (beat/min)	156	120	132	144	162	162
CO (L./min)	1.8	-	0.6	0.6	-	0.7
PV (L.)	0.6	-	0.3	0.3	-	0.4
BV (L.)	0.9	-	0.6	0.5	-	0.6
PCV (%)	36	36	46	43	41	40
TPR (dyne-sec/cm ⁵)	5900	-	13223	14660	-	12296
RVR (dyne-sec/cm ⁵)	61577	38844	39154	43840	40795	48770
V (μl/min/kg.bw)	12.3	45.5	154.5	94.5	142.7	139.1
RPF (ml/min/kg.bw)	0.7	3.1	1.2	1.2	2.7	1.2
RBF (ml/min/kg.bw)	1.1	4.8	2.2	2.0	4.6	1.9
GFR (ml/min/kg.bw)	0.2	0.6	0.4	0.4	0.6	0.5
FF (%)	29.8	19.3	34	32.4	23.9	41.9
RF (%)	9.6	-	33.8	33.4	-	25.2
P _{Na} (mEq/L.)	139	137	139	137	140	140
P _K (mEq/L.)	3.4	2.9	3.1	2.8	3.0	3.1
P _{Cl} (mEq/L.)	108	113	112	114	116	116
U _{Na} V (μEq/min/kg.bw)	26.7	97	181.9	106.1	169.6	165.2
U _K V (μEq/min/kg.bw)	3.4	9	18.7	15.6	18.8	18.4
U _{Cl} V (μEq/min/kg.bw)	30.4	101.5	190.4	116.5	177.4	175.9
FE of Na (%)	1.6	5.7	10.6	6.3	9.8	9.6
FE of K (%)	8.1	25.1	48.9	45.1	50.8	48.1
FE of Cl (%)	2.3	7.3	13.8	8.3	12.4	12.3
P _{Osm} (mOsm/kg.bw)	302	324	311.4	313	322	335
U _{Osm} (mOsm/kg.bw)	764	606	281	289	299	315
U _{Osm} V (μOsm/min/kg.bw)	9.4	27.6	43.4	27.3	42.7	43.8
C _{Osm} (μOsm/min/kg.bw)	0.3	0.9	1.5	0.9	1.5	1.4
C _{H₂O} (μOsm/min/kg.bw)	-0.2	-0.4	0.2	0.1	0.1	0.1



Table 15 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group III No.XV weighing 16 kgs.

parameter	control	ureteral obstruction	furosemide	indomethacin		
				15 min	30 min	45 min
MAP (mmHg)	118	115.3	75.3	70	65.7	63.7
HR (beat/min)	156	150	102	96	96	96
CO (L./min)	3.1	-	1.1	1.2	-	1.2
PV (L.)	0.9	-	0.7	0.8	-	0.6
BV (L.)	1.2	-	0.9	1.1	-	0.9
PCV (%)	26	25	31	31	29	29
TPR (dyne-sec/cm ⁵)	2997	-	5477	4525	-	4261
RVR (dyne-sec/cm ⁵)	60223	58576	27845	30596	30119	27520
V (ul/min/kg.bw)	6.3	35	231.3	112.5	93.8	112.5
RPF (ml/min/kg.bw)	0.9	3.6	3.1	1.6	1.5	1.9
RBF (ml/min/kg.bw)	1.3	4.8	4.5	2.4	2.1	2.8
GFR (ml/min/kg.bw)	0.2	0.9	0.2	2.1	0.1	0.3
FF (%)	18.0	24.5	6.6	128.6	0.4	16.7
RF (%)	4.9	-	19.7	14.8	-	15.5
P _{Na} (mEq/L.)	138	136	139	135	136	140
P _K (mEq/L.)	2.8	2.6	2.4	2.2	2.2	2.6
P _{Cl} (mEq/L.)	102	110	110	102	100	105
U _{Na} V (uEq/min/kg.bw)	16.9	96.3	481	246.6	205.5	246.6
U _K V (uEq/min/kg.bw)	4.7	20.2	48.1	32.4	22.5	30.6
U _{Cl} V (uEq/min/kg.bw)	17	100.2	573.5	257.4	234	271.8
FE of Na (%)	0.9	5.5	26.9	14.2	11.8	13.7
FE of K (%)	13.1	60.6	156.3	114.9	79.8	91.8
FE of Cl (%)	1.3	7.1	40.7	19.7	18.3	20.2
P _{Osm} (mOsm/kg.bw)	309	315	311	313	301	315
U _{Osm} (mOsm/kg.bw)	733	614	332	377	359	381
U _{Osm} V (uOsm/min/kg.bw)	4.6	21.5	76.8	42.4	33.7	42.9
C _{Osm} (uOsm/min/kg.bw)	0.2	1.1	3.9	2.2	1.8	2.2
C _{H₂O} (uOsm/min/kg.bw)	-0.1	-0.5	-0.3	-0.4	-0.3	-0.4

