

Appendix 1: Proportion of patients with advanced-stage bladder cancer by symptoms and sex

Presenting symptoms	Male		Female	
	Total	Number of advanced-stage cancer (%)	Total	Number of advanced-stage cancer (%)
Overall	854	88 (10.3)	297	63 (21.2)
Haematuria				
Yes	422	27 (6.4)	83	17 (20.5)
No	432	61 (14.1)	214	46 (21.5)
Urinary tract infections				
Yes	106	17 (16.0)	82	20 (24.4)
No	748	71 (9.5)	215	43 (20.0)
Systemic symptoms				
Yes	150	14 (9.3)	55	15 (27.3)
No	704	74 (10.5)	242	48 (19.8)
Abdominal symptoms				
Yes	117	24 (20.5)	53	8 (15.1)
No	737	64 (8.7)	244	55 (22.5)
Urogenital symptoms				
Yes	35	3 (8.6)	6	0
No	819	85 (10.4)	291	63 (21.6)
Multiple symptoms				
Yes	24	3 (12.5)	18	3 (16.7)
No	830	85 (10.2)	279	60 (21.5)

Appendix 2: Crude and adjusted predicted probabilities for advanced-stage cancer by sex and symptoms

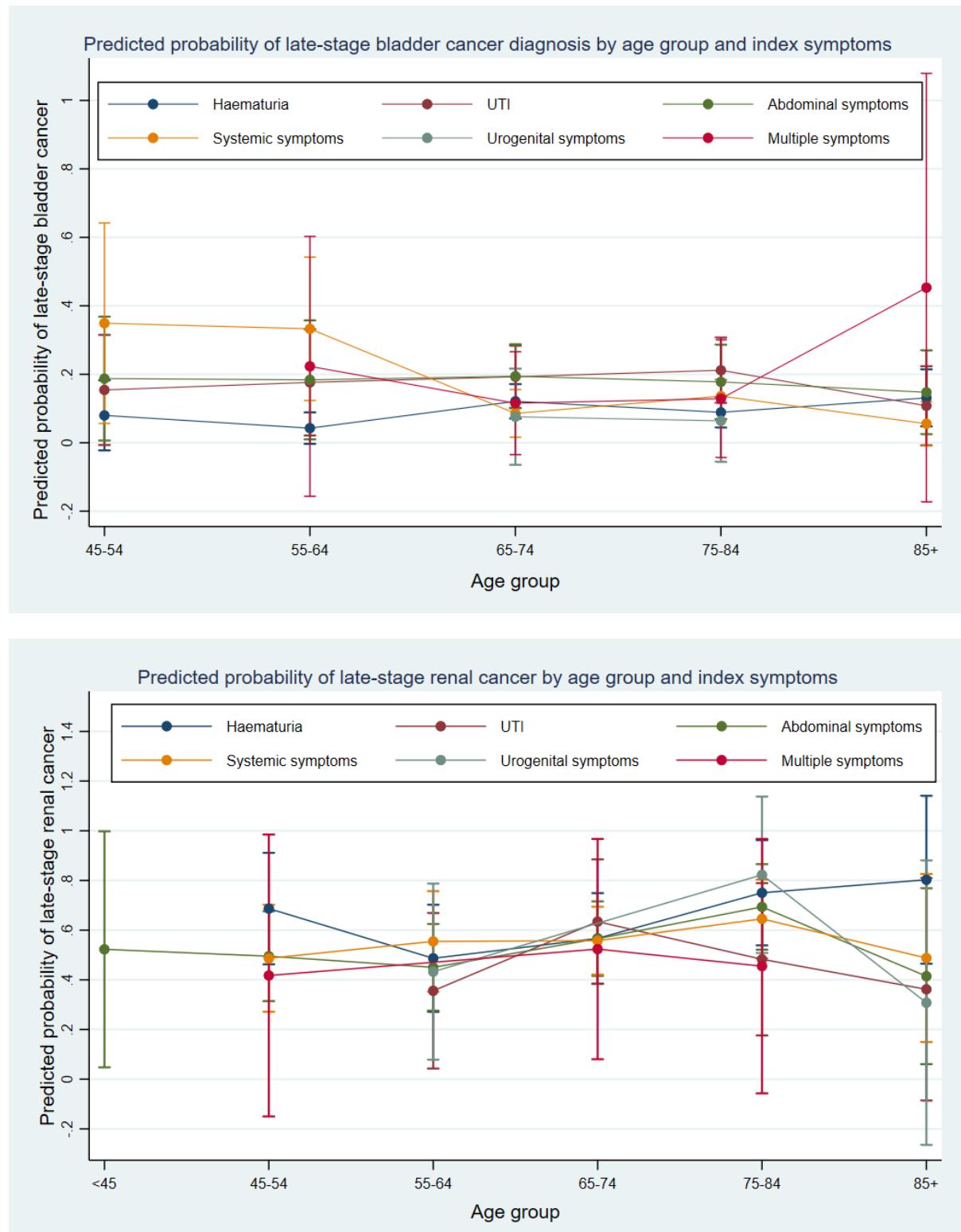
A: Bladder cancer

Presenting symptoms	Crude predicted probabilities for advanced-stage bladder cancer (95% CI)		Adjusted predicted probabilities for advanced-stage bladder cancer (95% CI)	
	Male	Female	Male	Female
Haematuria	0.06 (0.04 – 0.09)	0.20 (0.12 – 0.29)	0.07 (0.04 – 0.09)	0.21 (0.12 – 0.29)
UTI	0.16 (0.09 – 0.23)	0.24 (0.15 – 0.34)	0.17 (0.10 – 0.24)	0.24 (0.15 – 0.33)
Abdominal symptoms	0.21 (0.13 – 0.28)	0.15 (0.05 – 0.25)	0.20 (0.13 – 0.27)	0.15 (0.05 – 0.24)
Systemic symptoms	0.09 (0.05 – 0.14)	0.27 (0.16 – 0.39)	0.10 (0.05 – 0.14)	0.24 (0.13 – 0.35)
Urogenital symptoms	0.09 (-0.01 – 0.18)	-	0.10 (-0.01 – 0.20)	-
