Results

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Demographic and clinical characteristics:

This study was carried out on 75 patients admitted in the urology department in Benha University Hospital together with 15 apparently healthy control subjects: -

Group I:

Included 60 patients with newly diagnosed squamous cell carcinoma of the bladder who were diagnosed by histopathology following cystoscopic biopsy of the tumor. They were 49 males (81.67%) and 11 females (18.33%) with age ranging from 39-82 years with a mean of 63.38 ± 10.43 .

Group II:

Included 15 patients with other benign urological conditions (5 cases of urinary tract infection, 3 cases of benign prostatic hyperplasia, 3 cases of stone bladder, 2 cases of stone ureter, one case of stress urinary incontinence and one case of impotence). They were 9 males (60%) and 6 females (40%) with age ranging from 38 - 72 years with a mean of 61.26 \pm 8.89.

Group III:

Included 15 apparently healthy individuals matched in age and sex with the patients groups and they were clinically free from any urological disease. They were 9 males (60%) and 6 females (40%) with age ranging from 39-74 years with a mean of 60.33 ± 9.55 .

Table (3) Age of patients among the groups under the study.

Group	Range (years)	Mean ± SD
Gro up I (n = 60)	39 – 82	63.38 ± 10.43
Group II (n = 15)	38 – 72	61.26 ± 8.89
Group III (n = 15)	39 – 74	60.33 ± 9.55

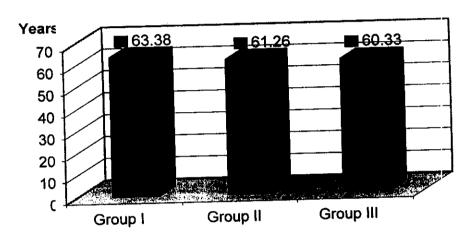


Fig. (1): Mean age of patients in the groups under study.

Table (4): Comparison of ages between the different studied groups.

Group	Z value	P value
Group I & group II	1.216	>0.05*
Group I & group III	1.369	>0.05*
Group II & group III	1.112	>0.05*

^{*}No significant difference was encountered in age between each two of the 3 groups.

Table (5): Comparison of ages between the different grades of the tumors in the studied group I.

Item	Grade I (n = 28)	Grade II (n = 18)	Grade III (n = 14)	P value
Mean ± SD	61.82 ± 9.83	66.61 ± 9.82	62.35 ± 12.08	>0.05*

*No significant difference was encountered in age between the different grades of the tumors in the studied group I.

Table (6): Comparison of ages between the superficial and invasive stages of the tumors in the studied group I.

Item	Superficial stages (n = 36)	Invasive stages (n = 24)	P value
Mean ± SD	64.13 ± 9.89	62.25 ± 11.3	>0.05*

*No significant difference was encountered in age between the superficial and invasive stages of the tumors in the studied group I.

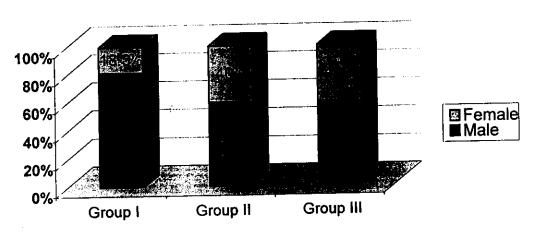


Fig. (2): Sex distribution among studied groups.

Table (7): Urinary creatinine of patients among the studied groups.

Group	Range (mg/dl)	Mean ± SD
Group I	78 – 174	115.05 ± 21.5
Group II	98 – 168	121.46 ± 20.18
Group III	98 – 142	131.86 ± 13.6

Table (8): Comparison of urinary creatinine between the different studied groups.

Group	Z value	P value
Group I & group II	-1.119	>0.05*
Group I & group III	-3.331	<0.001**
Grc up II & group III	-1.659	<0.05***

*No sign ficant difference was encountered in urinary creatinine between group I and group II.

