

Group I

Dog No.1

The contralateral control kidney mass 24.00 gm.

Body mass 10.00 kgs.

The intrarenal infusion kidney mass 24.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.47	0.38	0.33	0.30	0.49	1.18	0.45	0.26
ERPF (ml/min)	34.11	23.80	27.95	25.63	29.53	36.78	21.62	20.32
RBF (ml/min)	43.17	28.68	33.67	31.65	37.37	44.32	26.05	25.09
GFR (ml/min)	14.98	10.65	13.92	15.95	11.10	15.40	14.18	10.62
FF (%)	43.92	44.75	49.80	62.23	37.59	41.87	65.59	52.26
RVR (dyne-sec/cm ⁵)	176004.17	264926.78	261294.92	332731.96	203320.85	171434.27	337727.45	419727.64
Renal fraction (%)	6.01	3.65	6.01	3.88	5.19	5.64	5.19	3.07
U _{Na} ^V (uEq/min)	32.43	49.78	56.10	48.90	67.62	162.84	66.60	35.36
U _K ^V (uEq/min)	2.82	4.56	6.27	6.30	4.41	8.26	5.85	4.94
U _{Cl} ^V (uEq/min)	34.78	48.26	43.56	40.50	61.13	164.02	56.25	31.72
U _{Ca} ^V (mg%/min)	0.61	1.50	1.85	1.12	2.03	3.85	1.49	1.12
U _{Pi} ^V (mg%/min)	3.82	9.52	13.32	13.56	8.58	14.78	12.28	9.90
Excretion Na	1.48	3.39	2.46	2.16	4.17	7.19	2.87	2.34
fraction K (%)	6.28	13.81	12.87	11.29	13.24	17.30	11.79	13.29
Cl	2.07	4.05	2.43	1.99	4.92	9.51	3.08	2.35
Ca	0.50	1.84	1.22	0.89	2.25	3.27	1.38	1.27
P _i	8.31	29.50	32.66	26.82	25.18	31.67	29.56	29.41
U/P osmolarity ratio	0.66	0.89	1.54	1.56	0.69	0.70	0.89	1.23
C _{Osm} (ml/min)	0.31	0.34	0.51	0.47	0.34	0.83	0.40	0.32
C _{H₂O} (ml/min)	0.16	0.04	- 0.18	- 0.17	0.15	0.35	0.05	- 0.06
U _{Osm} (mOsm/L)	192.00	271.00	453.20	442.40	205.00	214.00	265.00	349.40

General Circulation

	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
	intrarenal infusion	intrarenal infusion	intrarenal infusion	intrarenal infusion
P _{Osm} (mOsm/L)	293.00	305.00	295.00	283.20
P _{Na} (mEq/L)	146.00	147.00	164.00	142.00
P _K (mEq/L)	3.00	3.10	3.50	3.50
P _{Cl} (mEq/L)	112.00	112.00	129.00	127.00
P _{Ca} (mg %)	8.14	7.64	7.64	7.87
P _{Pi} (mg %)	3.07	3.03	2.93	3.17
TPR (dyne-sec/cm ⁵)	10570.50	9668.00	12239.60	12896.10
CO (L/min)	0.71	0.78	0.71	0.81
PCV (%)	21	17	17	19
MAP (mmHg)	95.00	95.00	110.00	131.67
PV (L)	0.82	0.61	0.82	0.40
BV (L)	1.00	0.73	1.00	0.49
HR (beat/min)	126	127	107	103

Group I

Dog No.2

The contralateral control kidney mass 60.00 gm.

Body mass 17.00 kgs.

The intrarenal infusion kidney mass 61.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.24	0.26	0.34	0.33	0.20	0.25	0.26	0.22
ERPF (ml/min)	118.45	118.43	125.18	123.81	111.49	90.72	105.91	105.56
RBF (ml/min)	185.07	179.43	186.83	184.79	174.20	137.45	158.07	157.56
GFR (ml/min)	36.58	18.29	64.45	76.48	36.50	44.04	64.75	58.21
FF (%)	30.04	15.44	49.80	61.77	32.74	48.54	65.59	55.14
RVR (dyne-sec/cm ⁵)	57620.00	60621.30	57650.84	59152.92	61215.46	79136.27	68140.11	67557.89
Renal fraction (%)	10.36	11.33	10.36	9.98	9.75	8.68	9.75	8.51
U _{Na} V (uEq/min)	49.44	49.92	59.50	78.54	41.60	53.50	56.68	47.96
U _K V (uEq/min)	16.80	15.60	10.88	23.10	15.80	15.70	15.60	16.28
U _{Cl} V (uEq/min)	15.60	20.02	32.30	28.71	14.80	21.75	40.30	1.98
U _{Ca} V (mg%/min)	0.83	1.24	1.06	0.92	0.89	0.97	1.22	0.89
U _{Pi} V (mg%/min)	30.76	31.14	33.26	32.46	25.08	20.60	23.44	24.26
Excretion Na fraction K (%)	0.95	1.91	0.64	0.76	0.08	0.85	0.60	0.61
Cl	15.30	27.51	5.63	10.07	14.42	11.49	8.03	9.32
Ca	0.04	0.91	0.44	0.30	0.34	0.41	0.54	0.27
Pi	0.30	0.86	0.20	0.17	0.32	0.28	0.23	0.21
U/P osmolarity ratio	24.66	47.03	15.59	19.98	20.15	12.92	10.94	12.75
U/P osmolarity ratio	2.48	2.01	0.98	2.39	2.54	2.56	2.14	1.99
C _{Osm} (ml/min)	0.59	0.52	0.33	0.79	0.51	0.64	0.56	0.44
C _{H₂O} (ml/min)	- 0.35	- 0.26	0.01	- 0.46	- 0.31	- 0.39	- 0.30	- 0.22
U _{Osm} (mOsm/L)	741.80	574.80	284.20	667.80	760.20	729.40	622.00	558.80

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	298.80	285.20	290.00	280.00
P _{Na} (mEq/L)	142.00	143.00	145.00	136.00
P _K (mEq/L)	3.00	3.10	3.00	3.00
P _{Cl} (mEq/L)	118.00	120.00	115.00	124.00
P _{Ca} (mg %)	7.51	7.84	8.09	7.18
P _{Pi} (mg %)	3.41	3.62	3.31	3.27
TPR (dyne-sec/cm ⁵)	5970.74	6871.23	6030.75	5905.46
CO (L/min)	1.78	1.58	1.78	1.85
PCV (%)	36	34	33	33
MAP (mmHg)	133.33	136.00	134.67	136.67
PV (L)	0.68	1.13	0.68	1.20
BV (L)	1.83	1.72	1.83	1.80
HR (beat/min)	147	140	125	152

Group I

Dog No.3

The contralateral control kidney mass 38.00 gm

Body mass 15.00 kgs.

