

evils. The person with the temperament best fitted for the tropics may be allowed to return, if urgently necessary, at an earlier period of convalescence, than the person of opposite constitution.

(To be continued.)

THE EXCRETION OF UREA IN NATIVES.

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The following quantitative analyses of urea were made from the urine of prisoners confined in the Jail at Mirzapore.

They were men in an ordinary state of health, and of average body weight. They were kept under close observation while the analyses were being made, and the amounts of urine, which were collected on consecutive days, can be considered as correct.

The abnormally large quantities which were passed by several of the cases was explained by their stating that they drank freely of water to allay the feeling of hunger which the prison diet failed to satisfy. Natives generally drink, under all circumstances, enormous quantities of water.

Any slight initial error made in estimating the percentage of urea in these large quantities of urine would, of course, be increased in the totals.

The apparatus used was that introduced by Russell and West.

Third class prison diet is stated to contain nitrogen 180 grains, carbon 3908.7 grains.

First class, 280 grains nitrogen, 5268.11 grains carbon.

The quality of the wheat, as regards the amount of nitrogen it contains, varies greatly. That in use in the Mirzapore Jail was of an inferior quality, yielding only 7 per cent. of gluten. The flour, as issued to the prisoners, contains a large percentage of bran, which may be rich in gluten, but its irritative and indigestible properties not only prevents the assimilation of the nitrogen which it contains, but possibly also interferes with the digestion of the gluten in the remainder of the food.

Prisoners on THIRD CLASS diet.

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	39	1010	194.99
	21	1025	231.10
	45	1010	217.77
	53	1013	256.52
	52	1010	251.72
Average amount of urea ...			230.42

Prisoners on THIRD CLASS diet—(contd.)

No.	Amount of urine in 25 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
2	60	1007	303.64
	51	1010	246.91
	67	1005	252.80
	Average amount of urea ...		
3	47	1010	221.96
	61	1006	114.16
	70	1005	223.35
	68	1005	179.40
Average amount of urea ...			184.72
4	132	1002	319.95
	156	1001	240.25
	131	1002	345.90
	152	1001	234.05
Average amount of urea ...			285.04
5	30	1020	287.21
	20	1019	167.24
	54	1011	285.20
	53	1009	239.01
Average amount of urea ...			244.66
6	51	1011	201.96
	75	1006	231.10
	64	1005	168.95
Average amount of urea ...			200.67
7	194	1002	215.02
	197	1002	303.49
	112	1002	221.80
Average amount of urea ...			246.77
8	34	1009	194.52
	33	1010	188.79
	43	1010	208.16
	58	1007	214.21
	64	1007	211.26
Average amount of urea ...			203.39
9	89	1005	274.19
	97	1005	256.06
	128	1003	253.42
Average amount of urea ...			261.22
10	19	1025	192.35
	35	1015	207.85
	22	1014	169.41
Average amount of urea ...			189.87
Average of 37 analyses, 231.45 grs. of urea.			



*Prisoners on FIRST CLASS diet.*

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	23	1014	192.35
	96	1005	295.74
	83	1005	182.90
	102	1004	181.97
Average amount of urea ...			213.24
2	38	1020	275.90
	22	1024	245.80
	42	1011	249.55
	32	1012	218.24
Average amount of urea ...			247.37
3	27	1021	209.40
	26	1016	165.07
	37	1012	228.00
	33	1016	257.76
	21	1021	243.97
	32	1012	211.26
Average amount of urea ...			219.24
4	36	1012	277.29
	42	1007	231.14
	51	1009	269.39
Average amount of urea ...			259.27
5	71	1010	312.48
	84	1005	332.60
	94	1004	289.23
	112	1007	308.14
	146	1005	353.40
	154	1006	406.72
	128	1006	394.32
	104	1004	366.11
	58	1012	382.85
	76	1010	334.49
	95	1007	293.41
Average amount of urea ..			343.07
Average of 28 analyses, 256.44 urea.			

The urine in the following analyses was taken from four men in ordinary health and of average weight. Observations had previously been made to ascertain the amount of urine they were in the habit of passing. They were kept under close observation the whole time.

