

Table S1 The search strategy		
Search number	Query	Results
PubMed		
1	Nivolumab[MeSH Terms]	6363
2	“ba 1104”[Title/Abstract] OR “ba1104”[Title/Abstract] OR “BMS 936558”[Title/Abstract] OR “BMS936558”[Title/Abstract] OR “cmab 819”[Title/Abstract] OR “cmab819”[Title/Abstract] OR “ly 01015”[Title/Abstract] OR “ly01015”[Title/Abstract] OR “MDX 1106”[Title/Abstract] OR “MDX1106”[Title/Abstract] OR “Nivolumab”[Title/Abstract] OR “ONO 4538”[Title/Abstract] OR “ONO4538”[Title/Abstract] OR “Opdivo”[Title/Abstract] OR “pbp 2101”[Title/Abstract] OR “pbp2101”[Title/Abstract] OR “xdivane”[Title/Abstract]	11444
3	Immune Checkpoint Inhibitors[MeSH Terms]	15645
4	“Immune Checkpoint Blockade”[Title/Abstract] OR “immune checkpoint blocker”[Title/Abstract] OR “Immune Checkpoint Inhibition”[Title/Abstract] OR “Immune Checkpoint Inhibitor”[Title/Abstract] OR “PD 1 Inhibitor”[Title/Abstract] OR “PD 1 PD L1 Blockade”[Title/Abstract] OR “PD L1 Inhibitor”[Title/Abstract] OR “Programmed Cell Death Protein 1 Inhibitor”[Title/Abstract] OR “Programmed Death Ligand 1 Inhibitors”[Title/Abstract]	48991
5	Docetaxel[MeSH Terms]	13142
6	“axtere”[Title/Abstract] OR “bind 014”[Title/Abstract] OR “bind014”[Title/Abstract] OR “bs 102”[Title/Abstract] OR “bs102”[Title/Abstract] OR “crlx 301”[Title/Abstract] OR “crlx301”[Title/Abstract] OR “daxotel”[Title/Abstract] OR “dexotel”[Title/Abstract] OR “docefrez”[Title/Abstract] OR “Docetaxel”[Title/Abstract] OR “docetaxel accord”[Title/Abstract] OR “Docetaxel Anhydrous”[Title/Abstract] OR “Docetaxel Hydrate”[Title/Abstract] OR “Docetaxel Trihydrate”[Title/Abstract] OR “Docetaxol”[Title/Abstract] OR “lit 976”[Title/Abstract] OR “lit976”[Title/Abstract] OR “N Debenzoyl N tert butoxycarbonyl 10 deacetyltaxol”[Title/Abstract] OR “n tert butoxycarbonyl 10 deacetyl n debenzoyltaxol”[Title/Abstract] OR “NSC 628503”[Title/Abstract] OR “nsc628503”[Title/Abstract] OR “oncodocel”[Title/Abstract] OR “RP 56976”[Title/Abstract] OR “RP56976”[Title/Abstract] OR “taxanit”[Title/Abstract] OR “taxespira”[Title/Abstract] OR “Taxoltere Metro”[Title/Abstract] OR “taxoter”[Title/Abstract] OR “texot”[Title/Abstract] OR “xrp 6976”[Title/Abstract] OR “xrp6976”[Title/Abstract]	20444
