**Supplementary Table** **1: Search strategies for each database.**

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| **Search strategy of Pubmed** |
| #1 | "Prostatic Neoplasms"[Mesh] |
| #2 | ((((((((((((((((Prostate Neoplasms[Title/Abstract]) OR (Neoplasms, Prostate[Title/Abstract])) OR (Neoplasm, Prostate[Title/Abstract])) OR (Prostate Neoplasm[Title/Abstract])) OR (Neoplasms, Prostatic[Title/Abstract])) OR (Neoplasm, Prostatic[Title/Abstract])) OR (Prostatic Neoplasm[Title/Abstract])) OR (Prostate Cancer[Title/Abstract])) OR (Cancer, Prostate[Title/Abstract])) OR (Cancers, Prostate[Title/Abstract])) OR (Prostate Cancers[Title/Abstract])) OR (Cancer of the Prostate[Title/Abstract])) OR (Prostatic Cancer[Title/Abstract])) OR (Cancer, Prostatic[Title/Abstract])) OR (Cancers, Prostatic[Title/Abstract])) OR (Prostatic Cancers[Title/Abstract])) OR (Cancer of Prostate[Title/Abstract]) |
| #3 | #1 OR #2 |
| #4 | ((PSMA[Title/Abstract]) OR (Prostate-Specific Membrane Antigen[Title/Abstract])) OR (Prostate Specific Membrane Antigen[Title/Abstract]) |
| #5 | ((18F[Title/Abstract]) OR (18 F[Title/Abstract])) OR (18-F[Title/Abstract]) |
| #6 | "Lymph Nodes"[Mesh] |
| #7 | ((Lymph Node[Title/Abstract]) OR (Node, Lymph[Title/Abstract])) OR (Nodes, Lymph[Title/Abstract]) |
| #8 | #6 OR #7 |
| #9 | (PET/CT[Title/Abstract]) OR (positron emission tomography/computerized tomography[Title/Abstract]) |
| #10 | #3 AND #4 AND #5 AND #8 AND #9 |
| Search strategy of Embase |
| #1 | 'prostate cancer'/exp OR 'prostate cancer' OR 'prostatic neoplasms':ab,ti OR 'prostate neoplasms':ab,ti OR 'neoplasms, prostate':ab,ti OR 'neoplasm, prostate':ab,ti OR 'prostate neoplasm':ab,ti OR 'neoplasms, prostatic':ab,ti OR 'neoplasm, prostatic':ab,ti OR 'prostatic neoplasm':ab,ti OR 'cancer, prostate':ab,ti OR 'cancers, prostate':ab,ti OR 'prostate cancers':ab,ti OR 'cancer of the prostate':ab,ti OR 'prostatic cancer':ab,ti OR 'cancer, prostatic':ab,ti OR 'cancers, prostatic':ab,ti OR 'prostatic cancers':ab,ti OR 'cancer of prostate':ab,ti |
| #2 | 'psma':ab,ti OR 'prostate-specific membrane antigen':ab,ti OR 'prostate specific membrane antigen':ab,ti |
| #3 | '18f':ab,ti OR '18 f':ab,ti OR '18-f':ab,ti |
| #4 | 'lymph node'/exp OR 'lymph node' OR 'lymph nodes':ab,ti OR 'node, lymph':ab,ti OR 'nodes, lymph':ab,ti |
| #5 | 'pet-ct scanner'/exp OR 'pet-ct scanner' OR 'pet/ct':ab,ti OR 'positron emission tomography/computerized tomography':ab,ti |
| #6 | #1 AND #2 AND #3 AND #4 AND #5 |
| Search strategy of Web of science |
| #1 | (((((((((((((((((TS = (Prostatic Neoplasms)) OR TS = (Prostate Neoplasms)) OR TS = (Neoplasms, Prostate)) OR TS = (Neoplasm, Prostate)) OR TS = (Prostate Neoplasm)) OR TS = (Neoplasms, Prostatic)) OR TS = (Neoplasm, Prostatic)) OR TS = (Prostatic Neoplasm)) OR TS = (Prostate Cancer)) OR TS = (Cancer, Prostate)) OR TS = (Cancers, Prostate)) OR TS = (Prostate Cancers)) OR TS = (Cancer of the Prostate)) OR TS = (Prostatic Cancer)) OR TS = (Cancer, Prostatic)) OR TS = (Cancers, Prostatic)) OR TS = (Prostatic Cancers)) OR TS = (Cancer of Prostate) |
| #2 | ((TS = (PSMA)) OR TS = (Prostate-Specific Membrane Antigen)) OR TS = (Prostate Specific Membrane Antigen) |
| #3 | ((TS = (18F)) OR TS = (18 F)) OR TS = (18-F) |
| #4 | (((TS = (Lymph Nodes)) OR TS = (Lymph Node)) OR TS = (Node, Lymph)) OR TS = (Nodes, Lymph) " |
| #5 | (TS = (PET/CT)) OR TS = (positron emission tomography/computerized tomography) |
| #6 | #1 AND #2 AND #3 AND #4 AND #5 |
| Search strategy of the Cochrane library |
| #1 | MeSH descriptor: [Prostatic Neoplasms] explode all trees |
| #2 | (Prostate Neoplasms):ti,ab,kw |
| #3 | (Neoplasms, Prostate):ti,ab,kw |
| #4 | (Neoplasm, Prostate):ti,ab,kw |
| #5 | (Prostate Neoplasm):ti,ab,kw |
| #6 | (Neoplasms, Prostatic):ti,ab,kw |
| #7 | (Neoplasm, Prostatic):ti,ab,kw |
| #8 | (Prostatic Neoplasm):ti,ab,kw |
| #9 | (Prostate Cancer):ti,ab,kw |
| #10 | (Cancer, Prostate):ti,ab,kw |
| #11 | (Cancers, Prostate):ti,ab,kw |
| #12 | (Prostate Cancers):ti,ab,kw |
| #13 | (Cancer of the Prostate):ti,ab,kw |
| #14 | (Prostatic Cancer):ti,ab,kw |
| #15 | (Cancer, Prostatic):ti,ab,kw |
| #16 | (Cancers, Prostatic):ti,ab,kw |
| #17 | (Prostatic Cancers):ti,ab,kw |
| #18 | (Cancer of Prostate):ti,ab,kw |
| #19 | #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 |
| #20 | (PSMA):ti,ab,kw OR (Prostate-Specific Membrane Antigen):ti,ab,kw OR (Prostate Specific Membrane Antigen):ti,ab,kw |
| #21 | (18F):ti,ab,kw OR (18 F):ti,ab,kw |
| #22 | MeSH descriptor: [Lymph Nodes] explode all trees |
| #23 | (Lymph Node):ti,ab,kw OR (Node, Lymph):ti,ab,kw OR (Nodes, Lymph):ti,ab,kw |
| #24 | #22 OR #23 |
| #25 | (PET CT):ti,ab,kw OR (positron emission tomography computerized tomography):ti,ab,kw |
| #26 | #19 AND #20 AND #21 AND #24 AND #25 |