DIET No. I.  
12 chittacks Rice.  
6 " Spinach.  
100 grains Salt.  
Water in unlimited quantity.

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	128	1003	183.05
	119	1004	209.41
Average amount of urea ...			196.23

## DIET No. I.—(Contd.)

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
2	129	1001	214.05
	132	1001	185.84
Average amount of urea ...			199.94
3	160	1001	211.26
	155	1003	193.60
Average amount of urea ...			202.43
4	114	1004	200.70
	170	1004	187.08
Average amount of urea ...			193.89
Average of 8 analyses, 198.12 urea.			

## DIET No. II.

12 chittacks Rice.  
6 " Dall.  
100 grains Salt.  
Water in unlimited quantity.

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	112	1002	234.05
	135	1007	267.37
	113	1008	261.02
Average amount of urea ...			254.14
2	101	1006	255.59
	147	1007	323.38
	125	1007	275.12
Average amount of urea ...			284.73
3	98	1007	258.69
	175	1005	307.84
	126	1006	305.04
Average amount of urea ...			290.52
4	97	1003	255.96
	152	1006	284.27
	129	1005	269.70
Average amount of urea ...			269.97
Average of 12 analyses, 274.84 urea.			



DIET No. III.  
12 chittacks Rice.  
6 " Dall.  
100 grains Salt.  
80 ounces Water.

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	68	1006	193.59
	95	1010	250.79
	98	1010	258.69
	109	1010	263.81
	95	1010	229.86
Average amount of urea ...			239.35
2	156	1008	377.58
	81	1010	213.90
	87	1012	245.52
	94	1011	227.54
	80	1012	227.61
Average amount of urea ...			258.43
3	141	1009	279.15
	79	1011	225.99
	90	1011	257.45
	92	1012	253.11
	85	1012	261.79
Average amount of urea ...			255.49
4	109	1009	239.78
	84	1010	267.99
	101	1006	233.27
	69	1010	212.53
	108	1009	285.20
Average amount of urea ...			247.75
Average of 20 analyses, 250.25 urea.			

DIET No. IV.  
12 chittacks Rice.  
6 " Dall.  
100 grains Salt.  
80 ounces Water.  
2 " Country spirits.

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	88	1011	232.14
	124	1009	218.24
	118	1007	285.66
Average amount of urea ...			245.34
2	78	1012	240.25
	101	1010	244.43
	98	1010	248.00
Average amount of urea ...			244.22
3	110	1010	278.38
	106	1010	256.52
	132	1009	319.45
Average amount of urea ...			284.78

DIET No. IV.—(contd.)

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
4	68	1013	224.44
	128	1006	225.37
	102	1008	271.04
Average amount of urea ...			239.61
Average of 12 analyses, 253.48.			

DIET No. V.  
3 chittacks Wheat Flour.  
7 " Barley "  
6 " Spinach. "  
100 grains Salt.  
Water in unlimited quantity.  
On afternoon of second day, one lb of lean meat was given in addition to the above.

No.	Amount of urine in 24 hours, in ounces.	Specific gravity of urine.	Amount of urea in grains.
1	206	1002	248.06
	196	1002.5	172.50
	100	1006	360.84
	96	1005	306.28
	64	1008	183.05
	144	1002.5	269.39
2	164	1003.5	234.51
	204	1003	246.91
	96	1007	295.74
	141	1003	356.81
	88	1004	212.97
	112	1002	197.16
3	178	1002.5	274.19
	170	1003	205.68
	90	1008	336.66
	144	1005	332.78
	122	1003	228.16
	149	1003	295.12
4	136	1003	179.49
	168	1002	203.36
	80	1006	316.20
	112	1004	234.05
	96	1003	211.26
	106	1003	209.87

A FURTHER SERIES OF 42 CASES OF LITHOLAPAXY.

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In the December number of the *Indian Medical Gazette* of 1882, in the February number of 1883, and in the March number of 1884, three papers by Surgeon P. J. Freyer were published, in which full details of seventy-six cases of litholapaxy performed by him up to the end of 1883 were given. The following