The intrarenal infusion kidney mass 36.00 gm

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.42	0.47	0.56	0.44	0.475	1.04	0.98	0.58
ERPF (ml/min)	67.75	67.97	53.55	42.94	67.44	82.32	45.34	42.14
RBF (ml/min)	101.12	101.44	77.60	57.25	100.15	122.86	65.71	56.18
GFR (ml/min)	24.39	23.39	24.53	20.93	23.90	24.73	23.85	19.56
FF (%)	36.00	34.41	45.81	48.74	35.44	30.04	52.60	46.42
RVR (dyne-sec/cm ⁵)	104934.20	105391.63	140861.68	187202.10	105950.54	87017.15	166350.12	190767.53
Renal fraction (%)	6.28	6.77	6.28	5.20	6.22	8.20	6.22	5.11
U _{Na} V (uEq/min)	60.04	74.26	83.44	71.72	79.33	149.76	133.28	81.78
U _K V (uEq/min)	13.86	15.51	15.12	14.96	13.78	20.80	16.66	15.08
U _{Cl} V (uEq/min)	70.56	72.38	79.52	66.88	95.00	145.60	120.54	77.72
U _{Ca} V (mg%/min)	2.99	1.97	0.88	0.16	2.21	3.20	0.68	0.66
U _{Pi} V (mg%/min)	10.68	12.32	13.52	12.82	6.50	12.82	9.58	10.30
Excretion Na fraction	1.84	2.54	2.48	2.52	2.48	4.84	4.08	3.07
(%) K	20.29	25.50	20.55	23.83	20.59	32.35	23.28	25.69
Cl	2.45	2.56	2.68	3.33	3.37	4.87	4.18	4.14
Ca	1.65	1.10	0.51	0.11	1.24	1.69	0.40	0.49
Pi	19.21	23.51	31.32	32.75	11.93	23.14	22.82	28.16
U/P osmolarity ratio	1.61	1.56	0.86	1.32	1.18	0.99	0.92	0.98
C _{Osm} (ml/min)	0.68	0.73	0.48	0.58	0.56	1.04	0.90	0.57
C _{H₂O} (ml/min)	- 0.26	- 0.26	0.08	- 0.14	- 0.09	0	0.08	0.01
U _{Osm} (mOsm/L)	471.00	440.60	241.00	379.80	345.80	282.80	258.40	281.80

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	292.00	283.20	281.00	287.00
P _{Na} (mEq/L)	134.00	125.00	137.00	136.00
P _K (mEq/L)	2.80	2.60	3.00	3.00
P _{Cl} (mEq/L)	118.00	121.00	121.00	96.00
P _{Ca} (mg %)	7.43	7.63	7.04	6.81
P _{Pi} (mg %)	2.28	2.24	1.76	1.87
TPR (dyne-sec/cm ⁵)	6586.50	7136.85	6785.10	9741.30
CO (L/min)	1.61	1.49	1.61	1.10
PCV (%)	33	33	31	25
MAP (mmHg)	132.67	133.67	136.67	134.00
PV (L)	0.72	0.65	0.72	0.50
BV (L)	1.08	0.97	1.08	0.67
HR (beat/min)	176	182	147	147

Group I

Dog No.4

The contralateral control kidney mass 42.00 gm.

Body mass 14.50 kgs.

The intrarenal infusion kidney mass 43.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.13	0.12	0.12	0.11	0.14	0.16	0.13	0.12
ERPF (ml/min)	105.99	121.10	152.92	132.04	99.73	125.33	122.64	90.07
RBF (ml/min)	163.06	183.48	231.69	191.36	153.40	189.89	185.82	131.45
GFR (ml/min)	36.18	33.56	45.63	36.53	33.24	37.45	39.37	25.53
FF (%)	34.14	27.71	29.83	27.67	33.33	29.88	32.10	28.34
RVR (dyne-sec/cm ⁵)	70302.55	59575.25	46143.24	57259.93	74729.68	57564.20	57533.78	83356.87
Renal fraction (%)	11.49	16.22	11.49	12.52	10.82	16.79	10.82	8.59
U _{Na} V (uEq/min)	20.48	18.36	20.88	28.25	15.54	19.84	18.22	20.88
U _K V (uEq/min)	10.24	9.72	11.16	12.99	8.40	9.92	9.31	10.20
U _{Cl} V (uEq/min)	1.51	1.26	1.66	1.55	3.22	3.17	3.11	3.47
U _{Ca} V (mg%/min)	0.34	0.27	0.32	0.41	0.46	0.48	0.30	0.63
U _{Pi} V (mg%/min)	13.50	13.50	30.47	36.86	9.94	13.30	12.58	13.32
Excretion Na fraction K (%)	0.41	0.39	0.33	0.56	0.34	0.38	0.33	0.59
Cl	10.89	11.59	9.06	12.69	9.72	10.59	8.76	14.27
Ca	0.03	0.03	0.03	0.03	0.08	0.07	0.07	0.11
Pi	0.15	0.12	0.09	0.15	0.22	0.19	0.10	0.32
U/P osmolarity ratio	19.95	22.47	37.64	52.28	15.99	19.84	17.85	27.03
C _{Osm} (ml/min)	6.79	7.15	6.99	7.81	5.11	5.38	5.49	5.40
C _{H₂O} (ml/min)	0.90	0.86	0.84	0.88	0.71	0.86	0.73	0.65
U _{Osm} (mOsm/L)	- 0.77	- 0.74	- 0.72	- 0.77	- 0.57	- 0.70	- 0.59	- 0.53

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	290.00	284.00	285.20	287.00
P _{Na} (mEq/L)	139.00	141.00	140.00	139.00
P _K (mEq/L)	2.60	2.50	2.70	2.80
P _{Cl} (mEq/L)	129.00	115.00	121.00	122.00
P _{Ca} (mg %)	6.41	6.96	7.28	7.69
P _{Pi} (mg %)	1.87	1.79	1.79	1.93
TPR (dyne-sec/cm ⁵)	7724.73	9664.83	7537.25	7166.34
CO (L/min)	1.41	1.13	1.41	1.52
PCV (%)	35	34	34	31
MAP (mmHg)	143.33	136.67	133.67	137.00
PV (L)	0.66	1.10	0.66	0.74
BV (L)	1.01	1.67	1.01	1.08
HR (beat/min)	132	153	113	120

Group I

Dog No.5

The contralateral control kidney mass 44.00 gm.

Body mass 13.00 kgs.