Table 16 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group IV No.XVI weighing 15.5 kgs.

parameter	control	ureteral obstruction	ADH	indomethacin		
				15min	30min	45min
MAP (mmHg)	98	109	119.7	125.7	124	126
HR (beat/min)	192	198	198	198	192	192
CO (L./min)	2.6	-	4.5	4.3	-	3.4
PV (L.)	0.8	-	0.8	0.7	-	0.7
BV (L.)	1.2	-	1.2	0.9	-	0.9
PCV (%)	35	32	30	30	29	29
TPR (dyne-sec/cm ⁵)	2958	-	2104	2344	-	2967
RVR (dyne-sec/cm ⁵)	27420	43128	54158	65557	52596	59046
V (ul/min/kg.bw)	9.0	9.0	7.7	2.6	3.4	6.2
RPF (ml/min/kg.bw)	5.5	2.4	1.5	0.5	2.2	1.4
RBF (ml/min/kg.bw)	8.5	3.6	2.2	0.7	3.1	1.9
GFR (ml/min/kg.bw)	1.4	0.8	0.5	0.2	0.6	0.5
FF (%)	26.0	32.9	33.3	47.9	26.2	39.5
RF (%)	10.8	-	3.9	3.6	-	5.0
P _{Na} (mEq/L.)	138	137	140	138	135	139
P _K (mEq/L.)	3.7	3.3	3.3	3.3	3.6	3.5
P _{Cl} (mEq/L.)	115	113	119	117	116	114
U _{Na} V (μEq/min/kg.bw)	25.5	24.4	22.1	7.5	9.9	18.1
U _K V (μEq/min/kg.bw)	0.9	6.7	4.3	2.1	3.9	6.1
U _{Cl} V (μEq/min/kg.bw)	23.5	22.1	18.9	5.5	6.5	8.8
FE of Na (%)	0.8	0.8	0.7	0.2	0.3	0.6
FE of K (%)	1.1	9.1	5.9	2.9	4.9	7.8
FE of Cl (%)	0.9	0.9	0.7	0.2	0.3	0.3
P _{Osm} (mOsm/kg.bw)	315	300	328	310	316	309
U _{Osm} (mOsm/kg.bw)	891	805	689	852	1036	922
C _{Osm} (μOsm/min/kg.bw)	0.4	0.4	0.3	0.1	0.2	0.3
U _{Osm} V (μOsm/min/kg.bw)	8.0	7.2	5.3	2.2	3.5	5.7
C _{H₂O} (μOsm/min/kg.bw)	-0.3	-0.2	-0.1	-0.1	-0.1	-0.2
Stroke volume (ml/beat)	13.5	-	22.7	21.7	-	27.7

Table 17 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group IV No.XVII weighing 12 kgs.

parameter	control	ureteral obstruction	ADH	indomethacin		
				15min	30 min	45min
MAP (mmHg)	140.3	137.7	138.3	145	147.7	150.7
HR (beat/min)	198	204	210	216	228	234
CO (L./min)	2.1	-	2.6	3.3	-	3.2
PV (L.)	0.7	-	0.7	0.6	-	0.6
BV (L.)	0.9	-	1.1	0.9	-	0.9
PCV (%)	33	32	32	32	33	33
TPR (dyne-sec/cm ⁵)	5259	-	4237	3473	-	3719
RVR (dyne-sec/cm ⁵)	54719	50820	48133	47187	45660	55890
V (μl/min/kg.bw)	36.3	35.4	33.3	15.8	22.3	25.8
RPF (ml/min/kg.bw)	3.1	3.9	4.7	5.6	6.1	3.7
RBF (ml/min/kg.bw)	4.7	5.8	6.9	8.3	9.1	5.5
GFR (ml/min/kg.bw)	1.3	0.8	0.7	0.9	1.2	0.9
FF (%)	40.7	20.5	15.2	16.7	19.5	24
RF (%)	9.6	-	8.8	7.4	-	6.7
P _{Na} (mEq/L.)	140	140	141	142	140	140
P _K (mEq/L.)	4.2	3.5	3.5	3.6	3.6	3.6
P _{Cl} (mEq/L.)	115	116	113	117	118	116
U _{Na} V (μEq/min/kg.bw)	79.2	74.4	67.2	35.5	45.7	44.9
U _K V (μEq/min/kg.bw)	14.4	16.6	17.2	12.7	16.8	15.8
U _{Cl} V (μEq/min/kg.bw)	85.7	78.6	70.8	32.5	40.3	42.5
FE of Na (%)	3.7	3.5	3.1	1.7	2.2	2.1
FE of K (%)	22.6	31.3	32.4	23.3	30.8	28.9
FE of Cl (%)	4.9	4.5	4.1	1.8	2.3	2.4
P _{Osm} (mOsm/kg.bw)	329	325	327	337	329	336
U _{Osm} (mOsm/kg.bw)	577	550	558	736	708	587
U _{Osm} V (μOsm/kg.bw)	20.9	19.5	18.6	11.6	15.8	15.1
C _{Osm} (μOsm/min/kg.bw)	0.8	0.7	0.7	0.4	0.6	0.5
C _{H₂O} (μOsm/min/kg.bw)	-0.3	-0.3	-0.3	-0.2	-0.3	-0.2
Stroke volume (ml/beat)	10.6	-	12.4	15.3	-	13.7

