

Appendix 1

Ovid MEDLINE(R) Ovid MEDLINE(R) ALL 1946 to search date

Searched April 3, 2024. 1,322 records retrieved.

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- 1 exp Lung Neoplasms/
 - 2 ((lung* or pulmon* or bronch* or pleuropulmon* or pleuro-pulmon*) adj5 (cancer* or neoplas* or carcin* or malign* or sarcom* or leiomyosarcom* or leio-myosarcom* or leiomyo-sarcom* or leio-myo-sarcom* or chondrosarco* or chondro-sarco* or fibrosarco* or fibro-sarco* or liposarco* or lipo-sarco* or rhabdo-myosarco* or rhabdomyo-sarco* or rhabdo-myo-sarco* or blastoma* or adenocarcin* or adeno-carcin*)).ti,ab,kf.
 - 3 1 or 2
 - 4 ((individual* or personal* or precision* or predict*) adj3 (medicine or oncology)).ti,ab,kf.
 - 5 (biomarker* or bio-marker* or theranostic* or liquid-biops*).ti,ab,kf.
 - 6 exp Biomarkers, Tumor/ or Circulating Tumor DNA/ or High-Throughput Nucleotide Sequencing/ or Molecular Diagnostic Techniques/ or "Liquid Biopsy"/
 - 7 Anaplastic Lymphoma Kinase/ or Proto-Oncogene Proteins B-raf/ or ErbB Receptors/ or "Proto-Oncogene Proteins p21(ras)"/ or Receptor, trkB/ or Proto-Oncogene Proteins c-ret/ or B7-H1 Antigen/
 - 8 (alk or "alk+" or alk-positiv* or "anaplastic lymphoma kinase*" or braf or b-raf or "braf+" or braf-positiv* or braf-mutat* or v600e* or egfr or "egfr+" or egfr-positiv* or egfr-mutat* or kras or "kras+" or kras-positiv* or kras-mutat* or ntrk or "nurotrophic tropomyosin receptor kinase*" or "ntrk+" or ntrk-postiv* or ntrk-mutat* or ntrk-fusion* or rek or "rek+" or rk-positiv* or ref-mutat* or ref-rearrang* or ros1 or "ros1+" or ros1-postiv* or ros1-rearrang* or pdl1 or pd-l1 or "pdl1+" or "pd-l1+" or pdl1-positiv* or pd-l1-positiv* or "programmed cell death ligand 1").ti,ab,kf.
 - 9 4 or 5 or 6 or 7 or 8
 - 10 exp Education, Continuing/
 - 11 Early Intervention, Educational/ or Health Education/ or Consumer Health Information/ or Health Literacy/ or Patient Medication Knowledge/ or Health Promotion/ or Healthy People Programs/ or "Patient Education as Topic"/
 - 12 Practice Patterns, Physicians'/ or exp "Marketing of Health Services"/ or "Health Services Needs and Demand"/ or Professional Practice Gaps/ or "Physician-Patient Relations"/ or Health Knowledge, Attitudes, Practice/
 - 13 (information* adj3 (provider* or physician* or consumer* or patient*)).ti,ab,kf.
 - 14 (awareness* or barrier* or educat* or outreach* or program or programs or programming).ti,ab,kf.
 - 15 (health adj2 promotion*).ti,ab,kf.
 - 16 (practice adj2 (pattern* or gap or gaps)).ti,ab,kf.
 - 17 10 or 11 or 12 or 13 or 14 or 15 or 16
 - 18 3 and 9 and 17
 - 19 limit 18 to english language
 - 20 19 not (exp "geographicals (non mesh)"/ not exp united states/)
 - 21 20 not ((exp animals/ not humans/) or (case reports or "review")).pt.)
-

Embase (Elsevier Embase.com)

Sources: Embase, Embase Classic, MEDLINE.

Searched March 13, 2024. 1,715 records retrieved.