The intrarenal infusion kidney mass 50.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.11	0.13	0.27	0.44	0.32	0.64	0.40	0.28
ERPF (ml/min)	74.25	77.44	68.74	52.51	70.41	75.00	66.58	42.99
RBF (ml/min)	100.33	104.64	92.89	72.93	95.14	101.35	89.97	59.70
GFR (ml/min)	20.87	22.06	23.55	13.74	20.37	23.86	23.47	10.79
FF (%)	28.11	28.49	34.26	26.17	28.93	31.81	35.25	25.09
RVR (dyne-sec/cm ⁵)	74933.92	74392.71	76346.50	99434.89	79021.65	76807.63	78824.35	121470.46
Renal fraction (%)	6.45	6.53	6.45	3.91	6.14	6.32	6.14	3.20
U _{Na} V (uEq/min)	20.79	22.36	31.59	29.48	65.92	115.84	44.80	33.04
U _K V (uEq/min)	9.90	9.49	8.10	14.08	6.40	12.16	18.40	14.56
U _{Cl} V (uEq/min)	2.64	5.85	17.36	35.86	51.52	128.00	31.72	21.39
U _{Ca} V (mg%/min)	0.72	0.77	1.29	2.27	2.71	3.10	1.70	1.17
U _{Pi} V (mg%/min)	11.92	25.52	18.26	24.68	27.54	34.54	28.30	23.38
Excretion Na	0.72	0.73	0.96	1.54	2.33	3.49	1.36	2.20
fraction K (%)	18.97	17.21	14.33	35.34	12.57	20.39	32.67	46.53
Cl	1.11	0.22	0.64	2.37	2.22	4.39	1.17	1.80
Ca	0.47	0.47	0.69	2.27	1.82	1.74	0.92	1.49
Pi	16.55	33.53	22.74	52.06	39.19	41.96	35.36	62.81
U/P osmolarity ratio	3.01	2.53	1.15	1.09	1.97	1.53	1.37	1.43
C _{Osm} (ml/min)	0.33	0.34	0.31	0.48	0.63	0.98	0.55	0.40
C _{H₂O} (ml/min)	- 0.22	- 0.21	- 0.04	- 0.04	- 0.31	- 0.34	- 0.15	- 0.12
U _{Osm} (mOsm/L)	817.00	711.40	316.40	320.80	534.00	431.00	378.20	418.20

General Circulation

	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
	intrarenal infusion	intrarenal infusion	intrarenal infusion	intrarenal infusion
P _{Osm} (mOsm/L)	271.60	281.20	275.30	292.40
P _{Na} (mEq/L)	139.00	139.00	140.00	139.00
P _K (mEq/L)	2.50	2.50	2.40	2.90
P _{Cl} (mEq/L)	114.00	122.00	116.00	110.00
P _{Ca} (mg %)	7.31	7.47	7.91	7.28
P _{Pi} (mg %)	3.45	3.45	3.41	3.45
TPR (dyne-sec/cm ⁵)	4834.83	4856.15	4560.66	3890.38
CO (L/min)	1.55	1.60	1.55	1.86
PCV (%)	26	26	26	28
MAP (mmHg)	94.00	97.33	88.67	90.67
PV (L)	0.72	0.91	0.72	0.58
BV (L)	1.04	1.24	1.04	0.80
HR (beat/min)	116	118	116	100

Group I

Dog No.6

The contralateral control kidney mass 40.00 gm.

Body mass 15.50 kgs.

The intrarenal infusion kidney mass 40.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.26	0.32	0.92	0.84	0.28	0.43	1.13	1.14
ERPF (ml/min)	90.50	100.85	98.68	77.99	84.97	88.58	100.69	76.91
RBF (ml/min)	139.26	155.15	151.82	119.98	130.74	136.28	154.91	118.32
GFR (ml/min)	31.53	34.96	29.00	35.58	31.13	29.93	30.30	34.36
FF (%)	34.84	34.67	29.39	45.62	36.64	33.79	30.09	44.67
RVR (dyne-sec/cm ⁵)	79980.00	70453.54	75507.40	94658.78	81362.55	80208.88	74001.25	95986.82
Renal fraction (%)	5.45	6.61	5.45	3.46	5.11	5.81	5.11	3.41
U _{Na} V (uEq/min)	101.40	96.00	187.68	171.36	94.64	112.66	214.70	212.04
U _K V (uEq/min)	11.70	13.44	46.00	47.04	9.24	12.90	47.46	52.44
U _{Cl} V (uEq/min)	60.84	81.28	182.16	155.40	63.56	105.35	205.66	198.36
U _{Ca} V (mg%/min)	0.98	1.37	2.99	2.12	1.67	2.03	2.47	2.59
U _{Pi} V (mg%/min)	27.34	32.00	39.54	35.82	25.60	26.18	32.72	35.44
Excretion Na fraction K (%) Cl Ca Pi	2.29 13.25 1.66 0.39 33.09	1.96 12.81 2.49 0.52 30.82	4.59 46.65 5.61 1.25 56.34	2.25 36.72 4.16 0.76 37.85	2.17 10.60 1.76 0.67 31.39	2.69 14.37 3.78 0.89 29.45	5.03 46.07 6.06 0.99 44.62	4.51 42.39 5.49 0.96 38.78
U/P osmolarity ratio	4.68	3.81	2.17	2.12	3.80	2.75	1.86	1.87
C _{Osm} (ml/min)	1.22	1.22	1.99	1.78	1.06	1.18	2.09	2.13
C _{H₂O} (ml/min)	- 0.96	- 0.90	- 1.07	- 0.94	- 0.78	- 0.75	- 0.96	- 0.99
U _{Osm} (mOsm/L)	1298.00	1101.40	612.00	609.20	1053.60	795.00	524.40	536.20

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	277.20	289.00	282.20	287.00
P _{Na} (mEq/L)	140.00	140.00	141.00	137.00
P _K (mEq/L)	2.80	3.00	3.40	3.60
P _{Cl} (mEq/L)	116.00	93.00	112.00	105.00
P _{Ca} (mg %)	7.96	7.56	8.23	7.89
P _{Pi} (mg %)	2.62	2.97	2.42	2.66
TPR (dyne-sec/cm ⁵)	4159.27	4659.30	4482.59	3271.12
CO (L/min)	2.55	2.34	2.55	3.47
PCV (%)	35	35	35	35
MAP (mmHg)	133.00	136.67	143.33	142.00
PV (L)	0.77	0.80	0.77	0.66
BV (L)	1.18	1.23	1.18	1.02
HR (beat/min)	142	159	152	140

Dog No.1

The contralateral control kidney mass 33.00 gm.

Body mass 15.00 kgs.

The intrarenal infusion kidney mass 40.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.14	0.12	0.14	0.11	0.15	0.19	0.155	0.05
ERPF (ml/min)	57.58	51.43	51.29	50.66	49.41	55.73	45.84	12.75
RBF (ml/min)	76.77	69.50	67.94	66.22	65.78	75.31	59.92	16.66
GFR (ml/min)	24.01	22.81	27.19	28.23	22.03	20.96	24.52	8.66
FF (%)	41.69	44.35	53.01	55.72	44.59	37.61	53.49	67.92
RVR (dyne-sec/cm ⁵)	88554.12	95135.92	96143.17	103471.56	103349.04	87796.39	109011.46	411277.71
Renal fraction (%)	9.21	7.89	9.21	8.08	7.89	8.55	7.89	2.03
U _{Na} V (uEq/min)	32.76	39.75	48.72	36.30	33.30	52.44	48.36	15.71
U _K V (uEq/min)	19.32	17.63	19.18	15.84	14.70	16.72	13.78	4.55
U _{Cl} V (uEq/min)	31.36	41.63	40.46	37.29	30.30	56.43	47.43	16.55
U _{Ca} V (mg%/min)	0.77	0.47	0.53	0.29	0.69	0.95	0.64	0.31
U _{Pi} V (mg%/min)	9.24	10.18	12.54	14.18	8.38	9.38	8.90	5.80
Excretion Na	1.05	1.33	1.39	0.98	1.16	1.91	1.53	1.38
fraction K	22.35	23.42	20.75	15.59	18.54	24.17	16.53	14.59
(%) Cl	1.15	1.56	1.24	1.14	1.21	2.30	1.61	1.65
Ca	0.47	0.36	0.33	0.16	0.46	0.79	0.44	0.57
Pi	25.32	30.78	33.42	32.19	25.03	30.86	26.30	42.93
U/P osmolarity ratio	3.98	4.79	4.79	5.02	3.19	3.67	3.74	4.05
C _{Osm} (ml/min)	0.56	0.59	0.67	0.55	0.48	0.69	0.58	0.20
C _{H₂O} (ml/min)	- 0.42	- 0.47	- 0.53	- 0.44	- 0.33	- 0.50	- 0.43	- 0.15
U _{Osm} (mOsm/L)	1124.80	1403.00	1389.00	1409.60	903.40	1075.50	1085.20	1136.80

