

Table 1. Patients' characteristics			
	Qualitative ≤1+ proteinuria (n=535)	Qualitative ≥2+ proteinuria (n=199)	P
Age (y), mean (range)	64 (19–92)	65 (20–90)	0.15
Male, n (%)	261 (48.8)	96 (48.2)	0.962
Body weight (kg), mean (range)	60.7 (36.2–99.9)	61.4 (32.8–99.9)	0.47
Primary site, n (%)			
Colorectal cancer	220 (41.1)	64 (32.2)	0.03
Lung cancer	157 (29.3)	74 (37.2)	0.05
Glioma	80 (15.0)	34 (17.1)	0.55
Ovarian cancer	36 (6.7)	16 (8.0)	0.52
Breast caner	23 (4.3)	7 (3.5)	0.83
Cervical cancer	14 (2.6)	2 (1.0)	0.26
Cancer of unknown primary	3 (0.6)	2 (1.0)	0.62
Other	2 (0.4)	0 (0.0)	1
Medical history, n (%)			
Hypertension	103 (19.3)	44 (22.1)	0.449
Diabetes mellitus	48 (9.0)	28 (14.1)	0.06
Dyslipidemia	85 (15.9)	28 (14.1)	0.623
Smoking history			0.020
Yes	262 (49.0)	78 (39.2)	
No	272 (51.0)	121 (60.8)	
eGFR at the initial treatment, mL/min/1.73 m ²			0.103
>60	459 (85.7)	157 (78.9)	
45–59	63 (11.8)	32 (16.1)	
30–44	13 (2.4)	10 (5.0)	
BUN, mg/dl	14.0 ± 4.6	14.5 ± 4.9	0.169
Alb, mg/dl	3.8 ± 0.5	3.8 ± 0.5	0.678
The data were assessed using the chi-squared test or Fisher's exact test, as appropriate			
eGFR, estimated glomerular filtration rate; BUN, blood urea nitrogen; Alb, albumin			

Table 2. The details of patients with renal dysfunction

Age	Sex	Cancer	Proteinuria grade	eGFR decline (%)	Cause of renal dysfunction	Reason for BV discontinuation	Dose (mg/kg)	Total BV	
Reversible eGFR decline									
57	F	Colorectal	2+	88.5	Post-renal	Progressive disease	7.5	73	
64	M	Glioma	+−	86.1	DIC	Progressive disease	10	8	
56	M	Colorectal	2+	77.2	Septic AKI	GI perforation	7.5	8	
72	F	Colorectal	2+	76.9	Pre-renal	Progressive disease	5	26	
74	M	Colorectal	−	71.4	Pre-renal	GI bleeding	7.5	6	
70	F	Colorectal	+−	69.9	Pre-renal	Dehydration	7.5	1	
57	M	Colorectal	2+	68.6	Post-renal	Progressive disease	7.5	3	
43	M	Glioma	+−	67.8	Not applicable ^a	Progressive disease	10	13	
56	M	Colorectal	+−	65.6	Terminal	Progressive disease	7.5	13	
73	F	Lung	1+	64.3	Pre-renal	Progressive disease	15	17	
69	M	Colorectal	3+	63.5	Pre-renal	Progressive disease	7.5	55	
66	F	Colorectal	3+	62.0	Pre-renal	Encephalopathy	5	50	
58	M	Colorectal	−	61.5	Pre-renal	Pulmonary embolism	5	13	
78	M	Colorectal	1+	60.4	Post-renal	Progressive disease	5	8	
65	F	Breast	2+	57.5	Prerenal	Progressive disease	10	50	
Irreversible eGFR decline									
Case 1*	67	M	Lung	3+	76.6	DM, BV	Proteinuria	15	17
Case 2*	63	M	Colorectal	3+	70.6	BV	Nephrotic syndrome	5	70
	66	F	Cervical	+−	66.1	CDDP, ARB	Finished treatment ^b	7.5	10
	66	M	Lung	2+	65.9	LVFX	AKI	15	1
	71	M	Colorectal	1+	65.8	Terminal	Pulmonary embolism	5	1
	41	F	Lung	−	65.6	Terminal	Sepsis	15	7
Case 3*	62	F	Colorectal	3+	62.0	BV	Renal dysfunction	7.5	48
	57	F	Lung	2+	59.5	ALK inhibitor	Progressive disease	15	13
Case 4*	57	F	Lung	2+	57.9	PEM, BV	Nephrotic syndrome	15	21
	44	F	Cervical	1+	57.7	CDDP, diuretic, ARB	Progressive disease	15	7
BV, bevacizumab; DIC, disseminated intravascular coagulation; AKI, acute kidney injury; GI, gastrointestinal; DM, Diabetes mellitus; CDDP, cisplatin; ARB, angiotensin receptor blocker; LVFX, levofloxacin; ALK, anaplastic lymphoma kinase; PEM, pemetrexed									
* Proteinuria in these four patients, labeled as Cases 1–4, was likely related to BV. See the text for details.									
^a This patient had a large change in the eGFR because of a high initial eGFR level, which did not represent renal dysfunction.									
^b The scheduled maintenance therapy was completed.									

Supplemental Table 1. Frequency of other bevacizumab-associated adverse events			
	Qualitative ≤1+ proteinuria (n=535)	Qualitative ≥2+ proteinuria (n=199)	P
Adverse Events, n (%)			
Cardiovascular events	4 (0.7)	2 (1.0)	0.664
Venous thromboembolic events	15 (2.8)	1 (0.5)	0.083
Cerebrovascular complications	8 (1.5)	5 (2.5)	0.354
Hemorrhage	7 (1.3)	3 (1.5)	0.736
Gastrointestinal perforation	2 (0.4)	1 (0.5)	1.0
Other	2 (0.4)	1 (0.5)	1.0
Fisher’s exact test was used to analyze the differences in the frequencies of renal dysfunction and other adverse events among patients with varying grades of proteinuria.			