**High significant decrease was encountered in urinary creatinine in group I when compared to group III.

***Significant decrease was encountered in urinary creatinine in group II when compared to group III.

The descriptive statistics of NMP22, urinary bladder cancer antigen (UBC) with and without correction by urinary creatinine (expressed by the median, the range, the mean and SD) and urine RBCs among the studied groups are presented in **Tables (9, 13, 15) and Figures (3, 4, 5, 6, 7)**.

Table (9): Descriptive statistics of NMP22, UBC (both with and without correction by urinary creatinine) and urine RBCs among studied groups.

Variant		GROUP I NO.=60	GROUP II NO.=15	GROUP III NO.=15
	Median	120.9	4.8	2.4
T	Range	2.1-196.9	1.4-60	0.7-24
NMP22 U/ml	Mean	103.2	11.9	4
	SD	69.9	16	5.7
	Median	123.7	3.2	1.8
NMP22	Range	1.5-193.3	1.0-52.6	0.5-16.6
U/mg. creatinine	Mean	94.1	9.6	2.9
O/mg. creatinine	SD	65.8	14.	3.9
	Median	120.2	3.2	2.5
	Range	3.5-194.2	2.3-50.8	0.8-17
UBC μg/l	Mean	104.9	10.2	3.5
	SD	60.6	15.3	3.9
	Median	105.4	2.3	2
UBC	Range	2.8-220.6	0.6-36.3	0.6-10.7
μg/gm. creatinine	Mean	95.2	7.2	2.6
μg/gin. cr-satinine	SD	60.3	10.3	2.5
Urine RBCs	10 RBC/μl OR more	65%	40%	0%

Table (10): Comparison of NMP22 and UBC (with and without correction by urinary creatinine) between group I and group II.

Variant	Group I Mean ± SD	Group II Mean ± SD	P value
NMP22 U/ml	103.2 ± 69.9	11.9 ± 16	<0.001*
NMP22 U/mg. creatinine	94.1 ± 65.8	9.6 ± 14	<0.001*
UBC μg/l	104.9 ± 60.6	10.2 ± 15.3	<0.001*
UBC μg/gm. creatinine	95.2 ± 60.3	7.2 ± 10.3	<0.001*

^{*}High significant increase was encountered in both NMP22 & UBC (with and without correction) in group I when compared to group II.

Table (11): Comparison of NMP22 and UBC (with and without correction by urinary creatinine) between group I and group III.

Variant	Group I Mean ± SD	Group III Mean ± SD	P value
NMP22 U/ml	103.2 ± 69.9	4 ± 5.7	<0.001*
NMP22 U/mg. creatinine	94.1 ± 65.8	2.9 ± 3.9	<0.001*
UBC μg/l	104.9 ± 60.6	3.5 ± 3.9	<0.001*
UBC μg/gm. creatinine	95.2 ± 60.3	2.6 ± 2.5	<0.001*

^{*}High significant increase was encountered in both NMP22 & UBC (with and without correction) in group I when compared to group III.

Table (12): Comparison of NMP22 and UBC (with and without correction by urinary creatinine) between group II and group III.

Variant	Group II Mean ± SD	Group III Mean ± SD	P value
NMP22 U/ml	11.9 ± 16	4 ± 5.7	<0.05*
NMP22 U/mg. creatinine	9.6 ± 14	2.9 ± 3.9	<0.05*
UBC μg/l	10.2 ± 15.3	3.5 ± 3.9	<0.05*
UBC μg/gm. creatinine	7.2 ± 10.3	2.6 ± 2.5	>0.05**

*Significant increase was encountered in NMP22 (with and without correction) and UBC (without correction) in group II when compared to group III.

**No significant difference was encountered in UBC (after correction) between group II & group III.

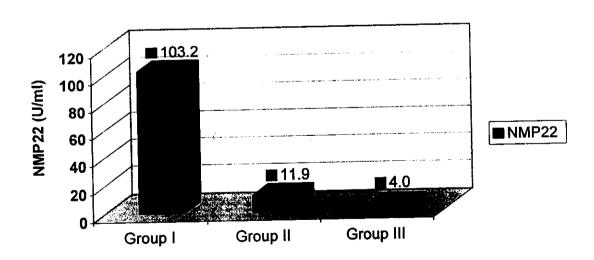


Fig. (3): NMP22 mean values among the studied groups.

