

1 **Appendices**

2 Appendix 1

3 Overview of search strategy and results from PubMed search for NSCLC records.

| Search number | Query | Group | Number of records |
|---------------|---|--------------------|-------------------|
| 1 | "Carcinoembryonic Antigen"[Mesh] OR "antigen CYFRA21.1"[Supplementary Concept] OR "CA-125 Antigen"[Mesh] OR "squamous cell carcinoma-related antigen"[Supplementary Concept] OR "CA-19-9 Antigen"[Mesh] OR "Phosphopyruvate Hydratase"[Mesh] OR "pro-gastrin-releasing peptide (31- 98)"[Supplementary Concept] | Biomarker terms | 32 333 |
| 2 | "Carcinoembryonic Antigen"[tiab] OR "CEA"[tiab] OR "CD66e"[tiab] OR "CD66e"[tiab] OR "CYFRA21.1"[tiab] OR "CYFRA 21-1"[tiab] OR "CYFRA 21.1"[tiab] OR "Cyfra 21-1"[tiab] OR "Cyfra21·1"[tiab] OR "Cyfra21- 1"[tiab] OR "CA-125"[tiab] OR "CA 125"[tiab] OR "Mucin-16"[tiab] OR "Mucin 16"[tiab] OR "CA 15.3"[tiab] OR "CA-15-3"[tiab] OR "CA 15 3"[tiab] OR "CA15.3"[tiab] OR "CA15-3"[tiab] OR "CA15 3"[tiab] OR "cancer antigen 125"[tiab] OR "CA125"[tiab] OR "CD227 "[tiab] OR "CA 15-3 Antigen"[tiab] OR "CA 15 3 Antigen"[tiab] OR "SCC-Ag"[tiab] OR "squamous cell carcinoma antigen"[tiab] OR "SCC antigen"[tiab] OR "squamous cell carcinoma antigen 2"[tiab] OR "squamous | | 56 508 |

cell carcinoma antigen 1"[tiab] OR "SCCA"[tiab] OR
 "SERPINB4"[tiab] OR "CA-19-9"[tiab] OR "CA 19
 9"[tiab] OR "CA 19-9"[tiab] OR "CA 19-9 Antigen"[tiab]
 OR "CA 19.9 Antigen"[tiab] OR "Antigen CA-19-9"[tiab]
 OR "Antigen CA 19 9"[tiab] OR "NSE"[tiab] OR
 "Nervous System-Specific Enolase"[tiab] OR "Nervous
 System Specific Enolase"[tiab] OR "Neuron-Specific
 Enolase"[tiab] OR "Neuron Specific Enolase"[tiab] OR
 "ProGRP"[tiab] OR "HE4"[tiab] OR "anti-p53"[tiab] OR
 "antip53"[tiab]

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|---|--|-------------|-----------|
| 3 | #1 OR #2 | | 66 518 |
| 4 | "Carcinoma, Non-Small-Cell Lung"[Mesh] OR "Carcinoma, Non-Small-Cell Lung/blood"[Mesh] OR "Non-Small-Cell Lung Carcinomas"[tiab] OR "Nonsmall Cell Lung Cancer"[tiab] OR "Non-Small-Cell Lung Carcinoma"[tiab] OR "Non Small Cell Lung Carcinoma"[tiab] OR "Non-Small Cell Lung Cancer"[tiab] OR "Non-Small-Cell Lung Cancer"[tiab] OR "NSCLC"[tiab] OR "Nonsmall Cell Lung Carcinoma"[tiab] | NSCLC terms | 94 606 |
| 5 | "Response Evaluation Criteria in Solid Tumors"[Mesh] OR "Tomography, X-Ray Computed"[Mesh] OR "Positron-Emission Tomography"[Mesh] OR "Blood"[Mesh] OR "Prognosis"[Mesh] OR "Disease Progression"[Mesh] OR "Recurrence"[Mesh] OR | Core terms | 3 720 861 |

"Biomarkers, Tumor/blood"[Mesh] OR "Lung
Neoplasms/blood"[Mesh]

6 "advanced"[tiab] OR "advanced stage"[tiab] OR 7 729 625
"blood"[tiab] OR "blood based"[tiab] OR "blood-
based"[tiab] OR "CAT Scan"[tiab] OR "computed
tomography"[tiab] OR "Computed X Ray
Tomography"[tiab] OR "Computed X-Ray
Tomography"[tiab] OR "CT"[tiab] OR "CT scan"[tiab]
OR "CT X Ray"[tiab] OR "CT X Rays"[tiab] OR
"Electron Beam Computed Tomography"[tiab] OR
"Electron Beam Tomography"[tiab] OR
"Exacerbation"[tiab] OR "extensive disease"[tiab] OR
"first cycle"[tiab] OR "first line"[tiab] OR "first-line"[tiab]
OR "iRECIST"[tiab] OR "late stage"[tiab] OR "late-
stage"[tiab] OR "longitudinal"[tiab] OR "metastatic"[tiab]
OR "mNSCLC"[tiab] OR "monitor"[tiab] OR
"monitoring"[tiab] OR "mSCLC"[tiab] OR "PET"[tiab]
OR "PET Imaging"[tiab] OR "PET Scan"[tiab] OR "PET
Scans"[tiab] OR "PET/CT"[tiab] OR "plasma"[tiab] OR
"Positron Emission Tomography"[tiab] OR "Positron
Emission Tomography Imaging"[tiab] OR "Positron-
Emission Tomography Imaging"[tiab] OR
"prediction"[tiab] OR "predictive"[tiab] OR
"prognosis"[tiab] OR "Prognostic"[tiab] OR
"progression"[tiab] OR "progressive disease"[tiab] OR
"protein biomarker"[tiab] OR "RECIST"[tiab] OR
"Recrudescence"[tiab] OR "Recrudescences"[tiab] OR

"recurrence"[tiab] OR "Recurrences"[tiab] OR
 "relapse"[tiab] OR "Relapses "[tiab] OR "Response
 Evaluation Criteria in Solid Tumors"[tiab] OR "Response
 Evaluation Criteria in Solid Tumours"[tiab] OR
 "serum"[tiab] OR "stable"[tiab] OR "stage 3"[tiab] OR
 "stage 4"[tiab] OR "stage III"[tiab] OR "stage IV"[tiab]
 OR "Tomodensitometry"[tiab] OR "Transmission
 Computed Tomography"[tiab] OR "X Ray Computer
 Assisted Tomography"[tiab] OR "X Ray Computerized
 Axial Tomography"[tiab] OR "X Ray Computerized
 Tomography"[tiab] OR "X-Ray CAT Scan"[tiab] OR
 "Xray Computed Tomography"[tiab] OR "X-Ray
 Computed Tomography"[tiab] OR "X-Ray Computer
 Assisted Tomography"[tiab] OR "X-Ray Computerized
 Axial Tomography"[tiab] OR "X-Ray Computerized
 Tomography"[tiab] OR "X-Ray CT Scan"[tiab] OR "X-
 Ray CT Scans"[tiab]

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|---|---|---|-----------|
| 7 | #5 OR #6 | | 9 555 804 |
| 8 | "Immunotherapy"[Mesh] OR "B7-H1 Antigen"[Mesh] OR "Programmed Cell Death 1 Receptor"[Mesh] OR "Immune Checkpoint Inhibitors"[Mesh] OR "Molecular Targeted Therapy"[Mesh] OR "Protein-Tyrosine Kinases/antagonists and inhibitors"[Mesh] OR "Protein Kinase Inhibitors"[Mesh] OR "Nivolumab"[Mesh] OR "cemiplimab" [Supplementary Concept] OR "dostarlimab" [Supplementary Concept] OR "atezolizumab" [Supplementary Concept] OR "avelumab" [Supplementary | General immunotherapy terms | 450 606 |

Concept] OR "pembrolizumab" [Supplementary Concept]
OR "durvalumab" [Supplementary Concept] OR
"Programmed Cell Death 1 Ligand 2 Protein"[Mesh]