Table 18 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group IV No.XVIII weighing 13 kgs.

parameter	control	ureteral obstruction	ADH	indomethacin		
				15min	30min	45min
MAP (mmHg)	147	136	143	152.3	144.3	144
HR (beat/min)	216	204	198	192	210	204
CO (L./min)	2.3	-	2.5	2.01	-	1.5
PV (L.)	0.9	-	0.9	0.9	-	0.8
BV (L.)	1.3	-	1.5	1.5	-	1.4
PCV (%)	30	39	37	38	38	39
TPR (dyne-sec/cm ⁵)	5020	-	4626	6046	-	7745
RVR (dyne-sec/cm ⁵)	52730	36829	64512	66824	48025	68429
V (ul/min/kg.bw)	10.4	26.2	20	17.7	13.8	10.8
RPF (ml/min/kg.bw)	4.3	13.8	4.7	8.7	3.8	7.9
RBF (ml/min/kg.bw)	6.2	22.7	1.8	14.0	6.1	12.9
GFR (ml/min/kg.bw)	0.7	1.6	0.5	1.8	1.1	1.1
FF (%)	16.9	11.4	9.7	20.3	28.3	16.9
RF (%)	9.5	-	7.2	9.0	-	11.3
P _{Na} (mEq/L.)	142	140	141	140	140	142
P _K (mEq/L.)	4.9	4.0	4.0	4.1	4.3	3.8
P _{Cl} (mEq/L.)	103	106	107	109	109	101
U _{Na} V (μEq/min/kg.bw)	27	66.6	50.2	44.2	33.8	24.9
U _K V (μEq/min/kg.bw)	11.1	23.8	15.3	25.3	27.7	18.1
U _{Cl} V (μEq/min/kg.bw)	41.2	100.9	71.8	65.3	47.2	30.7
FE of Na (%)	1.5	3.8	2.8	2.5	1.9	1.4
FE of K (%)	18.1	47.6	30.6	49.4	51.5	38.1
FE of Cl (%)	3.3	7.6	5.4	4.8	3.5	2.4
P _{Osm} (mOsm/kg.bw)	324	315	316	321	312	321
U _{Osm} (mOsm/kg.bw)	1595	1123	987	1351	1498	1416
U _{Osm} V (μOsm/min/kg.bw)	11.6	29.4	19.7	23.9	20.7	15.3
C _{Osm} (μOsm/min/kg.bw)	0.7	1.2	0.8	0.9	0.8	0.6
C _{H₂O} (μOsm/min/kg.bw)	-0.5	-0.9	-0.6	-0.7	-0.7	-0.5
Stroke volume (ml/beat)	10.6	-	12.6	10.5	-	7.4

Table 19 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group IV No.XIX weighing 10.5 kgs.