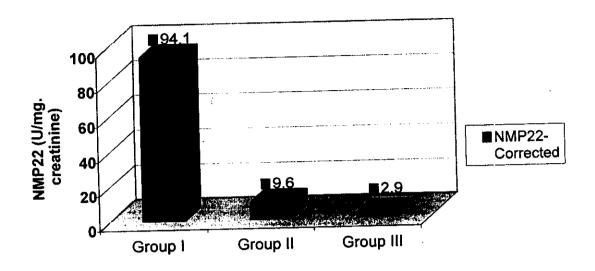


Fig. (4): NMP22 mean values after correction with urinary creatinine among the studied groups.

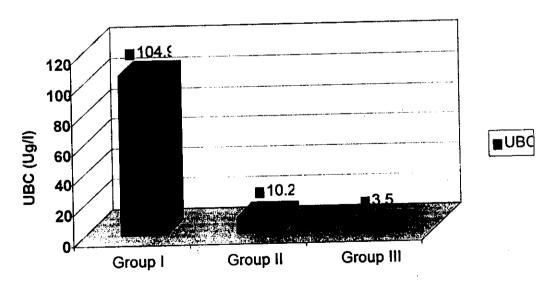


Fig. (5): UBC mean values among the studied groups.

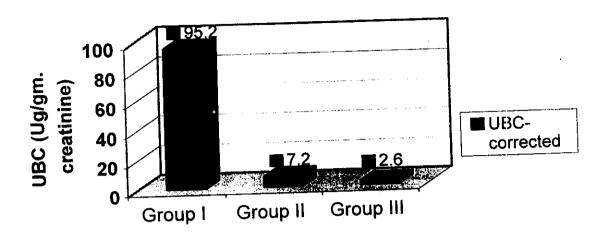


Fig. (6): UBC mean values after correction with urinary creatinine among the studied groups.

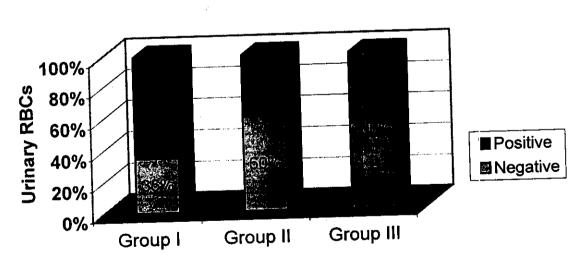


Fig. (7): Urine erythrocyte distribution among studied groups.

Table (13): Descriptive statistics of NMP22 and UBC (with and without correction) among different grades of the tumors in the studied group I.

VARIANT		GRADE I NO.=28	GRADE II NO.=18	GRADE III NO.=14
T	Median	131	116.5	128.35
-	Range	2.6-196.9	2.1-186.4	2.5-192.4
NMP22 U/ml	Mean	103.49	95.88	112.1
ŀ	SD	74.39	69.49	64.96
	Median	123	124.6	125.6
		2.9-181.5	1.7-193.3	1.5-182
NMP22 U/mg. creatinine	Range	90.7	93.87	101.31
	Mean SD	64.86	70.75	65.64
	Median	119.3	124.2	119.8
•		4.0-194.2	3.5-184.6	4.0-154
UBC μg/l	Range	101.97	108.07	106.72
	Mean SD	67.03	61.31	49.15
		103.1	119.75	95.45
	Median	4.1-220.6	3.3-213.8	2.8-168
UBC	Range	91.5	103.35	92.16
μg/gm. creatinine	Mean SD	65.3	63.24	47.78

Table (14): Comparison of NMP22 & UBC (with and without correction by urinary creatinine) among different grades of the tumors in studied group I.