7	Carcinoma, Non-Small-Cell Lung[MeSH Terms]	79511
8	“ bronchial non small cell cancer”[Title/Abstract] OR “bronchial non small cell carcinoma”[Title/Abstract] OR “lung non small cell cancer”[Title/Abstract] OR “lung non small cell carcinoma”[Title/Abstract] OR “non oat cell lung cancer”[Title/Abstract] OR “non small cell bronchial cancer”[Title/Abstract] OR “non small cell lung cancer”[Title/Abstract] OR “Non Small Cell Lung Carcinoma”[Title/Abstract] OR “Non Small Cell Lung Carcinomas”[Title/Abstract] OR “non small cell pulmonary cancer”[Title/Abstract] OR “non small cell pulmonary carcinoma”[Title/Abstract] OR “non squamous NSCLC”[Title/Abstract] OR “nonsmall cell carcinoma of the lung”[Title/Abstract] OR “Nonsmall Cell Lung Cancer”[Title/Abstract] OR “nonsmall cell lung carcinoma”[Title/Abstract] OR “pulmonary non small cell cancer”[Title/Abstract] OR “pulmonary non small cell carcinoma”[Title/Abstract]	98502
9	(#1 OR #2 OR #3 OR #4) AND (#5 OR #6) AND (#7 OR #8)	304
Embase		
1	‘ba 1104’:ti,ab,kw OR ‘ba1104’:ti,ab,kw OR ‘bms 936558’:ti,ab,kw OR ‘bms936558’:ti,ab,kw OR ‘cmab 819’:ti,ab,kw OR ‘cmab819’:ti,ab,kw OR ‘ly 01015’:ti,ab,kw OR ‘ly01015’:ti,ab,kw OR ‘mdx 1106’:ti,ab,kw OR ‘mdx1106’:ti,ab,kw OR ‘nivolumab’:ti,ab,kw OR ‘ono 4538’:ti,ab,kw OR ‘ono4538’:ti,ab,kw OR ‘opdivo’:ti,ab,kw OR ‘pbp 2101’:ti,ab,kw OR ‘pbp2101’:ti,ab,kw OR ‘xdivane’:ti,ab,kw	22589
2	‘nivolumab’/exp	43257
3	‘immune checkpoint inhibitor’/exp	33988
4	‘immune checkpoint blockade’:ti,ab,kw OR ‘immune checkpoint blocker’:ti,ab,kw OR ‘immune checkpoint inhibition’:ti,ab,kw OR ‘immune checkpoint inhibitor’:ti,ab,kw OR ‘pd 1 inhibitor’:ti,ab,kw OR ‘pd 1 pd l1 blockade’:ti,ab,kw OR ‘pd l1 inhibitor’:ti,ab,kw OR ‘programmed cell death protein 1 inhibitor’:ti,ab,kw OR ‘programmed death ligand 1 inhibitors’:ti,ab,kw	65253