General Circulation

	Isotonic saline		Hypertonic saline		
	intrarenal infusion		intrarenal infusion		
	Isotonic saline		Isotonic saline	Hypotonic saline	
	intrarenal infusion		intrarenal infusion	intrarenal infusion	
P _{Osm} (mOsm/L)	282.70		293.20	290.00	281.00
P _{Na} (mEq/L)	130.00		131.00	129.00	131.00
P _K (mEq/L)	3.60		3.30	3.40	3.60
P _{Cl} (mEq/L)	114.00		117.00	120.00	116.00
P _{Ca} (mg %)	6.82		5.74	5.94	6.25
P _{Pi} (mg %)	1.52		1.45	1.38	1.56
TPR (dyne-sec/cm ⁵)	8150.40		7504.20	7883.90	8363.10
CO (L/min)	0.83		0.88	0.83	0.81
PCV (%)	25		26	24.50	23.50
MAP (mmHg)	85.00		82.67	81.67	85.67
PV (L)	0.65		1.01	0.65	0.32
BV (L)	0.87		1.36	0.87	1.22
HR (beat/min)	84		90	84	76

Group II

Dog No.2

The contralateral control kidney mass 34.00 gm.

Body mass 11.50 kgs.

The intrarenal infusion kidney mass 36.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.28	0.30	0.25	0.26	0.15	0.18	0.135	0.14
ERPF (ml/min)	38.55	27.07	27.57	29.43	15.79	16.30	12.68	14.40
RBF (ml/min)	62.17	42.29	41.78	43.93	41.55	25.48	19.22	21.49
GFR (ml/min)	16.07	12.63	14.35	15.15	7.22	7.26	6.75	7.42
FF (%)	41.69	46.66	52.05	51.48	45.73	44.54	53.23	51.53
RVR (dyne-sec/cm ⁵)	135504.16	201094.19	229085.84	217874.04	202750.74	333762.69	497981.61	445379.55
Renal fraction (%)	6.66	3.88	6.66	5.78	4.45	2.34	4.45	2.83
U _{Na} V (uEq/min)	21.84	21.90	22.50	21.50	8.40	8.46	8.10	8.26
U _K V (uEq/min)	8.68	8.40	7.50	8.06	4.50	4.68	3.92	4.06
U _{Cl} V (uEq/min)	6.72	7.83	7.43	7.62	1.76	2.23	2.13	2.44
U _{Ca} V (mg%/min)	0.42	0.44	0.39	0.36	0.19	0.24	1.18	0.14
U _{Pi} V (mg%/min)	19.56	21.78	19.86	20.42	9.00	10.82	9.34	8.62
Excretion Na	1.08	1.35	1.24	1.14	9.23	0.91	9.52	0.89
fraction K	31.77	41.57	29.04	28.00	36.66	40.29	32.26	28.79
(%) Cl	0.49	0.56	0.49	1.45	0.29	0.28	0.30	0.29
Ca	0.80	1.10	0.82	0.81	0.81	1.05	5.27	0.64
Pi	24.65	39.73	31.24	29.89	25.13	34.34	31.23	25.76
U/P osmolarity ratio	2.63	2.34	2.66	2.43	2.23	1.95	2.26	2.11
C _{Osm} (ml/min)	0.74	0.70	0.67	0.63	0.33	0.35	0.30	0.29
C _{H₂O} (ml/min)	- 0.46	- 0.40	- 0.42	- 0.37	- 0.18	- 0.17	- 0.17	- 0.15
U _{Osm} (mOsm/L)	748.60	686.00	766.60	726.00	634.00	573.00	649.80	628.00

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	284.80	293.40	287.80	298.20
P _{Na} (mEq/L)	126.00	128.00	126.00	125.00
P _K (mEq/L)	1.70	1.60	1.80	1.90
P _{Cl} (mEq/L)	85.00	111.00	105.00	113.00
P _{Ca} (mg %)	3.26	3.16	3.32	2.95
P _{Pi} (mg %)	4.96	4.34	4.43	4.51
TPR (dyne-sec/cm ⁵)	9028.31	7811.38	10257.43	12595.38
CO (L/min)	0.93	1.08	0.93	0.75
PCV (%)	38	36	34	33
MAP (mmHg)	105.33	106.33	119.67	119.67
PV (L)	0.63	0.47	0.63	0.88
BV (L)	1.03	0.74	1.03	1.32
HR (beat/min)	123	120	104	104

Dog No.3

Body mass 17.50 kgs.

The contralateral control kidney mass 42.00 gm.

The intrarenal infusion kidney mass 42.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.165	0.22	0.18	0.20	0.15	0.23	0.18	0.18
ERPF (ml/min)	78.49	61.91	62.11	52.05	72.63	65.51	54.02	49.07
RBF (ml/min)	120.73	92.24	95.55	88.22	111.73	100.78	83.10	83.16
GFR (ml/min)	28.08	23.66	18.19	25.00	24.97	23.44	14.16	22.25
FF (%)	35.78	38.22	29.29	48.03	34.38	35.78	26.21	45.34
RVR (dyne-sec/cm ⁵)	86121.09	95379.45	87890.11	94893.52	93058.27	87297.08	101057.76	100667.47
Renal fraction (%)	8.15	7.72	8.15	4.94	7.54	8.43	7.54	4.65
U _{Na} V (uEq/min)	22.94	30.58	22.50	26.40	21.30	44.16	25.92	23.58
U _K V (uEq/min)	19.37	9.46	22.68	25.30	17.70	16.56	19.08	20.52
U _{Cl} V (uEq/min)	9.14	13.68	8.64	9.76	8.85	26.06	12.37	9.47
U _{Ca} V (mg%/min)	1.15	0.76	0.48	0.65	0.93	1.07	0.64	0.46
U _{Pi} V (mg%/min)	25.58	39.42	33.96	38.64	19.18	30.84	29.06	25.82
Excretion Na fraction K (%)	0.62	0.97	0.92	0.81	0.65	1.42	1.37	0.81
Cl	27.59	14.81	40.22	33.73	28.35	26.17	43.47	30.74
Ca	0.29	0.54	0.39	0.35	0.32	1.04	0.72	0.38
Pi	0.56	0.51	0.42	0.42	0.51	0.72	0.71	0.33
U/P osmolarity ratio	29.67	56.86	62.86	57.49	25.02	44.90	69.09	43.14
	3.06	1.40	2.33	2.47	2.96	2.28	2.14	2.19
C _{Osm} (ml/min)	0.51	0.31	0.44	0.49	0.44	0.53	0.38	0.39
C _{H₂O} (ml/min)	- 0.35	- 0.09	- 0.26	- 0.29	- 0.29	- 0.30	- 0.20	- 0.21
U _{Osm} (mOsm/L)	898.00	424.40	700.40	742.00	868.80	692.00	641.00	658.20