9 "Immunotherapy"[tiab] OR "Immunotherapies"[tiab] OR
"B7-H1"[tiab] OR "B7 H1"[tiab] OR "Programmed Death
Ligand 1"[tiab] OR "Programmed Cell Death 1 Ligand 2
Protein"[Mesh] OR "CD274"[tiab] OR "CD274"[tiab] OR
"B7H1"[tiab] OR "PD-L1"[tiab] OR "PD L1"[tiab] OR
"Programmed Cell Death 1 Ligand 1 Protein"[tiab] OR
"PD-L1 Protein"[tiab] OR "PD L1 Protein"[tiab] OR
"Programmed Cell Death 1 Ligand 1"[tiab] OR "PD-1
Protein"[tiab] OR "PD 1 Protein"[tiab] OR "PD-1
Receptor"[tiab] OR "PD 1 Receptor"[tiab] OR
"CD279"[tiab] OR "PD1 Receptor"[tiab] OR
"Programmed Cell Death Protein 1"[tiab] OR
"Programmed Cell Death 1 Protein"[tiab] OR "PD-
L1"[tiab] OR "PDL1"[tiab] OR "PD-1"[tiab] OR
"PD1"[tiab] OR "Immune Checkpoint Inhibitor"[tiab] OR
"Immune Checkpoint Inhibitors"[tiab] OR "Immune
Checkpoint Blockers"[tiab] OR "Immune Checkpoint
Blockade"[tiab] OR "Immune Checkpoint
Inhibition"[tiab] OR "PD-L1 Inhibitors"[tiab] OR "PD L1
Inhibitors"[tiab] OR "PD-L1 Inhibitor"[tiab] OR "PD L1
Inhibitor"[tiab] OR "Programmed Death-Ligand 1
Inhibitors"[tiab] OR "Programmed Death Ligand 1
Inhibitors"[tiab] OR "PD-1-PD-L1 Blockade"[tiab] OR
"PD 1 PD L1 Blockade"[tiab] OR "PD-1 Inhibitors"[tiab]

234 068

OR "PD 1 Inhibitors"[tiab] OR "PD-1 Inhibitor"[tiab] OR
"PD 1 Inhibitor"[tiab] OR "Programmed Cell Death
Protein 1 Inhibitor"[tiab] OR "Programmed Cell Death
Protein 1 Inhibitor"[tiab] OR "Molecular Targeted
Therapies"[tiab] OR "Targeted Molecular Therapy"[tiab]
OR "Targeted Molecular Therapies"[tiab] OR "Targeted
Therapies"[tiab] OR "Targeted Therapy"[tiab] OR
"tyrosine kinase inhibitor"[tiab] OR "tyrosine kinase
inhibitors"[tiab] OR "TKI"[tiab] OR "TKIs"[tiab] OR
"TKI therapy"[tiab] OR "TKI therapies"[tiab] OR
"nivolumab"[tiab] OR "ONO 4538"[tiab] OR
"ONO4538"[tiab] OR "ONO-4538"[tiab] OR "BMS-
936558"[tiab] OR "BMS936558"[tiab] OR "BMS
936558"[tiab] OR "MDX-1106"[tiab] OR
"MDX1106"[tiab] OR "MDX 1106"[tiab] OR
"opdivo"[tiab] OR "cemiplimab"[tiab] OR
"REGN2810"[tiab] OR "dostarlimab"[tiab] OR
"GSK4057190"[tiab] OR "TSR-042"[tiab] OR
"Atezolizumab"[tiab] OR "Tecentriq"[tiab] OR
"MPDL3280A"[tiab] OR "MPDL-3280A"[tiab] OR
"MPDL 3280A"[tiab] OR "MDPL3280A"[tiab] OR
"MDPL-3280A"[tiab] OR "MDPL 3280A"[tiab] OR
"RO5541267"[tiab] OR "RO-5541267"[tiab] OR "RO
5541267"[tiab] OR "RG-7446"[tiab] OR "RG7446"[tiab]
OR "RG 7446"[tiab] OR "Avelumab"[tiab] OR
"MSB0010718C"[tiab] OR "MSB 0010718C"[tiab] OR
"MSB-0010718C"[tiab] OR "pembrolizumab"[tiab] OR

"lambrolizumab"[tiab] OR "Keytruda"[tiab] OR
 "MK3475"[tiab] OR "MK 3475"[tiab] OR
 "durvalumab"[tiab] OR "MEDI4736"[tiab] OR "MEDI-
 4736"[tiab] OR "Imfinzi"[tiab] OR "CD273
 Antigen"[tiab] OR "PD L2 Ligand"[tiab] OR "PD-L2
 Ligand"[tiab] OR "B7 DC Ligand"[tiab] OR "B7 DC
 Antigen"[tiab] OR "B7-DC Ligand"[tiab] OR "B7-DC
 Antigen"[tiab]

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| 10 | <p> "CTLA-4 Antigen"[Mesh] OR "ErbB Receptors"[Mesh] OR "EGFR protein, human" [Supplementary Concept] OR "ErbB Receptors"[Mesh] OR "Anaplastic Lymphoma Kinase"[Mesh] OR "Proto-Oncogene Proteins B- raf"[Mesh] OR "Receptor, ErbB-2"[Mesh] OR "ERBB2 protein, human" [Supplementary Concept] OR "ROS1 protein, human" [Supplementary Concept] OR "RET protein, human"[Supplementary Concept] OR "Proto- Oncogene Proteins c-ret"[Mesh] OR "Proto-Oncogene Proteins c-met"[Mesh] OR "NTRK1 protein, human" [Supplementary Concept] OR "Ipilimumab"[Mesh] </p> | <p> NSCLC- specific immunotherapy terms </p> | 102 657 |
| 11 | <p> "CTLA-4"[tiab] OR "CTLA 4"[tiab] OR "CTLA 4 Antigen"[tiab] OR "Cytotoxic T-Lymphocyte-Associated Antigen 4"[tiab] OR "Cytotoxic T Lymphocyte Associated Antigen 4"[tiab] OR "CD152"[tiab] OR "CD152 Antigen"[tiab] OR "CD152 Protein"[tiab] OR "CTLA-4 Protein"[tiab] OR "CTLA 4 Protein"[tiab] OR "Cytotoxic T-Lymphocyte Antigen 4"[tiab] OR "Cytotoxic T Lymphocyte Antigen 4 "[tiab] OR "CTLA-4 </p> | 150 400 | |

Inhibitors"[tiab] OR "CTLA 4 Inhibitors"[tiab] OR
"CTLA-4 Inhibitor"[tiab] OR "CTLA 4 Inhibitor"[tiab]
OR "Cytotoxic T-Lymphocyte-Associated Protein 4
Inhibitors"[tiab] OR "Cytotoxic T Lymphocyte Associated
Protein 4 Inhibitors"[tiab] OR "Cytotoxic T-Lymphocyte-
Associated Protein 4 Inhibitor"[tiab] OR "Cytotoxic T
Lymphocyte Associated Protein 4 Inhibitor"[tiab] OR
"epidermal growth factor receptor"[tiab] OR "Epidermal
Growth Factor Receptor"[tiab] OR "EGFR"[tiab] OR "c-
erbB-1"[tiab] OR "erbB-1"[tiab] OR "v-erbB"[tiab] OR
"ALK Tyrosine Kinase Receptor"[tiab] OR "NPM-
ALK"[tiab] OR "Anaplastic Lymphoma Receptor
Tyrosine Kinase"[tiab] OR "Nucleophosmin-Anaplastic
Lymphoma Kinase"[tiab] OR "Nucleophosmin Anaplastic
Lymphoma Kinase"[tiab] OR "ALK Kinase"[tiab] OR
"Proto Oncogene Proteins B raf"[tiab] OR "BRAF"[tiab]
OR "BRAF Kinases"[tiab] OR "B-raf"[tiab] OR "B raf
Kinases"[tiab] OR "B-raf Kinase"[tiab] OR "B raf
Kinase"[tiab] OR "Proto-Oncogene Protein B-raf"[tiab]
OR "Proto Oncogene Protein B raf"[tiab] OR "ErbB-
2"[tiab] OR "CD340"[tiab] OR "Proto-Oncogene
Protein"[tiab] OR "HER-2"[tiab] OR "HER 2"[tiab] OR
"Neu Receptor"[tiab] OR "ROS1"[tiab] OR "RET"[tiab]
OR "Proto-Oncogene C-Ret"[tiab] OR "RET gene"[tiab]
OR "c-met"[tiab] OR "c met"[tiab] OR "met protein"[tiab]
OR "MET Receptor Tyrosine Kinase"[tiab] OR
"neurotrophic tyrosine receptor kinase"[tiab] OR