5	‘docetaxel’/exp	77429
6	‘axtere’:ti,ab,kw OR ‘bind 014’:ti,ab,kw OR ‘bind014’:ti,ab,kw OR ‘bs 102’:ti,ab,kw OR ‘bs102’:ti,ab,kw OR ‘crlx 301’:ti,ab,kw OR ‘crlx301’:ti,ab,kw OR ‘daxotel’:ti,ab,kw OR ‘dexotel’:ti,ab,kw OR ‘docefrez’:ti,ab,kw OR ‘docetaxel’:ti,ab,kw OR ‘docetaxel accord’:ti,ab,kw OR ‘docetaxel anhydrous’:ti,ab,kw OR ‘docetaxel hydrate’:ti,ab,kw OR ‘docetaxel trihydrate’:ti,ab,kw OR ‘docetaxol’:ti,ab,kw OR ‘lit 976’:ti,ab,kw OR ‘lit976’:ti,ab,kw OR ‘n debenzoyl n tert butoxycarbonyl 10 deacetyltaxol’:ti,ab,kw OR ‘n tert butoxycarbonyl 10 deacetyl n debenzoyltaxol’:ti,ab,kw OR ‘nsc 628503’:ti,ab,kw OR ‘nsc628503’:ti,ab,kw OR ‘oncodocel’:ti,ab,kw OR ‘rp 56976’:ti,ab,kw OR ‘rp56976’:ti,ab,kw OR ‘taxanit’:ti,ab,kw OR ‘taxespira’:ti,ab,kw OR ‘taxotere metro’:ti,ab,kw OR ‘taxoter’:ti,ab,kw OR ‘texot’:ti,ab,kw OR ‘xrp 6976’:ti,ab,kw OR ‘xrp6976’:ti,ab,kw	35450
7	‘non small cell lung cancer’/exp	230705
8	‘bronchial non small cell cancer’:ti,ab,kw OR ‘bronchial non small cell carcinoma’:ti,ab,kw OR ‘lung non small cell cancer’:ti,ab,kw OR ‘lung non small cell carcinoma’:ti,ab,kw OR ‘non oat cell lung cancer’:ti,ab,kw OR ‘non small cell bronchial cancer’:ti,ab,kw OR ‘non small cell lung cancer’:ti,ab,kw OR ‘non small cell lung carcinomas’:ti,ab,kw OR ‘non small cell pulmonary cancer’:ti,ab,kw OR ‘non small cell pulmonary carcinoma’:ti,ab,kw OR ‘non squamous nsclc’:ti,ab,kw OR ‘nonsmall cell carcinoma of the lung’:ti,ab,kw OR ‘nonsmall cell lung cancer’:ti,ab,kw OR ‘nonsmall cell lung carcinoma’:ti,ab,kw OR ‘pulmonary non small cell cancer’:ti,ab,kw OR ‘pulmonary non small cell carcinoma’:ti,ab,kw	143823
9	(#1 OR #2 OR #3 OR #4) AND (#5 OR #6) AND (#7 OR #8)	2635
Cochrane		
1	MeSH descriptor: [Nivolumab] explode all trees	1031
2	(‘ba 1104’ OR ‘ba1104’ OR ‘BMS 936558’ OR ‘BMS936558’ OR ‘cmab 819’ OR ‘cmab819’ OR ‘ly 01015’ OR ‘ly01015’ OR ‘MDX 1106’ OR ‘MDX1106’ OR ‘Nivolumab’ OR ‘ONO 4538’ OR ‘ONO4538’ OR ‘Opdivo’ OR ‘pbp 2101’ OR ‘pbp2101’ OR ‘xdivane’):ti,ab,kw	3230