General Circulation

	Isotonic saline		Hypertonic saline	
	intrarenal infusion		intrarenal infusion	
	Isotonic saline		Isotonic saline	Hypotonic saline
	intrarenal infusion		intrarenal infusion	intrarenal infusion
P _{Osm} (mOsm/L)	293.40		303.00	300.20
P _{Na} (mEq/L)	131.00		133.00	134.00
P _K (mEq/L)	2.50		2.70	3.10
P _{Cl} (mEq/L)	111.00		107.00	121.00
P _{Ca} (mg %)	7.31		6.35	6.34
P _{Pi} (mg %)	3.07		2.93	2.97
TPR (dyne-sec/cm ⁵)	7020.48		7578.73	5837.13
CO (L/min)	1.48		1.19	1.48
PCV (%)	35		35	35
MAP (mmHg)	130.00		110.00	105.00
PV (L)	2.03		0.87	2.03
BV (L)	3.04		1.30	3.04
HR (beat/min)	91		100	96
				78

Dog No.4

The contralateral control kidney mass 44.00 gm.

Body mass 13.00 kgs.

The intrarenal infusion kidney mass 47.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.52	0.99	0.32	0.36	0.72	1.64	0.68	0.55
ERPF (ml/min)	91.30	66.80	62.34	78.81	104.85	72.39	61.54	63.03
RBF (ml/min)	107.41	78.59	73.34	91.63	123.35	85.16	72.40	72.29
GFR (ml/min)	23.58	16.97	20.76	28.65	19.91	15.46	19.45	21.47
FF (%)	25.83	25.40	33.30	36.35	10.09	21.36	31.61	34.06
RVR (dyne-sec/cm ⁵)	54357.51	76326.51	87242.98	69828.66	47333.12	70437.99	88375.69	88510.17
Renal fraction (%)	2.76	4.68	2.76	7.15	3.17	5.07	3.17	5.64
U _{Na} V (uEq/min)	61.36	88.11	46.40	63.36	96.48	136.54	104.81	90.75
U _K V (uEq/min)	14.56	12.87	11.20	15.12	15.12	13.16	13.02	12.10
U _{Cl} V (uEq/min)	53.56	95.04	35.84	42.12	87.12	159.57	68.50	79.20
U _{Ca} V (mg%/min)	0.89	1.33	0.37	1.58	1.11	1.98	0.82	0.56
U _{Pi} V (mg%/min)	27.02	18.04	21.30	30.96	22.58	23.10	23.88	32.64
Excretion Na fraction	2.12	4.12	1.76	1.74	3.94	7.01	4.24	3.33
fraction K (%)	19.92	28.09	19.27	19.55	24.49	31.53	23.91	20.87
Cl	1.76	5.14	1.46	1.27	3.39	9.47	2.98	3.18
Ca	0.61	1.16	0.31	0.95	0.90	1.89	0.73	0.45
Pi	51.15	55.95	51.30	59.05	50.63	78.64	61.39	83.07
U/P osmolarity ratio	1.59	0.71	1.08	1.99	1.34	0.66	1.91	1.37
C _{Osm} (ml/min)	0.83	0.70	0.35	0.72	0.96	1.09	1.31	0.76
C _{H₂O} (ml/min)	- 0.31	0.29	- 0.03	- 0.36	- 0.24	0.56	- 0.63	- 0.21
U _{Osm} (mOsm/L)	459.40	202.00	310.00	572.40	386.60	188.60	547.60	395.20

	General Circulation			
	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	288.60	283.80	286.60	287.80
P _{Na} (mEq/L)	123.00	126.00	127.00	127.00
P _K (mEq/L)	3.10	2.70	2.80	2.70
P _{Cl} (mEq/L)	129.00	109.00	118.00	116.00
P _{Ca} (mg %)	6.17	6.77	5.75	5.81
P _{Pi} (mg %)	2.24	1.90	2.00	1.83
TPR (dyne-sec/cm ⁵)	1498.12	3570.58	1641.77	4994.86
Co (L/min)	3.89	1.68	3.89	1.28
PCV (%)	15	15	15	14
MAP (mmHg)	73.00	75.00	80.00	80.00
PV (L)	1.05	0.82	1.05	0.75
BV (L)	1.24	0.96	1.24	0.87
HR (beat/min)	126	126	104	98

Group II

Dog No.5
Body mass 17.00 kgs.

The contralateral control kidney mass 33.00 gm.
The intrarenal infusion kidney mass 36.00 gm.

Parameters	Contralateral control				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.15	0.28	0.36	0.24	0.21	0.50	0.47	0.19
ERPF (ml/min)	51.42	45.66	55.10	44.92	49.65	41.36	51.05	24.59
RBF (ml/min)	66.78	59.29	70.64	57.59	64.48	53.71	65.45	31.53
GFR (ml/min)	18.82	17.88	20.72	15.08	18.19	15.85	18.89	8.54
FF (%)	36.60	39.16	37.60	33.57	36.64	38.32	37.00	34.73
RVR (dyne-sec/cm ⁵)	132138.27	157383.48	150958.85	182861.03	136851.63	173734.25	162929.46	333998.30
Renal fraction (%)	3.05	2.31	3.05	2.46	2.95	2.08	2.95	1.34
U _{Na} V (uEq/min)	6.90	19.60	23.40	19.44	9.70	50.50	33.37	15.58
U _K V (uEq/min)	13.20	16.80	18.36	11.28	14.07	16.00	15.98	6.84
U _{Cl} V (uEq/min)	8.81	21.56	24.34	22.22	8.99	53.15	35.67	16.82
U _{Ca} V (mg%/min)	0.25	0.34	0.30	0.29	0.26	0.38	0.33	0.15
U _{Pi} V (mg%/min)	0.14	0.08	0.16	0.10	0.30	0.10	0.10	0.04
Excretion Na fraction K (%)	0.28	0.84	0.84	0.98	0.41	2.45	1.31	1.39
Cl	22.63	31.32	34.08	27.70	24.95	29.83	32.54	29.66
Ca	0.43	1.15	0.97	1.47	0.46	3.19	1.56	1.98
Pi	0.39	0.46	0.41	0.55	0.41	0.58	0.49	0.49
U/P osmolarity ratio	0.34	0.20	0.34	0.32	0.73	0.29	0.24	0.23
C _{Osm} (ml/min)	2.27	1.51	1.46	1.58	1.69	1.07	1.17	1.44
C _{H₂O} (ml/min)	0.34	0.42	0.53	0.38	0.36	0.53	0.55	0.27
U _{Osm} (mOsm/L)	- 0.19	- 0.14	- 0.17	- 0.14	- 0.15	- 0.03	- 0.08	- 0.08
	645.00	432.40	419.60	433.00	483.00	306.40	337.20	396.00