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|----|--|---|-----------|
| | "NTRK"[tiab] OR Ipilimumab[tiab] OR Yervoy[tiab] OR MDX 010[tiab] OR MDX010[tiab] OR "MDX CTLA 4"[tiab] | | |
| 12 | #8 OR #9 OR #10 OR #11 | | 708 828 |
| 13 | #3 AND #4 AND #7 AND #12 | | 260 |
| 14 | #13 NOT ("animals"[Mesh] NOT "humans"[Mesh]) | Excludes animal-only studies | 258 |
| 15 | ("Review"[Publication Type] OR "Editorial"[Publication Type] OR "biography"[Publication Type] OR "comment"[Publication Type] OR "directory"[Publication Type] OR "festschrift"[Publication Type] OR "interview"[Publication Type] OR "legislation"[Publication Type] OR "news"[Publication Type] OR "newspaper article"[Publication Type] OR "patient education handout"[Publication Type] OR "consensus development conference"[Publication Type] OR "consensus development conference, nih"[Publication Type]) | Publication types to be removed | 4 860 515 |
| 16 | ((("systematic"[tiab] OR "systematically"[tiab]) AND ("review"[tiab] OR "review"[tiab] OR "reviewing"[tiab])) OR "systematic"[sb] OR "Meta-Analysis"[Publication Type] OR "Meta analysis"[tiab] OR "Meta analyses"[tiab] OR "Meta-analysis"[tiab] OR "Meta-analyses"[tiab] OR "Meta-Analysis as topic"[Mesh]) | Retention of systematic reviews/ meta-analyses | 457 534 |
| 17 | #15 NOT #16 | | 463 515 |

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|----|------------------------------------|--------------|-----|
| 18 | #14 NOT #17 | | 132 |
| 19 | #18 AND (2012/1/1:3000/12/12[pat]) | NSCLC search | 194 |
| | | output | |

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Overview of search strategy and results from PubMed search for SCLC records.

| Search number | Query | Group | Number of records |
|---------------|--|--------------------|-------------------|
| 1 | "Carcinoembryonic Antigen"[Mesh] OR "antigen CYFRA21.1"[Supplementary Concept] OR "CA-125 Antigen"[Mesh] OR "squamous cell carcinoma-related antigen"[Supplementary Concept] OR "CA-19-9 Antigen"[Mesh] OR "Phosphopyruvate Hydratase"[Mesh] OR "pro-gastrin-releasing peptide (31- 98)"[Supplementary Concept] | Biomarker terms | 32 336 |
| 2 | "Carcinoembryonic Antigen"[tiab] OR "CEA"[tiab] OR "CD66e"[tiab] OR "CD66e"[tiab] OR "CYFRA21.1"[tiab] OR "CYFRA 21-1"[tiab] OR "CYFRA 21.1"[tiab] OR "Cyfra 21-1"[tiab] OR "Cyfra21·1"[tiab] OR "Cyfra21- 1"[tiab] OR "CA-125"[tiab] OR "CA 125"[tiab] OR "Mucin-16"[tiab] OR "Mucin 16"[tiab] OR "CA 15.3"[tiab] OR "CA-15-3"[tiab] OR "CA 15 3"[tiab] OR "CA15.3"[tiab] OR "CA15-3"[tiab] OR "CA15 3"[tiab] OR "cancer antigen 125"[tiab] OR "CA125"[tiab] OR "CD227 "[tiab] OR "CA 15-3 Antigen"[tiab] OR "CA 15 3 Antigen"[tiab] OR "SCC-Ag"[tiab] OR "squamous cell carcinoma antigen"[tiab] OR "SCC antigen"[tiab] OR "squamous cell carcinoma antigen 2"[tiab] OR "squamous cell carcinoma antigen 1"[tiab] OR "SCCA"[tiab] OR "SERPINB4"[tiab] OR "CA-19-9"[tiab] OR "CA 19 | | 56 516 |

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| | 9"[tiab] OR "CA 19-9"[tiab] OR "CA 19-9 Antigen"[tiab] OR "CA 19.9 Antigen"[tiab] OR "Antigen CA-19-9"[tiab] OR "Antigen CA 19 9"[tiab] OR "NSE"[tiab] OR "Nervous System-Specific Enolase"[tiab] OR "Nervous System Specific Enolase"[tiab] OR "Neuron-Specific Enolase"[tiab] OR "Neuron Specific Enolase"[tiab] OR "ProGRP"[tiab] OR "HE4"[tiab] OR "anti-p53"[tiab] OR "antip53"[tiab] | | |
| 3 | #1 OR #2 | | 66 526 |
| 4 | "Small Cell Lung Carcinoma"[Mesh] OR "Small Cell Lung Carcinoma/blood"[Mesh] OR "small cell lung carcinoma"[tiab] OR "small-cell lung carcinoma"[tiab] OR "oat cell lung carcinoma"[tiab] OR "small cell lung cancer"[tiab] OR "small-cell lung cancer"[tiab] OR "oat cell lung cancer"[tiab] OR "SCLC"[tiab] | SCLC terms | 90 996 |
| 5 | "Response Evaluation Criteria in Solid Tumors"[Mesh] OR "Tomography, X-Ray Computed"[Mesh] OR "Positron-Emission Tomography"[Mesh] OR "Blood"[Mesh] OR "Prognosis"[Mesh] OR "Disease Progression"[Mesh] OR "Recurrence"[Mesh] OR "Biomarkers, Tumor/blood"[Mesh] OR "Lung Neoplasms/blood"[Mesh] | Core terms | 3 721 115 |
| 6 | "advanced"[tiab] OR "advanced stage"[tiab] OR "blood"[tiab] OR "blood based"[tiab] OR "blood- based"[tiab] OR "CAT Scan"[tiab] OR "computed tomography"[tiab] OR "Computed X Ray | | 7 731 099 |

Tomography"[tiab] OR "Computed X-Ray
Tomography"[tiab] OR "CT"[tiab] OR "CT scan"[tiab]
OR "CT X Ray"[tiab] OR "CT X Rays"[tiab] OR
"Electron Beam Computed Tomography"[tiab] OR
"Electron Beam Tomography"[tiab] OR
"Exacerbation"[tiab] OR "extensive disease"[tiab] OR
"first cycle"[tiab] OR "first line"[tiab] OR "first-line"[tiab]
OR "iRECIST"[tiab] OR "late stage"[tiab] OR "late-
stage"[tiab] OR "longitudinal"[tiab] OR "metastatic"[tiab]
OR "mNSCLC"[tiab] OR "monitor"[tiab] OR
"monitoring"[tiab] OR "mSCLC"[tiab] OR "PET"[tiab]
OR "PET Imaging"[tiab] OR "PET Scan"[tiab] OR "PET
Scans"[tiab] OR "PET/CT"[tiab] OR "plasma"[tiab] OR
"Positron Emission Tomography"[tiab] OR "Positron
Emission Tomography Imaging"[tiab] OR "Positron-
Emission Tomography Imaging"[tiab] OR
"prediction"[tiab] OR "predictive"[tiab] OR
"prognosis"[tiab] OR "Prognostic"[tiab] OR
"progression"[tiab] OR "progressive disease"[tiab] OR
"protein biomarker"[tiab] OR "RECIST"[tiab] OR
"Recrudescence"[tiab] OR "Recrudescences"[tiab] OR
"recurrence"[tiab] OR "Recurrences"[tiab] OR
"relapse"[tiab] OR "Relapses "[tiab] OR "Response
Evaluation Criteria in Solid Tumors"[tiab] OR "Response
Evaluation Criteria in Solid Tumours"[tiab] OR
"serum"[tiab] OR "stable"[tiab] OR "stage 3"[tiab] OR
"stage 4"[tiab] OR "stage III"[tiab] OR "stage IV"[tiab]