NMP22 U/mg. NMP22 U/ml UBC µg/gm. creatinine correction) between the different grades of the tumors in studied group I. *No significant difference was encountered in NMP22 & UBC (with and without UBC µg/l creatinine Item 103.49 ± 74.39 101.97 ± 67.03 Mean ± SD 90.7 ± 64.8 Grade I 91.5 ± 65.3 95.88 ± 69.49 93.87 ± 70.75 Mean ± SD 108.07 ± 61.31 103.35 ± 63.24 Grade II 101.31 ± 65.64 112.1 ± 64.96 106.72 ± 49.15 Mean ± SD 92.16 ± 47.78 Grade III P value >0.05* >0.05* >0.05* >0.05*

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Table (15): Descriptive statistics of NMP22 and UBC (with and without correction by urinary creatinine) among superficial & invasive stages of the tumors in the studied group I.

VARIANT		SUPERFICIAL NO.=36	INVASIVE NO.=24
	Median	120.4	141.4
Ţ	Range	2.1-196.9	2.5-192.4
NMP22 U/ml	Mean	94.05	116.96
Ţ	SD	72.29	65.27
	Median	117.9	127.75
NMP22	Range	1.7-193.3	1.5-182
U/mg. creatinine	Mean	86.66	105.32
	SD	68.12	61.88
	Median	117.25	121.6
<u> </u>	Range	3.5-192.6	6.2-194.2
UBC μg/l	Mean	99.26	113.38
	SD	64.42	54.7?
	Median	102.2	112.25
UBC	Range	2.8-213.8	5.0-220.6
μg/gm. creatinine	Mean	89.19	104.38
μ ₀ <u>6</u> σ. σ.σ	SD	60.73	59.7

Table (16): Comparison of NMP22 & UBC (with and without correction by urinary creatinine) among superficial & invasive stages of the tumors in the studied group I.

Variant	Superficial Mean ± SD	Invasive Mean ± SD	P value
NMP22 U/ml	94.05 ± 72.29	116.96 ± 65.27	>0.05*
NMP22 L/mg. creatinine	86.66 ± 68.12	105.32 ± 61.88	>0.05*
U3C μg/l	99.26 ± 64.42	113.38 ± 54.77	>0.05*
UBC μg/gm. creatinine	89.19 ± 60.73	104.38 ± 59.7	>0.05*

*No significant difference was encountered in NMP22 & UBC (both with and without correction) between superficial and invasive stages of the tumors in studied group I.

By using the Receiver Operator Characteristic curve (ROC curve) it was found that:

- At a cutoff value of 7.0 U/ml for NMP22, maximum sensitivity (76.67%) and specificity (80%) was observed differentiating between cases of squamous cell carcinoma of the bladder (group I) and other non malignant cases (group II & group III).
- At a cutoff value of 7.5 μg/l for UBC, maximum sensitivity (85%) and specificity (86.67%) was observed differentiating between cases of squamous cell carcinoma of the bladder (group I) and other non malignant cases (group II & group III).

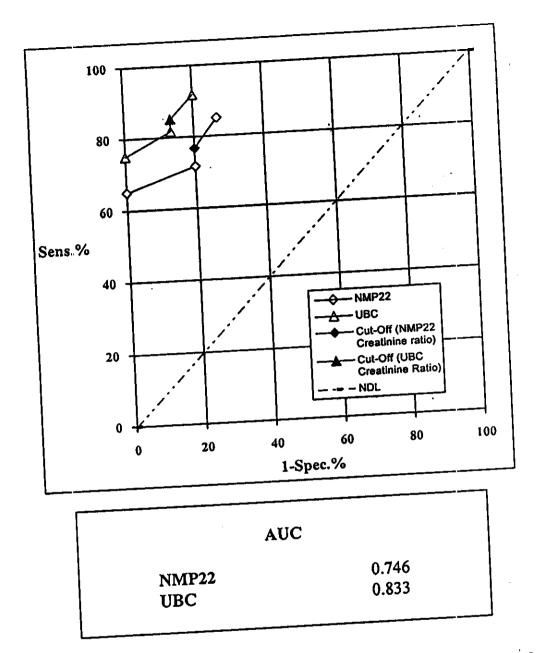


Fig. (8): ROC curve for NMP22 and UBC for all subjects under the study with best cutoff values of 7.0 U/ml for NMP22 and 7.5 μ g/l for UBC.