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	284.20	286.00	287.40	274.60
P _{Na} (mEq/L)	130.00	130.00	135.00	131.00
P _K (mEq/L)	3.10	3.00	2.60	2.70
P _{Cl} (mEq/L)	108.00	105.00	121.00	100.00
P _{Ca} (mg %)	3.35	4.12	3.53	3.52
P _{Pi} (mg %)	2.18	2.18	2.24	2.07
TPR (dyne-sec/cm ⁵)	4035.46	3643.27	4876.62	4491.91
CO (L/min)	2.18	2.56	2.18	2.34
PVC (%)	23	23	22	22
MAP (mmHg)	110.33	116.67	133.33	131.67
PV (L)	0.99	0.75	0.99	1.26
BV (L)	1.29	0.98	1.29	1.61
HR (beat/min)	138	129	154	135

Group II

Dog No.6

The contralateral control kidney mass 23.00 gm.

Body mass 15.00 kgs.

The intrarenal infusion kidney mass 28.00 gm.

Parameters	Contralateral control				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.71	0.68	0.96	0.72	0.88	1.00	0.34	0.18
ERPF (ml/min)	34.77	37.32	42.67	33.63	34.05	31.64	31.03	20.06
RBF (ml/min)	50.40	55.70	62.75	49.46	50.82	47.22	45.63	29.50
GFR (ml/min)	14.93	14.31	18.42	15.10	15.45	11.66	12.33	8.17
FF (%)	42.94	38.34	43.17	44.90	45.37	36.85	39.74	40.73
RVR (dyne-sec/cm ⁵)	172972.62	154115.86	110034.64	150920.61	171543.09	181792.74	151318.72	253035.03
Renal fraction (%)	3.32	5.06	3.32	5.95	3.35	4.29	3.35	3.55
U _{Na} V (uEq/min)	102.24	114.24	132.48	129.60	142.56	96.00	58.08	29.16
U _K V (uEq/min)	8.52	12.24	11.56	12.96	10.56	6.00	8.16	9.72
U _{Cl} V (uEq/min)	160.46	150.96	212.20	95.76	198.88	170.00	59.84	20.88
U _{Ca} V (mg%/min)	3.09	3.14	7.62	6.33	5.29	0.23	2.05	2.12
U _{Pi} V (mg%/min)	11.10	15.90	17.04	22.04	13.32	9.02	9.22	6.54
Excretion Na	5.15	6.00	5.41	6.55	6.94	6.19	3.36	2.72
fraction K (%)	16.78	28.51	18.95	26.01	20.10	17.15	20.05	36.05
Ca	9.03	9.34	10.15	5.56	10.82	12.90	4.29	2.24
Pi	3.19	3.57	5.38	5.31	5.29	0.32	1.60	3.29
U/P osmolarity ratio	56.32	73.09	46.96	81.54	65.31	50.89	37.96	44.72
C _{Osm} (ml/min)	1.03	1.32	1.38	1.58	1.21	0.75	1.66	1.97
C _{H₂O} (ml/min)	0.73	0.90	1.33	1.14	1.07	0.75	0.56	0.35
U _{Osm} (mOsm/L)	- 0.02	- 0.22	- 0.37	- 0.42	- 0.19	0.25	- 0.22	- 0.17
	304.80	389.50	408.40	465.20	357.60	222.00	489.20	581.80

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	295.20	294.20	295.00	295.00
P _{Na} (mEq/L)	133.00	133.00	133.00	131.00
P _K (mEq/L)	3.40	3.00	3.30	3.30
P _{Cl} (mEq/L)	119.00	113.00	113.00	114.00
P _{Ca} (mg %)	6.47	6.15	7.69	7.89
P _{Pi} (mg %)	1.32	1.52	1.97	1.79
TPR (dyne-sec/cm ⁵)	5744.55	7794.60	4549.80	8984.70
CO (L/min)	1.51	1.10	1.51	0.83
PVC (%)	33	33	32	32
MAP (mmHg)	109.00	107.33	86.33	93.33
PV (L)	0.76	0.61	0.76	0.71
BV (L)	1.13	0.92	1.13	1.04
HR (beat/min)	98	108	84	76

Dog No.1

Body mass 12.50 kgs.

The contralateral control kidney mass 29.00 gm.

The intrarenal infusion kidney mass 29.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	1.125	1.10	0.55	0.25	1.15	0.76	0.44	0.16
ERPF (ml/min)	121.64	132.36	113.12	88.81	114.66	103.77	93.10	65.03
RBF (ml/min)	199.41	216.98	179.56	138.77	187.97	170.11	147.79	101.61
GFR (ml/min)	25.09	32.24	26.21	23.09	22.93	22.69	20.96	17.69
FF (%)	20.63	24.36	23.17	25.99	19.99	21.87	22.51	27.20
RVR (dyne-sec/cm ⁵)	66848.54	56643.59	68448.02	66666.33	70916.99	72250.47	83162.09	91047.01
Renal fraction (%)	5.39	6.56	5.39	12.64	5.09	5.14	5.09	9.25
U _{Na} V (uEq/min)	81.00	84.70	48.95	18.25	81.65	58.52	36.52	11.36
U _K V (uEq/min)	16.88	20.90	20.35	14.75	17.25	16.72	16.72	11.20
U _{Cl} V (uEq/min)	58.28	60.28	38.94	14.30	64.17	44.16	29.13	8.46
U _{Ca} V (mg%/min)	2.08	2.34	1.25	0.74	1.56	1.18	0.64	0.44
U _{Pi} V (mg%/min)	27.78	23.38	8.82	4.48	25.32	13.02	7.66	2.78
Excretion Na fraction K (%)	2.45	2.01	1.44	0.59	2.69	1.97	1.34	0.49
Cl	24.92	24.01	32.35	26.62	27.86	27.29	33.24	26.38
Ca	2.02	1.67	1.25	0.51	2.43	1.74	1.17	0.39
Pi	1.14	1.10	0.70	0.50	0.94	0.79	0.45	0.39
U/P osmolarity ratio	28.83	21.91	10.72	6.62	28.76	17.34	11.64	5.36
U/P osmolarity ratio	0.57	0.87	1.28	1.49	0.82	0.89	1.24	1.44
C _{Osm} (ml/min)	0.64	0.96	0.70	0.37	0.95	0.68	0.55	0.23
C _{H₂O} (ml/min)	0.61	0.14	- 0.15	- 0.12	0.20	0.08	- 0.11	- 0.07
U _{Osm} (mOsm/L)	167.60	258.00	384.80	445.00	240.80	265.00	372.80	430.00

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	292.40	295.40	300.40	298.80
P _{Na} (mEq/L)	132.00	131.00	130.00	132.00
P _K (mEq/L)	2.70	2.70	2.40	2.40
P _{Cl} (mEq/L)	115.00	112.00	119.00	121.00
P _{Ca} (mg %)	7.26	6.57	6.77	6.37
P _{Pi} (mg %)	3.84	3.31	3.14	2.93
TFR (dyne-sec/cm ⁵)	3005.50	3094.25	2771.13	3002.50
CO (L/min)	3.69	3.31	3.69	1.09
PCV (%)	39	39	37	36
MAP (mmHg)	166.67	153.67	153.67	115.67
PV (L)	0.61	0.50	0.61	0.65
BV (L)	0.99	0.83	0.99	1.02
HR (beat/min)	260	244	244	244

Dog No.2

The contralateral control kidney mass 40.00 gm.

