

A Primary-composite success by clinical decision category

	GPT-5.2 Instant	Claude Sonnet 4.5	Gemini 3 Pro Preview	Urologist A	Urologist B
Diagnostic/staging	17/20 (85%)	13/20 (65%)	12/20 (60%)	19/20 (95%)	18/20 (90%)
Follow-up/safety	11/20 (55%)	10/20 (50%)	11/20 (55%)	16/20 (80%)	18/20 (90%)
Initial treatment	16/20 (80%)	19/20 (95%)	13/20 (65%)	18/20 (90%)	18/20 (90%)
Risk/stage classification	13/20 (65%)	10/20 (50%)	11/20 (55%)	16/20 (80%)	18/20 (90%)
Treatment sequencing	13/20 (65%)	12/20 (60%)	13/20 (65%)	16/20 (80%)	17/20 (85%)

B Primary-composite success by cancer domain

	GPT-5.2 Instant	Claude Sonnet 4.5	Gemini 3 Pro Preview	Urologist A	Urologist B
Bladder cancer	15/20 (75%)	16/20 (80%)	13/20 (65%)	17/20 (85%)	18/20 (90%)
Prostate cancer	15/20 (75%)	11/20 (55%)	14/20 (70%)	17/20 (85%)	17/20 (85%)
Renal cell carcinoma	12/20 (60%)	14/20 (70%)	10/20 (50%)	16/20 (80%)	17/20 (85%)
Testicular cancer	16/20 (80%)	12/20 (60%)	10/20 (50%)	18/20 (90%)	19/20 (95%)
Upper tract urothelial carcinoma	12/20 (60%)	11/20 (55%)	13/20 (65%)	17/20 (85%)	18/20 (90%)

C Safety-critical errors by clinical decision category

	GPT-5.2 Instant	Claude Sonnet 4.5	Gemini 3 Pro Preview	Urologist A	Urologist B
Diagnostic/staging	3/20 (15%)	5/20 (25%)	3/20 (15%)	0/20 (0%)	0/20 (0%)
Follow-up/safety	6/20 (30%)	6/20 (30%)	7/20 (35%)	1/20 (5%)	0/20 (0%)
Initial treatment	4/20 (20%)	1/20 (5%)	5/20 (25%)	0/20 (0%)	0/20 (0%)
Risk/stage classification	6/20 (30%)	8/20 (40%)	7/20 (35%)	1/20 (5%)	0/20 (0%)
Treatment sequencing	6/20 (30%)	5/20 (25%)	4/20 (20%)	0/20 (0%)	1/20 (5%)

D Safety-critical errors by cancer domain

	GPT-5.2 Instant	Claude Sonnet 4.5	Gemini 3 Pro Preview	Urologist A	Urologist B
Bladder cancer	3/20 (15%)	2/20 (10%)	3/20 (15%)	1/20 (5%)	1/20 (5%)
Prostate cancer	5/20 (25%)	7/20 (35%)	4/20 (20%)	0/20 (0%)	0/20 (0%)
Renal cell carcinoma	5/20 (25%)	5/20 (25%)	7/20 (35%)	1/20 (5%)	0/20 (0%)
Testicular cancer	4/20 (20%)	4/20 (20%)	7/20 (35%)	0/20 (0%)	0/20 (0%)
Upper tract urothelial carcinoma	8/20 (40%)	7/20 (35%)	5/20 (25%)	0/20 (0%)	0/20 (0%)