- At a cutoff value of 5 U/mg. creatinine for corrected NMP22, maximum sensitivity (83.33%) and specificity (83.33%) was observed differentiating between cases of squamous cell carcinoma of the bladder (group I) and other non malignant cases (group II & group III).
- At a cutoff value of 6 μg/gm. creatinine for corrected UBC, maximum sensitivity (85%) and specificity (86.67%) was observed differentiating between cases of squamous cell carcinoma of the bladder (group I) and other non malignant cases (group II & group III).

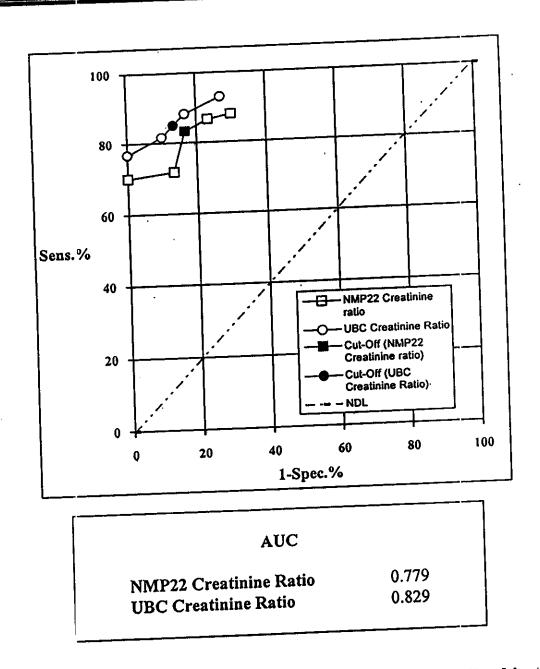


Fig. (9): ROC curve for corrected NMP22 and UBC for all subjects under the study with best cutoff values of 5.0 U/mg. creatinine for corrected NMP22 and 6.0 μ g/gm. creatinine for corrected UBC.

with total accuracy of NMP22 and UBC (with and without correction by urinary creatinine). Table (17): Overall sensitivity, specificity, positive and negative predictive values together

					creatinine	CREATIVINE
85.56	74.29	92.73	86.67	 85	6 μg/gm.	UBC/
			-			
0).	74.29	92.73	86.67	85	7.5 µg/1	UBC
05 56			:		Cleaning	CREATININE
		_		(arestinine	
83.33	71.43	90.91	83.33	83.33	5 .0 U/mg.	NMP22 /
//./0	63.16	88.46	80	76.67	7.0 U/ml	NMP22
77 78						
Accuracy	-Ve P.V.	+Ve P.V.	Specificity	Sensitivity	Cutoff	METI
%	%	%	%	•		

Table (18): Differential diagnostic properties of a combination of NMP22 and UBC (with and without correction by urinary creatinine).

				,	n/
METI	% Sensitivity	% % % Sensitivity Specificity +Ve P.V.	% +Ve P.V.	-Ve P.V. Accuracy	Accuracy
NMP22 + UBC	88.3	86.7	92.9	78.8	87.8
NMP22 - C. + UBC - C.	95.0	83.3	91.9	89.3	91.1

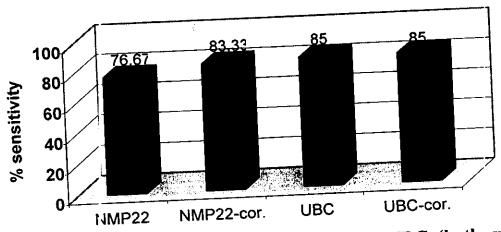


Fig. (10): Overall sensitivity of NMP22 and UBC (both with and without correction by urinary creatinine) in malignant cases.