Multiple symptoms	0.13 (-0.01 – 0.26)	0.17 (-0.01 – 0.34)	0.10 (0.00 – 0.27)	0.14 (-0.01 – 0.28)

B: Renal cancer

Presenting symptoms	Crude predicted probabilities for advanced-stage bladder cancer (95% CI)		Adjusted predicted probabilities for advanced-stage bladder cancer (95% CI)	
	Male	Female	Male	Female
Haematuria	0.58 (0.46 – 0.69)	0.68 (0.48 – 0.89)	0.59 (0.48 – 0.71)	0.71 (0.52 – 0.91)
UTI	0.37 (0.15 – 0.59)	0.57 (0.36 – 0.78)	0.37 (0.16 – 0.58)	0.55 (0.34 – 0.75)
Abdominal symptoms	0.61 (0.51 – 0.72)	0.46 (0.33 – 0.58)	0.60 (0.50 – 0.71)	0.47 (0.35 – 0.59)
Systemic symptoms	0.53 (0.43 – 0.64)	0.59 (0.45 – 0.73)	0.54 (0.44 – 0.64)	0.58 (0.44 – 0.71)
Urogenital symptoms	0.56 (0.32 – 0.81)	0.43 (0.06 – 0.80)	0.54 (0.30 – 0.78)	0.39 (0.04 – 0.74)
Multiple symptoms	0.44 (0.12 – 0.77)	0.60 (0.17 – 1.03)	0.34 (0.04 – 0.64)	0.63 (0.22 – 1.04)

Appendix 3: Adjusted predicted probability of advanced-stage cancer diagnosis by age group and presenting symptoms



Appendix 4: Sensitivity analyses – bladder cancer

Haematuria	Reference		Reference		Reference		Reference	
UTI	2.20 (1.01, 4.77)	0.035	0.91 (0.07, 11.21)	0.659	2.29 (0.93, 5.67)	0.045	-	0.372
Abdominal symptoms	2.70 (0.98, 7.42)		0.57 (0.23, 1.41)		2.89 (0.95, 8.80)		1.15 (0.32, 4.16)	
Systemic symptoms	1.05 (0.26, 4.30)		0.95 (0.31, 2.95)		0.85 (0.14, 5.24)		4.26 (0.65, 27.91)	
Other urogenital symptoms	6.38 (1.33, 30.59)		1.00 (0.00, 0.00)		7.06 (1.41, 35.32)		-	
Multiple symptoms	0.41 (0.04, 3.88)		0.30 (0.03, 2.79)		0.48 (0.05, 4.84)		0.48 (0.04, 5.03)	