OR "Tomodensitometry"[tiab] OR "Transmission
 Computed Tomography"[tiab] OR "X Ray Computer
 Assisted Tomography"[tiab] OR "X Ray Computerized
 Axial Tomography"[tiab] OR "X Ray Computerized
 Tomography"[tiab] OR "X-Ray CAT Scan"[tiab] OR
 "Xray Computed Tomography"[tiab] OR "X-Ray
 Computed Tomography"[tiab] OR "X-Ray Computer
 Assisted Tomography"[tiab] OR "X-Ray Computerized
 Axial Tomography"[tiab] OR "X-Ray Computerized
 Tomography"[tiab] OR "X-Ray CT Scan"[tiab] OR "X-
 Ray CT Scans"[tiab]

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|---|---|--|-----------|
| 7 | #5 OR #6 | | 9 557 379 |
| 8 | <p>"Immunotherapy"[Mesh] OR "B7-H1 Antigen"[Mesh] OR "Programmed Cell Death 1 Receptor"[Mesh] OR "Immune Checkpoint Inhibitors"[Mesh] OR "Molecular Targeted Therapy"[Mesh] OR "Protein-Tyrosine Kinases/antagonists and inhibitors"[Mesh] OR "Protein Kinase Inhibitors"[Mesh] OR "Nivolumab"[Mesh] OR "cemiplimab" [Supplementary Concept] OR "dostarlimab" [Supplementary Concept] OR "atezolizumab" [Supplementary Concept] OR "avelumab" [Supplementary Concept] OR "pembrolizumab" [Supplementary Concept] OR "durvalumab" [Supplementary Concept] OR "Programmed Cell Death 1 Ligand 2 Protein"[Mesh]</p> | <p>General immunotherapy terms</p> | 450 691 |
| 9 | <p>"Immunotherapy"[tiab] OR "Immunotherapies"[tiab] OR "B7-H1"[tiab] OR "B7 H1"[tiab] OR "Programmed Death</p> | | 234 155 |

Ligand 1"[tiab] OR "Programmed Cell Death 1 Ligand 2 Protein"[Mesh] OR "CD274"[tiab] OR "CD274"[tiab] OR "B7H1"[tiab] OR "PD-L1"[tiab] OR "PD L1"[tiab] OR "Programmed Cell Death 1 Ligand 1 Protein"[tiab] OR "PD-L1 Protein"[tiab] OR "PD L1 Protein"[tiab] OR "Programmed Cell Death 1 Ligand 1"[tiab] OR "PD-1 Protein"[tiab] OR "PD 1 Protein"[tiab] OR "PD-1 Receptor"[tiab] OR "PD 1 Receptor"[tiab] OR "CD279"[tiab] OR "PD1 Receptor"[tiab] OR "Programmed Cell Death Protein 1"[tiab] OR "Programmed Cell Death 1 Protein"[tiab] OR "PD-L1"[tiab] OR "PDL1"[tiab] OR "PD-1"[tiab] OR "PD1"[tiab] OR "Immune Checkpoint Inhibitor"[tiab] OR "Immune Checkpoint Inhibitors"[tiab] OR "Immune Checkpoint Blockers"[tiab] OR "Immune Checkpoint Blockade"[tiab] OR "Immune Checkpoint Inhibition"[tiab] OR "PD-L1 Inhibitors"[tiab] OR "PD L1 Inhibitors"[tiab] OR "PD-L1 Inhibitor"[tiab] OR "PD L1 Inhibitor"[tiab] OR "Programmed Death-Ligand 1 Inhibitors"[tiab] OR "Programmed Death Ligand 1 Inhibitors"[tiab] OR "PD-1-PD-L1 Blockade"[tiab] OR "PD 1 PD L1 Blockade"[tiab] OR "PD-1 Inhibitors"[tiab] OR "PD 1 Inhibitors"[tiab] OR "PD-1 Inhibitor"[tiab] OR "PD 1 Inhibitor"[tiab] OR "Programmed Cell Death Protein 1 Inhibitor"[tiab] OR "Programmed Cell Death Protein 1 Inhibitor"[tiab] OR "Molecular Targeted Therapies"[tiab] OR "Targeted Molecular Therapy"[tiab]

OR "Targeted Molecular Therapies"[tiab] OR "Targeted Therapies"[tiab] OR "Targeted Therapy"[tiab] OR "tyrosine kinase inhibitor"[tiab] OR "tyrosine kinase inhibitors"[tiab] OR "TKI"[tiab] OR "TKIs"[tiab] OR "TKI therapy"[tiab] OR "TKI therapies"[tiab] OR "nivolumab"[tiab] OR "ONO 4538"[tiab] OR "ONO4538"[tiab] OR "ONO-4538"[tiab] OR "BMS-936558"[tiab] OR "BMS936558"[tiab] OR "BMS 936558"[tiab] OR "MDX-1106"[tiab] OR "MDX1106"[tiab] OR "MDX 1106"[tiab] OR "opdivo"[tiab] OR cemiplimab[tiab] OR "REGN2810"[tiab] OR "dostarlimab"[tiab] OR "GSK4057190"[tiab] OR "TSR-042"[tiab] OR "Atezolizumab"[tiab] OR "Tecentriq"[tiab] OR "MPDL3280A"[tiab] OR "MPDL-3280A"[tiab] OR "MPDL 3280A"[tiab] OR "MDPL3280A"[tiab] OR "MDPL-3280A"[tiab] OR "MDPL 3280A"[tiab] OR "RO5541267"[tiab] OR "RO-5541267"[tiab] OR "RO 5541267"[tiab] OR "RG-7446"[tiab] OR "RG7446"[tiab] OR "RG 7446"[tiab] OR "Avelumab"[tiab] OR "MSB0010718C"[tiab] OR "MSB 0010718C"[tiab] OR "MSB-0010718C"[tiab] OR "pembrolizumab"[tiab] OR "lambrolizumab"[tiab] OR "Keytruda"[tiab] OR "MK3475"[tiab] OR "MK 3475"[tiab] OR "durvalumab"[tiab] OR "MEDI4736"[tiab] OR "MEDI-4736"[tiab] OR "Imfinzi"[tiab] OR "CD273 Antigen"[tiab] OR "PD L2 Ligand"[tiab] OR "PD-L2

Ligand"[tiab] OR "B7 DC Ligand"[tiab] OR "B7 DC
Antigen"[tiab] OR "B7-DC Ligand"[tiab] OR "B7-DC
Antigen"[tiab]