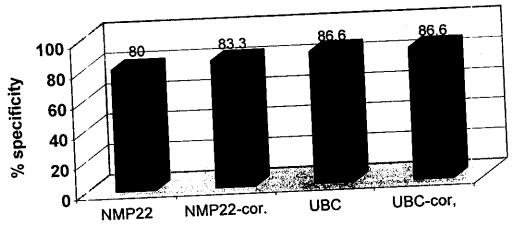


Fig. (11): Overall specificity of NMP22 and UBC (both with and without correction by urinary creatinine) in non-malignant cases.

Table (19): Correlation coefficient among age, urinary creatinine, NMP22, UBC, NMP22- C (corrected), UBC-C (corrected) and each other in studied group I.

Age	U. Creat.	NMP22	UBC	NMP22- C	UBC- C
1.0000					
-0.5133	1.0000				
0.2159	-0.0472	1.0000			
0.5225	-0.0860	0.3191	1.0000		
-0.8282	0.1365	-0.1044	-0.1096	1.0000	
0.1378	-0.0099	0.0354	-0.0879	0.3726	1.0000
	1.0000 -0.5133 0.2159 0.5225 -0.8282	1.0000 -0.5133 1.0000 0.2159 -0.0472 0.5225 -0.0860 -0.8282 0.1365	1.0000 -0.5133 1.0000 -0.5133 1.0000 -0.5225 -0.0860 0.3191 -0.8282 0.1365 -0.1044	1.0000 1.0000 -0.5133 1.0000 0.2159 -0.0472 1.0000 0.5225 -0.0860 0.3191 1.0000 -0.8282 0.1365 -0.1044 -0.1096	Age U. Cleat. INNI 22 1.0000 -0.5133 1.0000 0.2159 -0.0472 1.0000 0.5225 -0.0860 0.3191 1.0000 -0.8282 0.1365 -0.1044 -0.1096 1.0000 0.0870 0.3726

Critical Value (1 - Tail, 0.05) = + or -0.21453.

Table (20): Correlation coefficient among age, urinary creatinine, NMP22, UBC, NMP22- C (corrected), UBC-C (corrected) and each other in studied group II.

		T1 0 .4	NMP22	UBC	NMP22- C	UBC- C
	Age	U. Creat.	INIVIP 22	L		
Age	1.0000					
U. Creat.	-0.4575	1.0000				
NMP22	0.1584	0.1918	1.0000			
UBC	-0.0620	-0.0573	0.3369	1.0000		
NMP22-C	-0.2541	0.1032	0.0008	-0.3541	1.0000	
UBC- C	0.0793	-0.1122	-0.0267	-0.0586	0.4202	1.0000

Critical Value (1 - Tail, 0.05) = + or -0.44218.

Table (21): Correlation coefficient among age, urinary creatinine, NMP22, UBC, NMP22- C (corrected), UBC-C (corrected) and each other in studied group III.

				LIDC	NMP22- C	UBC- C
	Age	U. Creat.	NMP22	UBC	INIVIT 22- C	
Age	1.0000					
U. Creat.	-0.1924	1.0000				
NMP22	-0.0491	-0.2298	1.0000			<u> </u>
UBC	-0.1212	0.0599	-0.0547	1.0000		
NMP22-C	0.0893	0.2692	-0.2612	-0.3037	1.0000	
UBC- C	0.3781	0.0645	-0.1277	-0.2428	0.7067	1.0000
OBC-C	J.J	<u> </u>		1		

Critical Value (1 - Tail, 0.05) = + or -0.44218.

From the previous 3 tables we found that:

- There was positive significant correlation between NMP22 and UBC (both before and after correction by urinary creatizine) among patients in group I.
- There was positive non-significant correlation between NMP22 and UBC (both before and after correction by urinary creatinine) among patients in group II.
- There was negative non-significant correlation between NMP22 and UBC (both before and after correction by urinary creatinine) among healthy subjects in group III.

