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Supplementary table 1: Demographic and clinical characteristics of women aged 50-70 years with macroscopic hematuria across four subgroups. AHG (acute hemorrhagic cystitis group) subgroups: 1: acute irritative symptoms with positive laboratory results, 2: acute irritative symptoms with negative or missing laboratory results, and non-AHG (non-acute hemorrhagic cystitis group) subgroups: 3: asymptomatic hematuria, and 4: complex hematuria.

The table represents the number of patients (% of the row) if not otherwise indicated. (AHG: acute hemorrhagic cystitis group, IQR: interquartile range, non-AHG: non-acute hemorrhagic cystitis group, Cis: carcinoma in situ, TNM: tumor, node, metastasis, UTUC: upper tracts urothelial carcinoma).

Variable name		AHG		Non-AHG	
		Subgroup 1	Subgroup 2*	Subgroup 3	Subgroup 4
No. patients	% of the row	304 (47)	125 (19)	154 (24)	69 (10)
Age (years)	Median (IQR)	59 (54-64)	60 (55-64)	61 (56-66)	61 (55-66)
Smoking**	Never smoker	164 (55)	60 (49)	65 (43)	34 (50)
	Current or former smoker	136 (45)	62 (51)	87 (57)	34 (50)
Radiotherapy	Yes	3 (1)	4 (3)	6 (4)	4 (6)
Cystoscopy results	Not done	1 (0.5)	2 (2)	0 (0)	0 (0)
	Normal findings	200 (66)	80 (64)	120 (78)	37 (54)
	Other benign findings	101 (33)	43 (34)	18 (12)	29 (42)
	Papillomatous lesions	2 (0.5)	0 (0)	16 (10)	3 (4)
Investigation results***	No uro-malignancy	299 (98.4)	125 (100)	137 (89)	64 (93)
	urinary bladder cancer	2 (0.6)	0 (0)	16 (10)	4 (6)
	UTUC	0 (0)	0 (0)	1 (1)	1 (1)
	Kidney cancer	3 (1)	0 (0)	0 (0)	0 (0)
Tumor stage of urinary bladder cancer	TaG1-2	2 (100)	0 (0)	9 (56)	1 (25)
	TaG3 – Cis – T1	0 (0)	0 (0)	4 (25)	1 (25)

	T2+	0 (0)	0 (0)	3 (19)	2 (50)
Tumor stage of UTUC	TaG1-2	0 (0)	0 (0)	0 (0)	1 (100)
	TaG3 – Cis – T1	0 (0)	0 (0)	1 (100)	0 (0)
Tumor stage of kidney cancer	T1-2	2 (67)	0 (0)	0 (0)	0 (0)
	Not biopsied****	1 (33)	0 (0)	0 (0)	0 (0)
Number of urinary bladder cancer lesions	solitary	2 (100)	0 (0)	11 (69)	3 (75)
Tumor size (cm)	≤ 3 cm	2 (100)	0 (0)	12 (75)	3 (75)

* Patients with missing results n= 75 and with negative laboratory results n=50.

** Patients with missing results n= 10

*** After both cystoscopy and computed tomography urography

**** Under active surveillance

Supplementary table 2: Demographic and clinical characteristics of women over 70 years with macroscopic hematuria across four subgroups. AHG (acute hemorrhagic cystitis group) subgroups: 1: acute irritative symptoms with positive laboratory results, 2: acute irritative symptoms with negative or missing laboratory results, and non-AHG (non-acute hemorrhagic cystitis group) subgroups: 3: asymptomatic hematuria, and 4: complex hematuria.

The table represents the number of patients (% of the row) if not otherwise indicated. (AHG: acute hemorrhagic cystitis group, IQR: interquartile range, non-AHG: non-acute hemorrhagic cystitis group, Cis: carcinoma in situ, TNM: tumor, node, metastasis, UTUC: upper tracts urothelial carcinoma).

Variable name		AHG		Non-AHG	
		Subgroup 1	Subgroup 2*	Subgroup 3	Subgroup 4
No. patients	% of the row	142 (33)	54 (13)	173 (40)	58 (14)
Age (years)	Median (IQR)	75 (73-80)	78 (74-83)	80 (76-83)	78 (75-83)
Smoking**	Never smoker	70 (50)	37 (69)	118 (71)	39 (68)
	Current or former smoker	69 (50)	17 (31)	49 (29)	18 (38)
Radiotherapy	Yes	5 (3)	3 (6)	6 (4)	1(2)
Cystoscopy results	Not done	3 (2)	2 (4)	1 (1)	0 (0)
	Normal findings	76 (54)	32 (59)	99 (57)	31 (53)
	Other benign findings	60 (42)	20 (37)	46 (27)	23 (40)
	Papillomatous lesions	3 (2)	0 (0)	27 (15)	4 (7)
Investigation results***	No uro-malignancy	138 (97)	53 (98)	141 (82)	51 (88)
	Urinary bladder cancer	3 (2)	0 (0)	24 (14)	4 (7)
	UTUC	0 (0)	0 (0)	6 (3)	1 (2)
	kidney cancer	1 (1)	1 (2)	2 (1)	2 (3)
Tumor stage of urinary bladder cancer	TaG1-2	1 (33)	0 (0)	11 (46)	1 (25)
	TaG3 – Cis – T1	0 (0)	0 (0)	9 (37)	0 (0)
	T2+	2 (67)	0 (0)	4 (17)	3 (75)

Tumor stage of UTUC	TaG1-2	0 (0)	0 (0)	0 (0)	1 (100)
	TaG3 – Cis – T1	0 (0)	0 (0)	1 (17)	0 (0)
	T2+	0 (0)	0 (0)	5 (83)	0 (0)
Tumor stage of kidney cancer	T1-2	0 (0)	1 (100)	0 (0)	1 (50)
	T3+	1 (100)	0 (0)	1 (50)	0 (0)
	Not biopsied****	0 (0)	0 (0)	1 (50)	1 (50)
Number of urinary bladder cancer lesions	solitary	3 (100)	0 (0)	16 (67)	4 (100)
Tumor size (cm)	≤ 3 cm	1 (33)	0 (0)	20 (83)	1 (25)

* Patients with missing results n= 41 and with negative laboratory results n=13

** Patients with missing results n= 10

*** After both cystoscopy and computed tomography urography

**** Under active surveillance