- 10 "Checkpoint Kinase 1"[Mesh] OR "CHEK1 protein,
human" [Supplementary Concept] OR "Poly(ADP-ribose)
Polymerases"[Mesh] OR "Ataxia Telangiectasia Mutated
Proteins"[Mesh] OR "ATR protein,
human"[Supplementary Concept] OR "WEE1 protein,
human" [Supplementary Concept] OR "Cyclin-Dependent
Kinase 4"[Mesh] OR "Cyclin-Dependent Kinase 6"[Mesh]
OR "Aurora Kinase A"[Mesh] OR "AURKB protein,
human"[Supplementary Concept] OR "Hepatocyte Growth
Factor"[Mesh] OR "HGF protein, human" [Supplementary
Concept] SCLC-specific immunotherapy terms 35 399
- 11 "Chk1 Kinase"[tiab] OR "Chk1 Protein Kinase"[tiab] OR
"Checkpoint-1 Kinase"[tiab] OR "hChk1 "[tiab] OR
"CHK1"[tiab] OR "CHK1 "[tiab] OR "checkpoint kinase
1"[tiab] OR "poly ADP ribose polymerase"[tiab] OR
"ADP-Ribosyltransferase (Polymerizing)"[tiab] OR
"Poly(ADP-ribose) Polymerase"[tiab] OR "Poly ADP
Ribose Polymerase"[tiab] OR "Poly(ADP-Ribose)
Transferase"[tiab] OR "Poly(ADP-Ribose) Synthase"[tiab]
OR "PARP"[tiab] OR "Poly(ADPribose)
Polymerase"[tiab] OR "Poly ADP-Ribose Synthase"[tiab]
OR "Poly ADP Ribose Synthase"[tiab] OR "Poly(ADPR)
Polymerase"[tiab] OR "Poly ADP Ribose
Transferase"[tiab] OR "A-T"[tiab] OR "A T Protein"[tiab] 107 060

OR "AT Mutated Protein"[tiab] OR "ATM Protein"[tiab]
 OR "WEE1"[tiab] OR "Cyclin-Dependent Kinase 4"[tiab]
 OR "Cyclin Dependent Kinase 4"[tiab] OR "Cdk4 Cyclin-
 Dependent Kinase"[tiab] OR "Cdk4 Cyclin Dependent
 Kinase"[tiab] OR "Cdk4"[tiab] OR "Cdk4 Protein
 Kinase"[tiab] OR "Cell Division Protein Kinase 4"[tiab]
 OR "Cyclin D-Dependent Kinase CDK4"[tiab] OR
 "Cyclin D Dependent Kinase CDK4"[tiab] OR "Cyclin-
 Dependent Kinase 6"[tiab] OR "Cyclin Dependent Kinase
 6"[tiab] OR "Cell Division Protein Kinase 6"[tiab] OR
 "Cdk6 Protein Kinase"[tiab] OR "CDK6 Protein"[tiab] OR
 "PLSTIRE Protein"[tiab] OR "Aurora A"[tiab] OR
 "Aurora A Kinases"[tiab] OR "AURKA"[tiab] OR
 "Aurora A Kinase"[tiab] OR "Serine-Threonine Protein
 Kinase 15"[tiab] OR "Serine Threonine Protein Kinase
 15"[tiab] OR "AURORA2 Protein"[tiab] OR "AuroraA
 Kinase"[tiab] OR "Breast-Tumor-Amplified Kinase"[tiab]
 OR "Breast Tumor Amplified Kinase"[tiab] OR
 "BTAK"[tiab] OR "STK15 Kinase"[tiab] OR "Aurora
 Kinases A"[tiab] OR "Aurora-A Kinase"[tiab] OR
 "ARK2"[tiab] OR "aurora kinase B"[tiab] OR "STK12
 protein"[tiab] OR "aurora B kinase"[tiab] OR "Hepatocyte
 Growth Factor"[tiab] OR "Hepatopoietin"[tiab] OR
 "Hepatopoietin A"[tiab]

| | | |
|----|--------------------------|---------|
| 12 | #8 OR #9 OR #10 OR #11 | 688 103 |
| 13 | #3 AND #4 AND #7 AND #12 | 193 |

| | | | |
|----|--|---|-----------|
| 14 | #13 NOT ("animals"[Mesh] NOT "humans"[Mesh]) | Excludes animal-only studies | 192 |
| 15 | ("Review"[Publication Type] OR "Editorial"[Publication Type] OR "biography"[Publication Type] OR "comment"[Publication Type] OR "directory"[Publication Type] OR "festschrift"[Publication Type] OR "interview"[Publication Type] OR "legislation"[Publication Type] OR "news"[Publication Type] OR "newspaper article"[Publication Type] OR "patient education handout"[Publication Type] OR "consensus development conference"[Publication Type] OR "consensus development conference, nih"[Publication Type]) | Publication types to be removed | 4 861 213 |
| 16 | ((("systematic"[tiab] OR "systematically"[tiab]) AND ("review"[tiab] OR "review"[tiab] OR "reviewing"[tiab])) OR "systematic"[sb] OR "Meta-Analysis"[Publication Type] OR "Meta analysis"[tiab] OR "Meta analyses"[tiab] OR "Meta-analysis"[tiab] OR "Meta-analyses"[tiab] OR "Meta-Analysis as topic"[Mesh]) | Retention of systematic reviews/ meta-analyses | 457 702 |
| 17 | #15 NOT #16 | | 4 636 158 |
| 18 | #14 NOT #17 | | 176 |
| 19 | #18 AND (2012/1/1:3000/12/12[pdat]) | SCLC search output | 145 |

Overview of search strategy and results from Cochrane search for NSCLC records.

| Search number | Query | Group | Number of records |
|---------------|--|-----------|-------------------|
| 1 | "Carcinoembryonic Antigen"[Mesh] | Biomarker | 172 |
| 2 | "CA-125 Antigen"[Mesh] | terms | 165 |
| 3 | "CA-19-9 Antigen"[Mesh] | | 45 |
| 4 | "Phosphopyruvate Hydratase"[Mesh] | | 125 |
| 5 | ("Carcinoembryonic Antigen" OR "CEA" OR "CD66e" OR "CD66e" OR "CYFRA21.1" OR "CYFRA 21-1" OR "CYFRA 21.1" OR "Cyfra 21-1" OR "Cyfra21·1" OR "Cyfra21-1" OR "CA-125" OR "CA 125" OR "Mucin-16" OR "Mucin 16" OR "CA 15.3" OR "CA-15-3" OR "CA 15 3" OR "CA15.3" OR "CA15-3" OR "CA15 3" OR "cancer antigen 125" OR "CA125" "CD227 " OR "CA 15-3 Antigen" OR "CA 15 3 Antigen" OR "SCC-Ag" OR "squamous cell carcinoma antigen" OR "SCC antigen" OR "squamous cell carcinoma antigen" OR "SCCA" OR "SERPINB4" OR "CA-19-9" OR "CA 19 9" OR "CA 19-9" OR "CA 19-9 Antigen" OR "CA 19.9 Antigen" OR "Antigen CA-19-9" OR "Antigen CA 19 9" OR "NSE" OR "Nervous System-Specific Enolase" OR "Nervous System Specific Enolase" OR "Neuron-Specific Enolase" OR "Neuron Specific Enolase" OR "ProGRP" OR "HE4" OR "anti-p53" OR "antip53"):ti,ab | | 3,371 |

| | | | |
|----|--|-------------|---------|
| 6 | #1 OR #2 OR #3 OR #4 OR #5 | | 3,482 |
| 7 | Mesh descriptor: [Carcinoma, Non-Small-Cell Lung] | NSCLC terms | 4,766 |
| | explode all trees | | |
| 8 | "Carcinoma, Non-Small-Cell Lung/blood"[Mesh] | | 61 |
| 9 | ("Non-Small-Cell Lung Carcinomas" OR "Nonsmall Cell Lung Cancer" OR "Non-Small-Cell Lung Carcinoma" OR "Non Small Cell Lung Carcinoma" OR "Non-Small Cell Lung Cancer" OR "Non-Small-Cell Lung Cancer" OR "NSCLC" OR "Nonsmall Cell Lung Carcinoma"):ti,ab | | 14 207 |
| 10 | #7 OR #8 OR #9 | | 14 577 |
| 11 | "Response Evaluation Criteria in Solid Tumors"[Mesh] | Core terms | 86 |
| 12 | "Tomography, X-Ray Computed"[Mesh] | | 5,488 |
| 13 | "Positron-Emission Tomography"[Mesh] | | 1,126 |
| 14 | "Blood"[Mesh] | | 16 618 |
| 15 | "Prognosis"[Mesh] | | 167 455 |
| 16 | "Disease Progression"[Mesh] | | 7,917 |
| 17 | "Recurrence"[Mesh] | | 12 761 |
| 18 | "Biomarkers, Tumor/blood"[Mesh] | | 1,924 |
| 19 | "Lung Neoplasms/blood"[Mesh] | | 167 |
| 20 | ("advanced" OR "advanced stage" OR "blood" OR "blood based" OR "blood-based" OR "CAT Scan" OR "computed tomography" OR "Computed X Ray Tomography" OR "Computed X-Ray Tomography" OR "CT" OR "CT scan" OR "CT X Ray" OR "CT X Rays" OR "Electron Beam | | 935 650 |