Body mass 14.00 kgs.

The intrarenal infusion kidney mass 36.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.39	0.25	0.15	0.14	0.18	0.18	0.12	0.10
ERFF (ml/min)	56.72	51.60	59.50	48.23	65.81	62.02	49.53	31.57
RBF (ml/min)	88.63	83.23	90.15	75.36	102.83	100.03	75.05	47.80
GFR (ml/min)	19.34	22.36	29.44	26.01	19.76	19.52	25.20	16.68
FF (%)	34.09	43.33	49.48	53.93	30.03	31.47	50.88	52.83
RVR (dyne-sec/cm ⁵)	128141.26	131967.48	129236.68	159546.09	110445.98	109803.59	155239.00	256555.09
Renal fraction (%)	11.08	11.77	11.08	6.82	12.85	14.14	12.85	4.33
U _{Na} V (uEq/min)	17.55	5.00	1.65	3.08	3.42	4.14	3.12	1.48
U _K V (uEq/min)	11.70	8.50	13.05	13.02	11.16	11.70	10.44	9.65
U _{Cl} V (uEq/min)	20.16	5.55	2.96	2.13	2.47	3.17	1.16	.0
U _{Ca} V (mg%/min)	1.17	0.81	0.46	0.37	0.43	0.43	0.24	0.35
U _{Pi} V (mg%/min)	8.94	7.06	8.30	10.84	10.64	8.82	6.42	6.52
Excretion Na fraction K (%)	0.69	0.17	0.30	0.09	0.13	0.16	0.09	0.07
Cl	25.21	16.53	18.47	19.25	23.53	26.06	17.26	22.25
Ca	1.01	0.25	0.09	0.08	0.12	0.16	0.04	0
Pi	0.88	0.48	0.21	0.19	0.32	0.29	0.13	0.29
U/P osmolarity ratio	10.65	7.45	5.89	7.62	12.41	10.66	5.32	7.15
C _{Osm} (ml/min)	0.94	1.67	2.35	2.39	1.56	1.79	2.40	2.33
C _{H₂O}	0.37	0.29	0.35	0.33	0.28	0.32	0.29	0.25
U _{Osm} (mOsm/L)	0.02	- 0.04	- 0.20	- 0.19	- 0.10	- 0.14	- 0.17	- 0.14
	282.00	349.40	692.40	704.20	468.20	538.40	707.40	686.40

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	300.40	299.60	294.20	294.20
P _{Na} (mEq/L)	130.00	131.00	131.00	130.00
P _K (mEq/L)	2.40	2.30	2.40	2.60
P _{Cl} (mEq/L)	103.00	100.00	113.00	107.00
P _{Ca} (mg %)	6.88	7.58	7.57	7.27
P _{Pi} (mg %)	4.34	4.24	4.79	5.47
TPR (dyne-sec/cm ⁵)	15900.08	17392.48	16310.98	12184.34
CO (L/min)	0.80	0.70	0.80	1.10
PVC (%)	36	38	34	36
MAP (mmHg)	142.00	137.33	145.67	150.33
PV (L)	0.59	0.57	0.59	0.58
BV (L)	0.90	0.93	0.90	0.91
HR (beat/min)	280	280	290	294

Dog No.3

Body mass 12.50 kgs.

The contralateral control kidney mass 31.00 gm

The intrarenal infusion kidney mass 38.00 gm

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	1.10	1.55	0.98	0.88	1.36	1.78	1.21	1.04
ERPF (ml/min)	117.91	137.82	95.95	90.39	118.38	136.76	93.75	100.15
RBF (ml/min)	178.65	208.82	145.38	139.06	179.36	207.21	142.05	154.07
GFR (ml/min)	34.07	31.44	34.52	32.13	35.36	33.09	35.64	35.30
FF (%)	28.89	22.81	35.98	35.55	29.87	24.19	38.02	35.25
RVR (dyne-sec/cm ⁵)	51484.47	44046.07	71518.78	69403.04	51280.67	44388.30	73195.35	62641.57
Renal fraction (%)	7.58	10.68	7.58	7.26	7.61	10.59	7.61	8.05
U _{Na} ^V (uEq/min)	228.80	244.90	174.44	160.16	250.24	302.60	217.80	183.04
U _K ^V (uEq/min)	34.10	31.00	29.40	25.52	35.36	35.60	31.46	28.09
U _{Cl} ^V (uEq/min)	235.40	224.75	165.62	196.24	274.72	331.08	169.40	173.68
U _{Ca} ^V (mg%/min)	2.13	1.72	1.98	1.80	2.85	4.06	1.78	1.77
U _{Pi} ^V (mg%/min)	30.64	23.26	39.62	23.30	16.18	23.40	32.96	29.38
Excretion Na fraction K (%)	4.69	5.41	3.56	3.49	4.95	6.35	4.30	3.63
Cl	30.33	29.88	25.81	24.82	30.30	32.60	26.75	24.86
Ca	6.39	6.16	3.87	5.50	7.19	8.63	3.83	4.43
Pi	0.89	0.80	0.85	0.79	1.15	1.80	0.74	0.71
U/P osmolarity ratio	26.37	22.56	39.71	24.17	13.42	21.56	32.00	27.74
C _{Osm} (ml/min)	1.57	0.92	1.52	1.09	1.38	0.94	1.41	1.32
C _{H₂O} (ml/min)	1.73	1.43	1.49	0.97	1.88	1.68	1.70	1.37
U _{Osm} (mOsm/L)	- 0.63	0.12	- 0.51	- 0.09	- 0.52	0.10	0.49	- 0.33
	464.00	274.40	436.00	320.80	407.60	280.80	403.40	384.20

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	294.80	298.30	286.40	292.00
P _{Na} (mEq/L)	143.00	144.00	142.00	143.00
P _K (mEq/L)	3.30	3.30	3.30	3.20
P _{Cl} (mEq/L)	108.00	116.00	124.00	111.00
P _{Ca} (mg %)	6.98	6.81	6.74	7.03
P _{Pi} (mg %)	3.41	3.28	2.89	3.00
TPR (dyne-sec/cm ⁵)	3252.75	3919.75	3677.00	4200.00
CO (L/min)	2.35	1.95	2.35	1.91
PVC (%)	34	34	34	35
MAP (mmHg)	115.00	115.00	130.00	120.67
PV (L)	0.70	0.66	0.70	0.84
BV (L)	1.06	1.01	1.06	1.29
HR (beat/min)	222	214	248	256

Dog No.4

Body mass 14.00 kgs.