parameter	control	ureteral obstruction	ADH	indomethacin		
				15min	30min	45min
MAP (mmHg)	115.7	116	119.7	109.3	105.7	103.3
HR (beat/min)	138	102	102	192	174	180
CO (L/min)	2.1	-	2.7	2.0	-	1.6
PV (L.)	0.6	-	0.5	0.5	-	0.5
BV (L.)	0.8	-	0.8	0.7	-	0.7
PCV (%)	29	28	28	29	28	28
TPR (dyne-sec/cm ⁵)	4378	-	3611	4286	-	5098
RVR (dyne-sec/cm ⁵)	39353	52438	57023	44775	40748	43676
V (μl/min/kg.bw)	10	16.2	13.3	19.0	35.2	20.9
RPF (ml/min/kg.bw)	6.4	2.6	1.9	3.7	4.7	3.5
RBF (ml/min/kg.bw)	8.9	3.6	2.8	5.2	6.5	4.8
GFR (ml/min/kg.bw)	0.5	1.1	0.9	1.1	3.2	0.5
FF (%)	8.3	41.9	48.6	29.2	68.1	16.0
RF (%)	11.1	-	6.3	9.6	-	11.7
P _{Na} (mEq/L.)	142	148	151	149	150	148
P _K (mEq/L.)	6.4	3.8	3.9	4.0	4.0	4.0
P _{Cl} (mEq/L.)	109	112	110	113	113	112
U _{Na} V (μEq/min/kg.bw)	19.6	31.6	26.2	37	66.6	40.5
U _K V (μEq/min/kg.bw)	7.9	7.1	9.7	15.8	16.7	19.4
U _{Cl} V (μEq/min/kg.bw)	13.9	28.4	19.5	32.8	50.3	41.1
FE of Na (%)	0.8	13.7	1.1	1.6	2.8	1.8
FE of K (%)	7.9	11.9	15.9	25.3	26.7	31.0
FE of Cl (%)	8.2	1.6	1.1	1.9	2.8	2.3
P _{Osm} (mOsm/kg.bw)	342	322	314	318	313	315
U _{Osm} (mOsm/kg.bw)	1054	868	881	1021	687	1080
U _{Osm} V (μOsm/min/kg.bw)	10.5	14.1	11.7	19.4	24.2	22.6
C _{Osm} (μOsm/min/kg.bw)	0.3	0.5	0.4	0.6	0.8	0.8
C _{H₂O} (μOsm/min/kg.bw)	-0.2	-0.3	-0.3	-0.4	-0.4	-0.5
Stroke volume (ml/beat)	15.2	-	26.5	10.4	-	8.9

Table 20 The effects of intravenous injection of 5 mg/kg.bw. of indomethacin on cardiovascular and renal parameter of dogs group IV No.XX weighing 13 kgs.

parameter	control	ureteral obstruction	ADH	indomethacin		
				15 min	30 min	45 min
MAP (mmHg)	152.7	158.3	154.3	156.3	146	158.7
HR (beat/min)	162	180	186	186	198	198
CO (L/min)	1.6	-	1.8	1.6	-	1.6
PV (L.)	0.8	-	0.7	0.8	-	1.8
BV (L.)	1.3	-	1.2	1.4	-	2.9
PCV (%)	28	28	28	28	28	28
TPR (dyne-sec/cm ⁵)	4325	-	3283	2850	-	3946
RVR (dyne-sec/cm ⁵)	64255	69887	59708	61535	62311	50172
V (μl/min/kg.bw)	8.1	12.3	10.8	13.8	16.9	18.5
RPF (ml/min/kg.bw)	2.8	2.3	3.8	3.6	2.7	6.3
RBF (ml/min/kg.bw)	3.9	3.3	5.2	4.9	3.7	8.8
GFR (ml/min/kg.bw)	0.6	0.8	0.8	0.9	1.2	0.6
FF (%)	21.5	33.1	21.8	25.4	45.1	8.8
RF (%)	6.7	-	5.5	4.6	-	7.9
P _{Na} (mEq/L.)	152	141	147	147	146	146
P _K (mEq/L.)	5.9	3.6	3.9	3.5	3.5	3.6
P _{Cl} (mEq/L.)	106	108	113	108	111	109
U _{Na} V (μEq/min/kg.bw)	20.5	31.0	27.3	35.1	42.7	45.6
U _K V (μEq/min/kg.bw)	6.3	8.2	7.0	8.6	10.8	11.8
U _{Cl} V (μEq/min/kg.bw)	9.9	17.6	18.9	23.0	29.0	25.9
FE of Na (%)	0.2	0.8	2.4	0.8	0.6	0.8
FE of K (%)	19.9	47.9	56.3	43.6	7.8	13.1
FE of Cl (%)	0.2	1.1	1.02	0.2	0.1	0.2
P _{Osm} (mOsm/kg.bw)	338	316	337	325	316	318
U _{Osm} (mOsm/kg.bw)	979	1008	990	1009	928	962
U _{Osm} V (μOsm/min/kg.bw)	3.96	23.8	62.9	10.9	5.9	6.2
C _{Osm} (μOsm/min/kg.bw)	0.3	0.5	0.4	0.6	0.6	0.7
C _{H₂O} (μOsm/min/kg.bw)	-0.2	-0.4	-0.3	-0.4	-0.4	-0.5
Stroke volume (ml/beat)	9.9	-	9.7	8.6	-	8.1

BIOGRAPHY

Miss Sripatchara Mansap was born on February, 5, 1959 in Prachukirikhun and graduated with a B.Sc. in Nursing from Faculty of Nursing, Mahidol University in 1980. At present she is an instructor for Anatomy and Physiology in Rajburee Nursing Collage, Rajburee.



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