Computed Tomography" OR "Electron Beam
Tomography" OR "Exacerbation" OR "extensive disease"
OR "first cycle" OR "first line" OR "first-line" OR
"iRECIST" OR "late stage" OR "late-stage" OR
"longitudinal" OR "metastatic" OR "mNSCLC" OR
"monitor" OR "monitoring" OR "mSCLC" OR "PET" OR
"PET Imaging" OR "PET Scan" OR "PET Scans" OR
"PET/CT" OR "PET-CT" OR "plasma" OR "Positron
Emission Tomography" OR "Positron Emission
Tomography Imaging" OR "Positron-Emission
Tomography Imaging" OR "prediction" OR "predictive"
OR "prognosis" OR "Prognostic" OR "progression" OR
"progressive disease" OR "protein biomarker" OR
"RECIST" OR "Recrudescence" OR "Recrudescences"
OR "recurrence" OR "Recurrences" OR "relapse" OR
"Relapses " OR "Response Evaluation Criteria in Solid
Tumors" OR "Response Evaluation Criteria in Solid
Tumours" OR "serum" OR "stable" OR "stage 3" OR
"stage 4" OR "stage III" OR "stage IV" OR
"Tomodensitometry" OR "Transmission Computed
Tomography" OR "X Ray Computer Assisted
Tomography" OR "X Ray Computerized Axial
Tomography" OR "X Ray Computerized Tomography"
OR "X-Ray CAT Scan" OR "Xray Computed
Tomography" OR "X-Ray Computed Tomography" OR
"X-Ray Computer Assisted Tomography" OR "X-Ray
Computerized Axial Tomography" OR "X-Ray

| | | | |
|----|---|---------------|-----------|
| | Computerized Tomography" OR "X-Ray CT Scan" OR "X-Ray CT Scans") | | |
| 21 | #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 | | 1 010 611 |
| 22 | Mesh descriptor: [Immunotherapy] explode all trees | General | 8,657 |
| 23 | Mesh descriptor: [B7-H1 Antigen] explode all trees | immunotherapy | 129 |
| 24 | Mesh descriptor: [Programmed Cell Death 1 Receptor] explode all trees | terms | 102 |
| 25 | Mesh descriptor: [Immune Checkpoint Inhibitors] explode all trees | | 70 |
| 26 | Mesh descriptor: [Molecular Targeted Therapy] explode all trees | | 159 |
| 27 | "Protein-Tyrosine Kinases/antagonists and inhibitors"[Mesh] | | 802 |
| 28 | "Protein Kinase Inhibitors"[Mesh] | | 1,093 |
| 29 | "Nivolumab"[Mesh] | | 583 |
| 30 | "Programmed Cell Death 1 Ligand 2 Protein"[Mesh] | | 3 |
| 31 | ("Immunotherapy" OR "Immunotherapies" OR "B7-H1" OR "B7 H1" OR "Programmed Death Ligand 1" OR "Programmed Cell Death 1 Ligand 2 Protein"[Mesh] OR "CD274" OR "CD274" OR "B7H1" OR "PD-L1" OR "PD L1" OR "Programmed Cell Death 1 Ligand 1 Protein" OR "PD-L1 Protein" OR "PD L1 Protein" OR "Programmed Cell Death 1 Ligand 1" OR "PD-1 Protein" OR "PD 1 | | 20 869 |

Protein" OR "PD-1 Receptor" OR "PD 1 Receptor" OR
"CD279" OR "PD1 Receptor" OR "Programmed Cell
Death Protein 1" OR "Programmed Cell Death 1 Protein"
OR "PD-L1" OR "PDL1" OR "PD-1" OR "PD1" OR
"Immune Checkpoint Inhibitor" OR "Immune Checkpoint
Inhibitors" OR "Immune Checkpoint Blockers" OR
"Immune Checkpoint Blockade" OR "Immune Checkpoint
Inhibition" OR "PD-L1 Inhibitors" OR "PD L1 Inhibitors"
OR "PD-L1 Inhibitor" OR "PD L1 Inhibitor" OR
"Programmed Death-Ligand 1 Inhibitors" OR
"Programmed Death Ligand 1 Inhibitors" OR "PD-1-PD-
L1 Blockade" OR "PD 1 PD L1 Blockade" OR "PD-1
Inhibitors" OR "PD 1 Inhibitors" OR "PD-1 Inhibitor" OR
"PD 1 Inhibitor" OR "Programmed Cell Death Protein 1
Inhibitor" OR "Programmed Cell Death Protein 1
Inhibitor" OR "Molecular Targeted Therapies" OR
"Targeted Molecular Therapy" OR "Targeted Molecular
Therapies" OR "Targeted Therapies" OR "Targeted
Therapy" OR "tyrosine kinase inhibitor" OR "tyrosine
kinase inhibitors" OR "TKI" OR "TKIs" OR "TKI
therapy" OR "TKI therapies" OR "nivolumab" OR "ONO
4538" OR "ONO4538" OR "ONO-4538" OR "BMS-
936558" OR "BMS936558" OR "BMS 936558" OR
"MDX-1106" OR "MDX1106" OR "MDX 1106" OR
"opdivo" OR "cemiplimab" OR "REGN2810" OR
"dostarlimab" OR "GSK4057190" OR "TSR-042" OR
"Atezolizumab" OR "Tecentriq" OR "MPDL3280A" OR

"MPDL-3280A" OR "MPDL 3280A" OR "MDPL3280A"
 OR "MDPL-3280A" OR "MDPL 3280A" OR
 "RO5541267" OR "RO-5541267" OR "RO 5541267" OR
 "RG-7446" OR "RG7446" OR "RG 7446" OR
 "Avelumab" OR "MSB0010718C" OR "MSB 0010718C"
 OR "MSB-0010718C" OR "pembrolizumab" OR
 "lambrolizumab" OR "Keytruda" OR "MK3475" OR
 "MK 3475" OR "durvalumab" OR "MEDI4736" OR
 "MEDI-4736" OR "Imfinzi" OR "CD273 Antigen" OR
 "PD L2 Ligand" OR "PD-L2 Ligand" OR "B7 DC
 Ligand" OR "B7 DC Antigen" OR "B7-DC Ligand" OR
 "B7-DC Antigen"):ti,ab

| | | | |
|----|---|------------------------|--------|
| 32 | #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 | | 28 975 |
| 33 | Mesh descriptor: [CTLA-4 Antigen] explode all trees | NSCLC- | 51 |
| 34 | Mesh descriptor: [ErbB Receptors] explode all trees | specific | 1,527 |
| 35 | Mesh descriptor: [Anaplastic Lymphoma Kinase] explode all trees | immunotherapy terms | 62 |
| 36 | Mesh descriptor: [Proto-Oncogene Proteins B-raf] explode all trees | | 185 |
| 37 | Mesh descriptor: [Receptor, ErbB-2] explode all trees | | 992 |
| 38 | Mesh descriptor: [Proto-Oncogene Proteins c-ret] explode all trees | | 11 |
| 39 | Mesh descriptor: [Proto-Oncogene Proteins c-met] explode all trees | | 39 |