The contralateral control kidney mass 47.00 gm

The intrarenal infusion kidney mass 50.00 gm

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.55	0.64	0.44	0.41	0.66	0.96	0.64	0.82
ERFF (ml/min)	145.43	141.35	103.40	94.63	187.09	141.75	149.87	111.08
RBF (ml/min)	188.87	183.57	134.27	126.17	242.92	184.09	194.64	148.11
GFR (ml/min)	38.95	39.28	38.21	37.78	45.36	36.95	46.21	40.86
FF (%)	26.78	27.79	36.95	39.92	24.24	26.07	30.83	36.78
RVR (dyne-sec/cm ⁵)	41783.38	52283.05	71283.28	75859.61	32486.53	52135.37	49173.89	64622.29
Renal fraction (%)	9.99	9.38	9.99	7.33	12.85	9.41	12.85	8.56
U _{Na} V (uEq/min)	105.05	107.07	88.56	80.36	67.98	101.33	63.21	81.81
U _K V (uEq/min)	19.80	17.42	19.58	21.32	23.10	17.37	25.80	24.60
U _{Cl} V (uEq/min)	99.55	85.79	89.00	57.81	95.04	110.98	34.38	53.22
U _{Ca} V (mg %)	4.28	3.25	1.55	1.21	2.85	2.92	2.04	2.53
U _{Pi} V (mg %)	51.38	40.92	49.40	44.10	42.52	57.76	64.32	45.58
Excretion Na fraction K (%)	1.89	1.91	1.61	1.47	1.05	1.92	0.95	1.37
Cl	17.53	16.43	17.08	17.63	17.56	17.41	18.61	18.81
Ca	2.30	1.97	1.97	1.37	1.89	2.71	0.63	1.16
Pi	1.49	1.08	0.53	0.42	0.85	1.03	0.58	0.82
U/P osmolarity ratio	27.37	23.25	30.56	26.71	19.42	34.89	32.91	27.21
C _{Osm} (ml/min)	2.00	1.21	1.92	1.67	1.03	0.68	1.23	1.20
C _{H₂O} (ml/min)	1.10	0.78	0.85	0.68	0.68	0.66	0.79	0.98
U _{Osm} (mOsm/L)	- 0.55	- 0.14	- 0.41	- 0.27	- 0.02	0.31	- 0.15	- 0.16
	589.40	351.00	575.40	497.00	302.40	199.40	369.20	356.60

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	294.40	291.20	300.40	297.10
P _{Na} (mEq/L)	143.00	143.00	144.00	145.00
P _K (mEq/L)	2.90	2.70	3.00	3.20
P _{Cl} (mEq/L)	111.00	111.00	118.00	112.00
P _{Ca} (mg %)	7.36	7.65	7.63	7.58
P _{Pi} (mg %)	4.82	4.48	4.23	4.37
TPR (dyne-sec/cm ⁵)	4673.76	5492.76	5668.46	6192.06
CO (L/min)	1.89	1.95	1.89	1.73
PVC (%)	23	23	23	25
MAP (mmHg)	98.67	120.00	119.67	119.67
PV (L)	0.75	0.77	0.75	0.75
BV (L)	0.98	1.00	0.98	1.00
HR (beat/min)	179	164	183	183

Dog No.5

The contralateral control kidney mass 50.00 gm.

Body mass 15.00 kgs.

The intrarenal infusion kidney mass 52.00 gm.

Parameters	Contralateral control kidney				Intrarenal infusion kidney			
	Control	Control	Control	Control	Isotonic saline	Hypertonic saline	Isotonic saline	Hypotonic saline
V (ml/min)	0.47	0.44	0.49	0.75	0.71	0.65	0.68	0.78
ERPF (ml/min)	133.82	123.71	172.05	182.36	142.05	133.28	179.23	173.13
RBF (ml/min)	171.56	158.60	220.58	233.79	182.12	170.87	229.78	221.96
GFR (ml/min)	30.65	26.68	36.45	30.31	31.55	27.66	37.27	27.44
FF (%)	22.90	21.57	21.19	16.62	22.21	20.75	20.79	15.85
RVR (dyne-sec/cm ⁵)	66977.89	78330.98	55476.19	46867.96	63094.26	72706.11	53255.03	49365.92
Renal fraction (%)	6.27	4.85	6.27	7.69	6.65	5.22	6.65	7.29
U _{Na} V (uEq/min)	16.92	17.16	77.42	56.25	25.56	28.60	102.68	52.26
U _K V (uEq/min)	34.78	37.84	31.85	36.00	38.34	37.70	32.64	35.10
U _{Cl} V (uEq/min)	29.19	28.25	52.43	66.83	38.98	40.37	79.84	63.73
U _{Ca} V (mg%/min)	0.64	0.73	2.03	1.26	1.07	0.53	2.62	0.90
U _{Pi} V (mg%/min)	23.68	22.48	21.94	13.78	22.98	18.64	20.72	11.32
Excretion Na fraction K (%)	0.39	0.47	1.53	1.34	0.58	0.76	1.98	1.38
Cl	27.68	36.37	22.99	31.26	29.64	34.95	23.05	33.66
Ca	0.88	0.96	1.19	1.85	1.14	1.33	1.72	1.95
Pi	0.31	0.35	0.67	0.52	0.49	0.24	0.85	0.41
U/P osmolarity ratio	17.40	19.28	16.01	12.22	16.40	15.42	14.79	11.09
C _{Osm} (ml/min)	1.17	1.29	2.10	1.18	0.86	1.05	1.82	1.12
C _{H₂O} (ml/min)	0.55	0.57	1.03	0.88	0.61	0.68	1.24	0.88
U _{Osm} (mOsm/L)	- 0.08	- 0.13	- 0.54	- 0.13	0.10	- 0.03	- 0.56	- 0.10
	345.00	378.60	611.40	346.80	254.00	306.00	528.40	330.30

General Circulation

	Isotonic saline intrarenal infusion	Hypertonic saline intrarenal infusion	Isotonic saline intrarenal infusion	Hypotonic saline intrarenal infusion
P _{Osm} (mOsm/L)	293.80	294.60	290.90	294.20
P _{Na} (mEq/L)	140.00	136.00	139.00	138.00
P _K (mEq/L)	4.10	3.90	3.80	3.80
P _{Cl} (mEq/L)	108.00	110.00	120.00	119.00
P _{Ca} (mg %)	6.83	7.92	8.26	8.02
P _{Pi} (mg %)	4.44	4.37	3.76	3.72
TPR (dyne-sec/cm ⁵)	4198.35	3796.80	4470.90	3603.00
CO (L/min)	2.73	3.27	2.73	3.04
PCV (%)	22	22	22	22
MAP (mmHg)	143.67	155.33	153.00	137.00
PV (L)	1.58	1.43	1.58	1.45
BV (L)	2.03	1.84	2.03	1.87
HR (beat/min)	174	182	196	176

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