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- #22 #21 NOT ('chapter'/it OR 'conference abstract'/it OR 'conference review'/it OR 'editorial'/it OR 'review'/it OR 'tombstone'/it OR 'case report'/de)
- #21 #19 NOT #20
- #20 'geographic names'/exp NOT 'united states'/exp
- #19 #16 NOT #17 AND [english]/lim
- #18 #16 NOT #17
- #17 ('animal experiment'/de NOT ('human experiment'/de OR 'human'/de) OR rat:ti OR rats:ti OR mouse:ti OR mice:ti OR swine:ti OR porcine:ti OR murine:ti OR sheep:ti OR lambs:ti OR pigs:ti OR piglets:ti OR rabbit:ti OR rabbits:ti OR cat:ti OR cats:ti OR dog:ti OR dogs:ti OR cattle:ti OR bovine:ti OR monkey:ti OR monkeys:ti OR trout:ti OR marmoset*:ti) AND 'animal experiment'/de
- #16 #3 AND #9 AND #15
- #15 #10 OR #11 OR #12 OR #13 OR #14
- #14 (practice NEAR/2 (pattern* OR gap OR gaps)):ti,ab,kw
- #13 (health NEAR/2 promotion*):ti,ab,kw
- #12 awareness*:ti,ab,kw OR barrier*:ti,ab,kw OR educat*:ti,ab,kw OR outreach*:ti,ab,kw OR program:ti,ab,kw OR programs:ti,ab,kw OR programming:ti,ab,kw
- #11 (information* NEAR/3 (provider* OR physician* OR consumer* OR patient*)):ti,ab,kw
- #10 'continuing education'/de OR 'health education'/de OR 'patient education'/de OR 'health literacy'/exp OR 'health promotion'/exp OR 'attitude to health'/de OR 'practice gap'/de
- #9 #4 OR #5 OR #6 OR #7 OR #8
- #8 alk:ti,ab,kw OR alk+:ti,ab,kw OR 'alk positiv*':ti,ab,kw OR 'anaplastic lymphoma kinase*':ti,ab,kw OR braf:ti,ab,kw OR 'b raf':ti,ab,kw OR braf+:ti,ab,kw OR 'braf positiv*':ti,ab,kw OR 'braf mutat*':ti,ab,kw OR v600e*:ti,ab,kw OR egfr:ti,ab,kw OR egfr+:ti,ab,kw OR 'egfr positiv*':ti,ab,kw OR 'egfr mutat*':ti,ab,kw OR kras:ti,ab,kw OR kras+:ti,ab,kw OR 'kras positiv*':ti,ab,kw OR 'kras mutat*':ti,ab,kw OR ntrk:ti,ab,kw OR 'neurotrophic tropomyosin receptor kinase*':ti,ab,kw OR ntrk+:ti,ab,kw OR 'ntrk positiv*':ti,ab,kw OR 'ntrk mutat*':ti,ab,kw OR 'ntrk fusion*':ti,ab,kw OR rek:ti,ab,kw OR rek+:ti,ab,kw OR 'rk positiv*':ti,ab,kw OR 'ref mutat*':ti,ab,kw OR 'ref rearrang*':ti,ab,kw OR ros1:ti,ab,kw OR ros1+:ti,ab,kw OR 'ros1 positiv*':ti,ab,kw OR 'ros1 rearrang*':ti,ab,kw OR pdl1:ti,ab,kw OR 'pd l1':ti,ab,kw OR pdl1+:ti,ab,kw OR 'pd l1+:ti,ab,kw OR 'pdl1 positiv*':ti,ab,kw OR 'pd l1 positiv*':ti,ab,kw OR 'programmed cell death ligand 1':ti,ab,kw
- #7 'anaplastic lymphoma kinase'/de OR 'b raf kinase'/de OR 'epidermal growth factor receptor'/de OR 'protein p21'/de OR 'brain derived neurotrophic factor receptor'/de OR 'protein ret'/de OR 'programmed death 1 ligand 1'/de
- #6 'personalized medicine'/exp OR 'liquid biopsy'/de OR 'tumor marker'/exp OR 'circulating tumor dna'/de OR 'high throughput sequencing'/de OR 'molecular diagnosis'/de OR 'theranostic nanomedicine'/de
- #5 biomarker*:ti,ab,kw OR 'bio marker*':ti,ab,kw OR theranostic*:ti,ab,kw OR 'liquid biops*':ti,ab,kw
- #4 ((individual* OR personal* OR precision* OR predict*) NEAR/3 (medicine OR oncology)):ti,ab,kw
- #3 #1 OR #2
- #2 ((lung* OR pulmon* OR bronch* OR pleuropulmon* OR 'pleuro pulmon*') NEAR/5 (cancer* OR neoplas* OR carcin* OR malign* OR sarcom* OR leiomyosarcom* OR 'leio myosarcom*' OR 'leiomyo sarcom*' OR 'leio myo sarcom' OR chondrosarco* OR 'chondro sarco*' OR fibrosarco* OR 'fibro sarco*' OR liposarco* OR 'lipo sarco*' OR 'rhabdo myosarco*' OR 'rhabdomyo sarco*' OR 'rhabdo myo sarco*' OR blastoma* OR adenocarcin* OR 'adeno carcin*')):ti,ab,kw
- #1 'lung cancer'/exp
-