| | | |
|----|--|--------|
| 40 | "Ipilimumab"[Mesh] | 260 |
| 41 | ("CTLA-4" OR "CTLA 4" OR "CTLA 4 Antigen" OR "Cytotoxic T-Lymphocyte-Associated Antigen 4" OR "Cytotoxic T Lymphocyte Associated Antigen 4" OR "CD152" OR "CD152 Antigen" OR "CD152 Protein" OR "CTLA-4 Protein" OR "CTLA 4 Protein" OR "Cytotoxic T-Lymphocyte Antigen 4" OR "Cytotoxic T Lymphocyte Antigen 4 " OR "CTLA-4 Inhibitors" OR "CTLA 4 Inhibitors" OR "CTLA-4 Inhibitor" OR "CTLA 4 Inhibitor" OR "Cytotoxic T-Lymphocyte-Associated Protein 4 Inhibitors" OR "Cytotoxic T Lymphocyte Associated Protein 4 Inhibitors" OR "Cytotoxic T- Lymphocyte-Associated Protein 4 Inhibitor" OR "Cytotoxic T Lymphocyte Associated Protein 4 Inhibitor" OR "epidermal growth factor receptor" OR "Epidermal Growth Factor Receptor" OR "EGFR" OR "c-erbB-1" OR "erbB-1" OR "v-erbB" OR "ALK Tyrosine Kinase Receptor" OR "NPM-ALK" OR "Anaplastic Lymphoma Receptor Tyrosine Kinase" OR "Nucleophosmin- Anaplastic Lymphoma Kinase" OR "Nucleophosmin Anaplastic Lymphoma Kinase" OR "ALK Kinase" OR "Proto Oncogene Proteins B raf" OR "BRAF" OR "BRAF Kinases" OR "B-raf" OR "B raf Kinases" OR "B-raf Kinase" OR "B raf Kinase" OR "Proto-Oncogene Protein B-raf" OR "Proto Oncogene Protein B raf" OR "ErbB-2" OR "CD340" OR "Proto-Oncogene Protein" OR "HER-2" OR "HER 2" OR "Neu Receptor" OR "ROS1" OR "RET" | 16 963 |

OR "Proto-Oncogene C-Ret" OR "RET gene" OR "c-met"
OR "c met" OR "met protein" OR " MET Receptor
Tyrosine Kinase" OR "neurotrophic tyrosine receptor
kinase" OR "NTRK" OR "Ipilimumab" OR "Yervoy" OR
"MDX 010" OR "MDX010" OR "MDX CTLA 4");ti,ab

42 #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR 17 681
#40 OR #41

43 #6 AND #10 AND #21 AND (#32 OR #42) with NSCLC search 17
Publication Year from 2012 to 2022, in Trials output

Appendix 4

Overview of search strategy and results from Cochrane search for SCLC records.

| Search number | Query | Group | Number of records |
|---------------|---|-----------|-------------------|
| 1 | "Carcinoembryonic Antigen"[Mesh] | Biomarker | 172 |
| 2 | "CA-125 Antigen"[Mesh] | terms | 165 |
| 3 | "CA-19-9 Antigen"[Mesh] | | 45 |
| 4 | "Phosphopyruvate Hydratase"[Mesh] | | 125 |
| 5 | ("Carcinoembryonic Antigen" OR "CEA" OR "CD66e" OR "CD66e" OR "CYFRA21.1" OR "CYFRA 21-1" OR "CYFRA 21.1" OR "Cyfra 21-1" OR "Cyfra21·1" OR "Cyfra21-1" OR "CA-125" OR "CA 125" OR "Mucin-16" OR "Mucin 16" OR "CA 15.3" OR "CA-15-3" OR "CA 15 3" OR "CA15.3" OR "CA15-3" OR "CA15 3" OR "cancer antigen 125" OR "CA125" "CD227 " OR "CA 15-3 Antigen" OR "CA 15 3 Antigen" OR "SCC-Ag" OR "squamous cell carcinoma antigen" OR "SCC antigen" OR "squamous cell carcinoma antigen" OR "SCCA" OR "SERPINB4" OR "CA-19-9" OR "CA 19 9" OR "CA 19-9" OR "CA 19-9 Antigen" OR "CA 19.9 Antigen" OR "Antigen CA-19-9" OR "Antigen CA 19 9" OR "NSE" OR "Nervous System-Specific Enolase" OR "Nervous System Specific Enolase" OR "Neuron-Specific Enolase" OR "Neuron | | 3,371 |

| | | | |
|----|--|------------|---------|
| | Specific Enolase" OR "ProGRP" OR "HE4" OR "anti-p53" OR "antip53"):ti,ab | | |
| 6 | #1 OR #2 OR #3 OR #4 OR #5 OR #6 | | 3,482 |
| 7 | "Small Cell Lung Carcinoma"[Mesh] | SCLC terms | 455 |
| 8 | "Small Cell Lung Carcinoma/blood"[Mesh] | | 7 |
| 9 | ("small cell lung carcinoma" OR "small-cell lung carcinoma" OR "oat cell lung carcinoma" OR "small cell lung cancer" OR "small-cell lung cancer" OR "oat cell lung cancer" OR "SCLC"):ti,ab | | 14 182 |
| 10 | #7 OR #8 OR #9 | | 14 231 |
| 11 | "Response Evaluation Criteria in Solid Tumors"[Mesh] | Core terms | 86 |
| 12 | "Tomography, X-Ray Computed"[Mesh] | | 5,488 |
| 13 | "Positron-Emission Tomography"[Mesh] | | 1,126 |
| 14 | "Blood"[Mesh] | | 16 618 |
| 15 | "Prognosis"[Mesh] | | 167 455 |
| 16 | "Disease Progression"[Mesh] | | 7 917 |
| 17 | "Recurrence"[Mesh] | | 12 761 |
| 18 | "Biomarkers, Tumor/blood"[Mesh] | | 1,924 |
| 19 | "Lung Neoplasms/blood"[Mesh] | | 167 |
| 20 | "advanced" OR "advanced stage" OR "blood" OR "blood based" OR "blood-based" OR "CAT Scan" OR "computed tomography" OR "Computed X Ray Tomography" OR | | 935 650 |

"Computed X-Ray Tomography" OR "CT" OR "CT scan"
OR "CT X Ray" OR "CT X Rays" OR "Electron Beam
Computed Tomography" OR "Electron Beam Tomography"
OR "Exacerbation" OR "extensive disease" OR "first cycle"
OR "first line" OR "first-line" OR "iRECIST" OR "late
stage" OR "late-stage" OR "longitudinal" OR "metastatic"
OR "mNSCLC" OR "monitor" OR "monitoring" OR
"mSCLC" OR "PET" OR "PET Imaging" OR "PET Scan"
OR "PET Scans" OR "PET/CT" OR "plasma" OR "Positron
Emission Tomography" OR "Positron Emission
Tomography Imaging" OR "Positron-Emission Tomography
Imaging" OR "prediction" OR "predictive" OR "prognosis"
OR "Prognostic" OR "progression" OR "progressive
disease" OR "protein biomarker" OR "RECIST" OR
"Recrudescence" OR "Recrudescences" OR "recurrence" OR
"Recurrences" OR "relapse" OR "Relapses" OR "Response
Evaluation Criteria in Solid Tumors" OR "Response
Evaluation Criteria in Solid Tumours" OR "serum" OR
"stable" OR "stage 3" OR "stage 4" OR "stage III" OR "stage
IV" OR "Tomodensitometry" OR "Transmission Computed
Tomography" OR "X Ray Computer Assisted Tomography"
OR "X Ray Computerized Axial Tomography" OR "X Ray
Computerized Tomography" OR "X-Ray CAT Scan" OR
"Xray Computed Tomography" OR "X-Ray Computed
Tomography" OR "X-Ray Computer Assisted Tomography"