Master sheet for the cases of squamous cell carcinoma of the bladder in group I.

.•	_			T		T	T	T	_	T	T	\neg	_		_									T	T			T	7)		2 .	
Microsc.	RBCs	100	2	30	36		CI		7	5	7	2	2	2	2	20	8	35	15	15	100	15	15	1	7 <	+ -		- ,	7	201	22		
UBC-C.	ug/gm. creat.	96.1	2000	100		116.9	7.4	111.3	133.3	84.3	5	161	90.3	136.5	31.1	104.4	130	129.6	69.06	28	110.2	37.8	071	100	5	-		63.5		213.8	_		5.8
TIRC	/gn	1162	110.5	194.2	140	114.6	8.5	131.4	160	92.8	6.5	146.6	112	1652	8 90	1546	1196	1200	120.7	120	1	120.4	44.3	154.6	6.2	136.9	120.4	108.6	84.3	166.8	172	184.6	4.7
O COUNTY	NIME 22- C.	U/mg. creat.	139.3	2.9	įŷ,	123.8	164	123.3	123.6	123.8	6.5	135.6	135.6	2.0.5	4.7	01.4	165.7	133.6	8.7/1	127.4	3.2	143.1	144.1	128.1	2.4	152	132.6	128.9	1.5	149.7	145.3	69.1	2.8
	NMP22	U/ml	168.6	2.6	86	1714	187	175 5	140.7	176.7	130.2	× ;	114.3	108.2	9	7	120.5	142.8	174.6	168.2	4.5	144.6	168.7	117.9	-	149	1884	1676	250	1168	1483	78.8	3,5
- 	U. creat.	mg/dl	121	88	140	2 02	70	114	118	071	110	128	91	124	121	98	148	92	101	132	140	101	117	8	124	771	143	130	150	100	100	102	
	3	Stage	11	1	- -		- a	1.1	II	T2	T1	Ta	T2	Ta	T1	T1	T1	T2	T11	122	T.1	100	12		71	71	- {	7		71		∃ [TT
	,	Grade	-	11	- +					11	III	-	I	1				III						→ ;		- ∤; ∤							
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Master sheet for the cases of squamous cell carcinoma of the bladder in group I (cont.).

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Microsc.	RBCs	2	100	4		07	15	20	5	100	15	2	15	5	100	100	2	100	15	7	100	20	15	3	25	100	15	20	2	5	20	35		
UBC- C.	ug/gm. creat.	26	107.2	107.5		113.7	117.3	188.3	143.7	66	126.9	139.1	168.9	106.5	39.2	147.6	3.4	120.3	25.3	3.3	107.4	58	7.7	200.3	142	-	-	-	-	6.5	+	-		
UBC	1/6/1	26.8	1160	110.7		134.2	91.5	180.8	192.6	122.8	153.6	128	170.6	114	8.99	168.3	4.3	140.8	24.8	35	118.2	78.9	84	1763	1506	84	1706	7	1347	2.54	0001	138	251	
NMD22-C	Il/mg orest	U/IIIg. Cl cat.	C.101	63	10801	1263	182	146.6	2000	141	141	164.4	147.5	2.8	683	166.4	17	1503	1007	1.77.1	808	93.8	0.00	2.02	101 5	101.5	13.5	3.0	1/.0	113.1	4.0	1/1.1	27.0	
COUNTRY	NIMITE	O/mr	166.4	68.7	1549	1/01	147.1	147	140.8	×	1/4.9		170	147	116.7	190.6	189.0	1.70	180.4	120.3	0.0	90.9	114	9	140.6	192.4	13.2	4	20.8	196.9	9	188.3	98.8	
	U. creat.	mg/di	103	100	00	212	118	78	96	134	124	121	25/5	101	/0I	1.70	114	124	117	86	104	110	136	108	88	106	66	110	118	174	110	110	165	
1	Ctodo	Stage	11	1.3	į	11	T:1	T2	T2	T.1	T3	T1	72	II	F	T3	T2	Ta	T2	T1	TI	T	T3	T2	T1	T3	[T1	T2	T1	E	TI	T72	-
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		Sex		Male	iviaiv	Male	Male	Female	Male	Male	Male	Male	Male	Male	Male	Male	Male	Female	Male	Male	Male	Female	Male	Female	Male	Female	Male	Male	Male	Mole	Mole	Male	Mala	Male
	Age	30 5	(X)	65	00	09	159	32	12	100	2 3	3 5	2/8/2	12	29	44	49	109	200	2 2	2/3	3 8	35	3 %	5 5	89	000	200	5 9	37	4 6	25		80
		**		31	3.2	33	3/2	100	35	00 5	20,	000	40	41	7	2 5	5	F Y	£ 24	04	404	\$ \$	7 5	2		75	3 3	4	3	00	2	82	23	09