3	MeSH descriptor: [Immune Checkpoint Inhibitors] explode all trees	279
4	(‘Immune Checkpoint Blockade’ OR ‘immune checkpoint blocker’ OR ‘Immune Checkpoint Inhibition’ OR ‘Immune Checkpoint Inhibitor’ OR ‘PD 1 Inhibitor’ OR ‘PD 1 PD L1 Blockade’ OR ‘PD L1 Inhibitor’ OR ‘Programmed Cell Death Protein 1 Inhibitor’ OR ‘Programmed Death Ligand 1 Inhibitors’):ti,ab,kw	9017
5	MeSH descriptor: [Docetaxel] explode all trees	2935
6	(‘axtere’ OR ‘bind 014’ OR ‘bind014’ OR ‘bs 102’ OR ‘bs102’ OR ‘crlx 301’ OR ‘crlx301’ OR ‘daxotel’ OR ‘dexotel’ OR ‘docefrez’ OR ‘Docetaxel’ OR ‘docetaxel accord’ OR ‘Docetaxel Anhydrous’ OR ‘Docetaxel Hydrate’ OR ‘Docetaxel Trihydrate’ OR ‘Docetaxol’ OR ‘lit 976’ OR ‘lit976’ OR ‘N Debenzoyl N tert butoxycarbonyl 10 deacetyltaxol’ OR ‘n tert butoxycarbonyl 10 deacetyl n debenzoyltaxol’ OR ‘NSC 628503’ OR ‘nsc628503’ OR ‘oncodocel’ OR ‘RP 56976’ OR ‘RP56976’ OR ‘taxanit’ OR ‘taxespira’ OR ‘Taxoltere Metro’ OR ‘taxoter’ OR ‘texot’ OR ‘xrp 6976’ OR ‘xrp6976’):ti,ab,kw	8820
7	MeSH descriptor: [Carcinoma, Non-Small-Cell Lung] explode all trees	6670
8	(‘ bronchial non small cell cancer’ OR ‘bronchial non small cell carcinoma’ OR ‘lung non small cell cancer’ OR ‘lung non small cell carcinoma’ OR ‘non oat cell lung cancer’ OR ‘non small cell bronchial cancer’ OR ‘non small cell lung cancer’ OR ‘Non Small Cell Lung Carcinoma’ OR ‘Non Small Cell Lung Carcinomas’ OR ‘non small cell pulmonary cancer’ OR ‘non small cell pulmonary carcinoma’ OR ‘non squamous NSCLC’ OR ‘nonsmall cell carcinoma of the lung’ OR ‘Nonsmall Cell Lung Cancer’ OR ‘nonsmall cell lung carcinoma’ OR ‘pulmonary non small cell cancer’ OR ‘pulmonary non small cell carcinoma’):ti,ab,kw	17379
9	(#1 OR #2 OR #3 OR #4) AND (#5 OR #6) AND (#7 OR #8)	325
Web of science		