| | | | |
|----|---|---------------|-----------|
| | OR "X-Ray Computerized Axial Tomography" OR "X-Ray Computerized Tomography" OR "X-Ray CT Scan" OR "X- Ray CT Scans" | | |
| 21 | #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 | | 1 010 611 |
| 22 | Mesh descriptor: [Immunotherapy] explode all trees | General | 8,657 |
| 23 | Mesh descriptor: [B7-H1 Antigen] explode all trees | immunotherapy | 129 |
| 24 | Mesh descriptor: [Programmed Cell Death 1 Receptor] explode all trees | terms | 102 |
| 25 | Mesh descriptor: [Immune Checkpoint Inhibitors] explode all trees | | 70 |
| 26 | Mesh descriptor: [Molecular Targeted Therapy] explode all trees | | 159 |
| 27 | "Protein-Tyrosine Kinases/antagonists and inhibitors"[Mesh] | | 802 |
| 28 | "Protein Kinase Inhibitors"[Mesh] | | 1,093 |
| 29 | "Nivolumab"[Mesh] | | 583 |
| 30 | "Programmed Cell Death 1 Ligand 2 Protein"[Mesh] | | 3 |
| 31 | ("Immunotherapy" OR "Immunotherapies" OR "B7-H1" OR "B7 H1" OR "Programmed Death Ligand 1" OR "CD274" OR "CD274" OR "B7H1" OR "PD-L1" OR "PD L1" OR "Programmed Cell Death 1 Ligand 1 Protein" OR "PD-L1 Protein" OR "PD L1 Protein" OR "Programmed Cell Death 1 Ligand 1" OR "PD-1 Protein" OR "PD 1 Protein" OR "PD- | | 20 869 |

1 Receptor" OR "PD 1 Receptor" OR "CD279" OR "PD1
Receptor" OR "Programmed Cell Death Protein 1" OR
"Programmed Cell Death 1 Protein" OR "PD-L1" OR
"PDL1" OR "PD-1" OR "PD1" OR "Immune Checkpoint
Inhibitor" OR "Immune Checkpoint Inhibitors" OR
"Immune Checkpoint Blockers" OR "Immune Checkpoint
Blockade" OR "Immune Checkpoint Inhibition" OR "PD-L1
Inhibitors" OR "PD L1 Inhibitors" OR "PD-L1 Inhibitor"
OR "PD L1 Inhibitor" OR "Programmed Death-Ligand 1
Inhibitors" OR "Programmed Death Ligand 1 Inhibitors" OR
"PD-1-PD-L1 Blockade" OR "PD 1 PD L1 Blockade" OR
"PD-1 Inhibitors" OR "PD 1 Inhibitors" OR "PD-1 Inhibitor"
OR "PD 1 Inhibitor" OR "Programmed Cell Death Protein 1
Inhibitor" OR "Programmed Cell Death Protein 1 Inhibitor"
OR "Molecular Targeted Therapies" OR "Targeted
Molecular Therapy" OR "Targeted Molecular Therapies"
OR "Targeted Therapies" OR "Targeted Therapy" OR
"tyrosine kinase inhibitor" OR "tyrosine kinase inhibitors"
OR "TKI" OR "TKIs" OR "TKI therapy" OR "TKI
therapies" OR "nivolumab" OR "ONO 4538" OR
"ONO4538" OR "ONO-4538" OR "BMS-936558" OR
"BMS936558" OR "BMS 936558" OR "MDX-1106" OR
"MDX1106" OR "MDX 1106" OR "opdivo" OR
"cemiplimab" OR "REGN2810" OR "dostarlimab" OR
"GSK4057190" OR "TSR-042" OR "Atezolizumab" OR

"Tecentriq" OR "MPDL3280A" OR "MPDL-3280A" OR
 "MPDL 3280A" OR "MDPL3280A" OR "MDPL-3280A"
 OR "MDPL 3280A" OR "RO5541267" OR "RO-5541267"
 OR "RO 5541267" OR "RG-7446" OR "RG7446" OR "RG
 7446" OR "Avelumab" OR "MSB0010718C" OR "MSB
 0010718C" OR "MSB-0010718C" OR "pembrolizumab"
 OR "lambrolizumab" OR "Keytruda" OR "MK3475" OR
 "MK 3475" OR "durvalumab" OR "MEDI4736" OR
 "MEDI-4736" OR "Imfinzi" OR "CD273 Antigen" OR "PD
 L2 Ligand" OR "PD-L2 Ligand" OR "B7 DC Ligand" OR
 "B7 DC Antigen" OR "B7-DC Ligand" OR "B7-DC
 Antigen"):ti,ab

| | | | |
|----|--|------------------------|--------|
| 32 | #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29 OR #30 OR #31 | | 2,8975 |
| 33 | Mesh descriptor: [Checkpoint Kinase 1] explode all trees | SCLC-specific | 3 |
| 34 | Mesh descriptor: [Poly(ADP-ribose) Polymerases] explode all trees | immunotherapy terms | 19 |
| 35 | Mesh descriptor: [Ataxia Telangiectasia Mutated Proteins] explode all trees | | 19 |
| 36 | Mesh descriptor: [Cyclin-Dependent Kinase 4] explode all trees | | 24 |
| 37 | Mesh descriptor: [Cyclin-Dependent Kinase 6] explode all trees | | 19 |
| 38 | Mesh descriptor: [Aurora Kinase A] explode all trees | | 6 |

| | | |
|----|--|-------|
| 39 | <p>Mesh descriptor: [Hepatocyte Growth Factor] explode all trees</p> | 76 |
| 40 | <p>("Chk1 Kinase" OR "Chk1 Protein Kinase" OR "Checkpoint-1 Kinase" OR "hChk1 " OR "CHK1" OR "CHK1 " OR "checkpoint kinase 1" OR "poly ADP ribose polymerase" OR "ADP-Ribosyltransferase (Polymerizing)" OR "Poly(ADP-ribose) Polymerase" OR "Poly ADP Ribose Polymerase" OR "Poly(ADP-Ribose) Transferase" OR "Poly(ADP-Ribose) Synthase" OR "PARP" OR "Poly(ADPribose) Polymerase" OR "Poly ADP-Ribose Synthase" OR "Poly ADP Ribose Synthase" OR "Poly(ADPR) Polymerase" OR "Poly ADP Ribose Transferase" OR "A-T" OR "A T Protein" OR "AT Mutated Protein" OR "ATM Protein " OR "WEE1" OR "Cyclin-Dependent Kinase 4" OR "Cyclin Dependent Kinase 4" OR "Cdk4 Cyclin-Dependent Kinase" OR "Cdk4 Cyclin Dependent Kinase" OR "Cdk4" OR "Cdk4 Protein Kinase" OR "Cell Division Protein Kinase 4" OR "Cyclin D-Dependent Kinase CDK4" OR "Cyclin D Dependent Kinase CDK4" OR "Cyclin-Dependent Kinase 6" OR "Cyclin Dependent Kinase 6" OR "Cell Division Protein Kinase 6" OR "Cdk6 Protein Kinase" OR "CDK6 Protein" OR "PLSTIRE Protein" OR "Aurora A" OR "Aurora A Kinases" OR "AURKA" OR "Aurora A Kinase" OR "Serine-Threonine Protein Kinase 15" OR "Serine Threonine Protein</p> | 1,985 |

Kinase 15" OR "AURORA2 Protein" OR "AuroraA Kinase"
 OR "Breast-Tumor-Amplified Kinase" OR "Breast Tumor
 Amplified Kinase" OR "BTAK" OR "STK15 Kinase" OR
 "Aurora Kinases A" OR "Aurora-A Kinase" OR "ARK2"
 OR "aurora kinase B" OR "STK12 protein" OR "aurora B
 kinase" OR "Hepatocyte Growth Factor" OR
 "Hepatopoietin" OR "Hepatopoietin A"):ti,ab

| | | | |
|----|---|-----------------------|-------|
| 41 | #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 | | 2,004 |
| 42 | #6 AND #23 AND #34 AND (#45 OR #54) with Publication Year from 2012 to 2022, in Trials | SCLC search output | 6 |