Master sheet for other benign urological conditions (group II)

Microsc.	Pus cells	30	25		100	20	4		7		20		7	12		, ;	20	4	2	-	-
N. Minnon		10	c	,	3	2	15	2	15	2	10		9	3	1	2	2	1	9	, ;	20
	UBC- C.	ng/gm_Creat	0,0	30.3	3.6	1.9		2.3	2	1.8	756	73.0	18	9.0		5.7	2.7	2	-	C.4	2.3
	UBC	7.3	2:3	41.4	4.7	10		3.2	2.4	3		20.8	20.4	0,0	7	7.1	2.8	"	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4.4	3.2
	NMP22- C.	ug/mg_Creat	1.3	52.6	22.1		4.4	1.8	3.4	-	-	20.1	2.8		1.9	3.2	19.61		3.5	3	7
	NMP22	Il/ml	1.4	09	7 00	7.07	4.8	2.5		F '	1.8	26.2	3.2	3.5	5.5	4	700	50.4	4.8	3	
		U. Creatin.	108	114	F11	128	86	140		110	168	130		113	86	125		104	145	86	-
		Pathology	ITU	, this	011	UTI	UTI		Stress urmany	Stone ureter	Impotence	Andri A	011	Stone bladder	ВРН		Stone bladder	ВРН	BPH	Cons bladder	Stolic olace
		Sex	Male		Male	Female	Male		Female	Male	Male		Female	Female	Male	MINI	Female	Male	Male		Female
	-	Age	3 5	5	89	09	5	-	3%	69	3	;	99	19	5	6	45	62	99	-}-	89
	-	**	+-	-	7	3	-	+	5	9	,		0 0	6] :	3 \		12	2	<u> </u>	14

Master sheet for apparently healthy subjects (group III)

 		- [- 	
Microsc. Pus cells	7	-1	3	4	0	2		2	_	2	2	(U	_	2	5
Microsc. RBCs	0		0	2	2	0	2	0	1	2	2	4	-	0	2
UBC- C. ug/gm. creat.	6.0	1.1	3.2	1.6	2.9	1.3	2.9	2.0	10.7	9.0	6.0	4. i	4.5	0.7	2.0
UBC Ug/l	1.4	1.6	3.5	2.1	4.2	1.8	3.6	2.8	17	8.0	1.2	4.6	5.2	1.0	2.5
NMP22- C. ug/mg. creat.	1.4	6.0	1.3	0.5	16.6	2.5	3.8	4.9	1.0	1.9	1.8	2.9	3.6	0.5	1:1
NMP22 U/ml	2.1	1.3	1.5	0.7	24	3.4	4.8	6.8	1.6	2.5	2.4	3.3	4.1	0.8	1.4
U. Creatin. mg/dl	148	136	110	130	144	135	124	138	158	129	134	112	114	142	124
Sex	Male	Male	Male	Male	Female	Female	Male	Female	Female	Male	Female	Male	Male	Male	Female
Age	19	46	57	74	71	29	59	89	79	3,5	9	39	56	54	8
#	-	, ,	۳ ر	4	5	9	7	~	, 0	\ <u>c</u>	=	12	13	4	15