1	TS=((ba 1104) OR (ba1104) OR (BMS 936558) OR (BMS936558) OR (cmab 819) OR (cmab819) OR (ly 01015) OR (ly01015) OR (MDX 1106) OR (MDX1106) OR (Nivolumab) OR (ONO 4538) OR (ONO4538) OR (Opdivo) OR (pbp 2101) OR (pbp2101) OR (xdivane)) and Preprint Citation Index	27897
2	TS=((Immune Checkpoint Blockade) OR (immune checkpoint blocker*) OR (Immune Checkpoint Inhibition) OR (Immune Checkpoint Inhibitor*) OR (PD 1 Inhibitor*) OR (PD 1 PD L1 Blockade) OR (PD L1 Inhibitor*) OR (Programmed Cell Death Protein 1 Inhibitor*) OR (Programmed Death Ligand 1 Inhibitors)) and Preprint Citation Index	112642
3	TS=((axtere) OR (bind 014) OR (bind014) OR (bs 102) OR (bs102) OR (crlx 301) OR (crlx301) OR (daxotel) OR (dexotel) OR (docefrez) OR (Docetaxel) OR (docetaxel accord) OR (Docetaxel Anhydrous) OR (Docetaxel Hydrate) OR (Docetaxel Trihydrate) OR (Docetaxol) OR (lit 976) OR (lit976) OR (N Debenzoyl N tert butoxycarbonyl 10 deacetyltaxol) OR (n tert butoxycarbonyl 10 deacetyl n debenzoyltaxol) OR (NSC 628503) OR (nsc628503) OR (oncodocel) OR (RP 56976) OR (RP56976) OR (taxanit) OR (taxespira) OR (Taxoltere Metro) OR (taxoter*) OR (texot) OR (xrp 6976) OR (xrp6976)) and Preprint Citation Index	52656
4	TS=((bronchial non small cell cancer) OR (bronchial non small cell carcinoma) OR (lung non small cell cancer) OR (lung non small cell carcinoma) OR (non oat cell lung cancer) OR (non small cell bronchial cancer) OR (non small cell lung cancer) OR (Non Small Cell Lung Carcinoma) OR (Non Small Cell Lung Carcinomas) OR (non small cell pulmonary cancer) OR (non small cell pulmonary carcinoma) OR (non squamous NSCLC) OR (nonsmall cell carcinoma of the lung) OR (Nonsmall Cell Lung Cancer) OR (nonsmall cell lung carcinoma) OR (pulmonary non small cell cancer) OR (pulmonary non small cell carcinoma)) and Preprint Citation Index	200996
5	(#1 OR #2) AND #3 AND #4 and Preprint Citation Index	2879

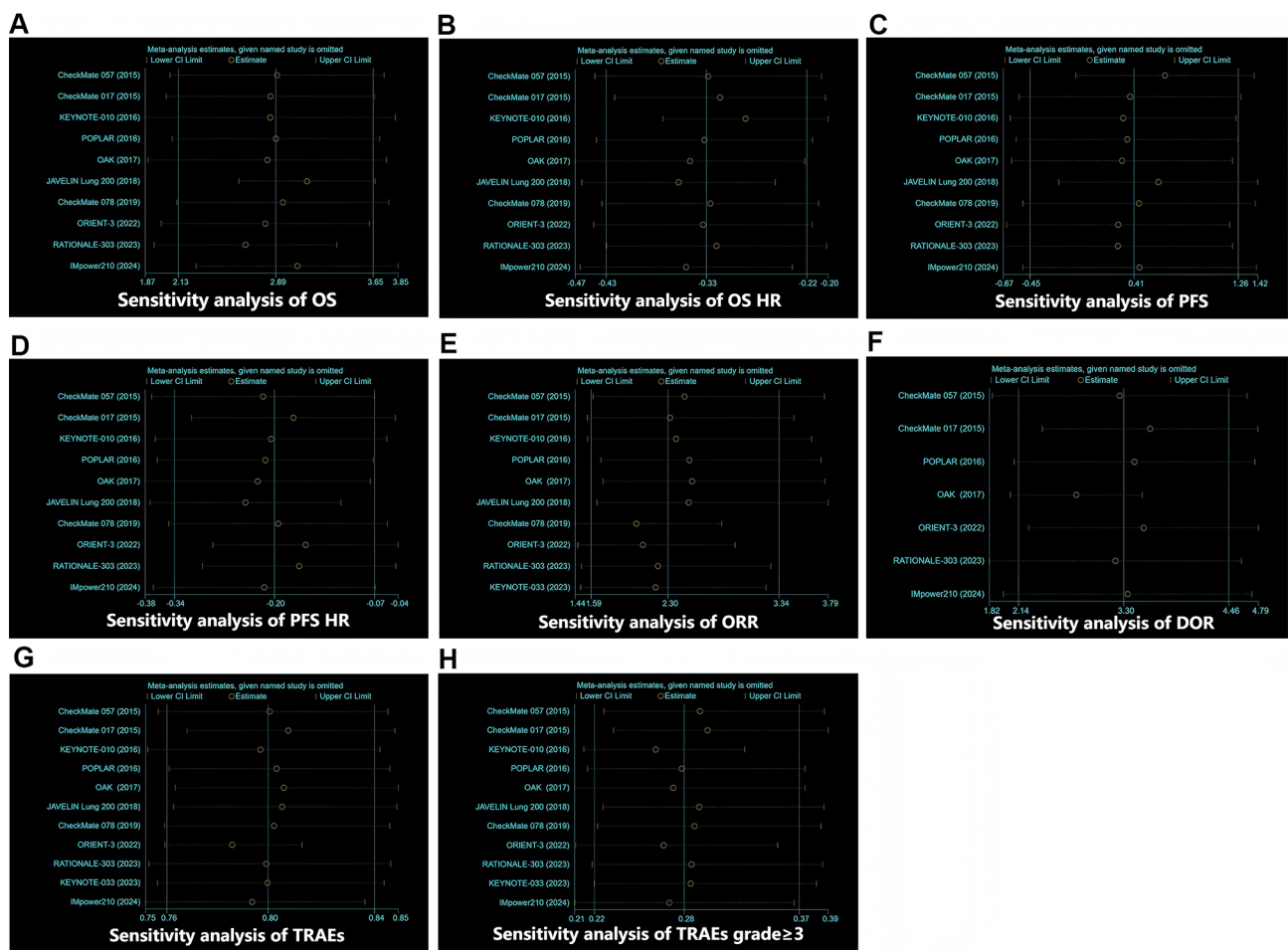


Figure S1 Sensitivity analysis of OS (A), OS HR (B), PFS (C), PFS HR (D), ORR (E), DOR (F), TRAEs(G) and TRAEs grade ≥ 3 (H).