

Table S1 Detailed search strategy

Search component	Search terms
Immune checkpoint inhibitors	“Immune Checkpoint Inhibitors” [MeSH] • “immune checkpoint inhibitor*” OR “immune checkpoint blockade” OR “ICIs”)
Adjuvant therapy context	“adjuvant therapy” [MeSH] • “adjuvant immunotherapy” OR “adjuvant treatment” OR “perioperative immunotherapy” OR “perioperative therapy”
Urological cancers	“Urologic Neoplasms” [MeSH] • “urothelial carcinoma” OR “bladder cancer” OR “renal cell carcinoma” OR “kidney cancer” OR “prostate cancer” OR “testicular cancer” OR “penile cancer”
Toxicities	“Treatment Toxicities” [MeSH] • “immune-related adverse events” OR “immune-mediated toxicity” OR “irAEs” OR “adverse effect*” OR “side effect*”
Combine sets	#1 AND #2 AND #3 AND #4
Filters/Limits	Publication dates: January 2014 to January 2025 English language only
Final output	(#5) AND (“clinical trial” OR “multicentre study” OR “randomised controlled trial” OR “systematic review” OR “meta-analysis”)