

**Supplementary Table S1.** Records identified with the literature search through databases.

Database	Search strategy	Records Identified
	MeSH terms/Search terms	
PubMed	Body mass index Obesity Immunotherapy Ipilimumab Nivolumab Pembrolizumab Atezolizumab Durvalumab Avelumab Melanoma Carcinoma, non small-cell lung Carcinoma, renal cell Urologic neoplasms Neoplasms	450
Scopus	Body mass index Obesity Immunotherapy anti-CTLA4 anti-PD1 anti-PD-L1 Ipilimumab Nivolumab Pembrolizumab Atezolizumab Durvalumab Avelumab Melanoma Carcinoma, non small-cell lung Urothelial tumor Carcinoma, renal cell Cancer Outcome	303

Web of Science	Body mass index Obesity Immunotherapy anti-CTLA4 anti-PD1 anti-PD-L1 Ipilimumab Nivolumab Pembrolizumab Atezolizumab Durvalumab Avelumab Melanoma Carcinoma, non small-cell lung Urothelial tumor Carcinoma, renal cell Cancer Outcome	150
Embase	Body mass index Obesity Immunotherapy Ipilimumab Nivolumab Pembrolizumab Atezolizumab Durvalumab Avelumab Melanoma Carcinoma, non small-cell lung Carcinoma, renal cell Urologic neoplasms Neoplasms	252
Cochrane Central	Body mass index Obesity Immunotherapy Ipilimumab Nivolumab Pembrolizumab Atezolizumab	270

	Durvalumab Avelumab Melanoma Carcinoma, non small-cell lung Carcinoma, renal cell Urologic neoplasms Neoplasms	
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