Cochrane Central Register of Controlled Trials: CENTRAL (Wiley)
Searched March 13, 2024. 240 records retrieved.

ID	Search
#1	[mh "Lung Neoplasms"]
#2	((lung*:ti,ab,kw OR pulmon*:ti,ab,kw OR bronch*:ti,ab,kw OR pleuropulmon*:ti,ab,kw OR pleuro-pulmon*:ti,ab,kw) NEAR/5 (cancer*:ti,ab,kw OR neoplas*:ti,ab,kw OR carcin*:ti,ab,kw OR malign*:ti,ab,kw OR sarcom*:ti,ab,kw OR leiomyosarcom*:ti,ab,kw OR leiomyosarcom*:ti,ab,kw OR leiomyo-sarcom*:ti,ab,kw OR leio-myo-sarcom*:ti,ab,kw OR chondrosarco*:ti,ab,kw OR chondro-sarco*:ti,ab,kw OR fibrosarco*:ti,ab,kw OR fibro-sarco*:ti,ab,kw OR liposarco*:ti,ab,kw OR lipo-sarco*:ti,ab,kw OR rhabdo-myosarco*:ti,ab,kw OR rhabdomyo-sarco*:ti,ab,kw OR rhabdo-myo-sarco*:ti,ab,kw OR blastoma*:ti,ab,kw OR adenocarcin*:ti,ab,kw OR adeno-carcin*:ti,ab,kw))
#3	#1 OR #2
#4	((individual*:ti,ab,kw OR personal*:ti,ab,kw OR precision*:ti,ab,kw OR predict*:ti,ab,kw) NEAR/3 (medicine:ti,ab,kw OR oncology:ti,ab,kw))
#5	(biomarker*:ti,ab,kw OR bio-marker*:ti,ab,kw OR theranostic*:ti,ab,kw OR liquid-biops*:ti,ab,kw)
#6	[mh "Biomarkers, Tumor"] OR [mh ^"Circulating Tumor DNA"] OR [mh ^"High-Throughput Nucleotide Sequencing"] OR [mh ^"Molecular Diagnostic Techniques"] OR [mh ^"Liquid Biopsy"]
#7	[mh ^"Anaplastic Lymphoma Kinase"] OR [mh ^"Proto-Oncogene Proteins B-raf"] OR [mh ^"ErbB Receptors"] OR [mh ^"Proto-Oncogene Proteins p21(ras)"] OR [mh ^"Receptor, trkB"] OR [mh ^"Proto-Oncogene Proteins c-ret"] OR [mh ^"B7-H1 Antigen"]
#8	alk:ti,ab,kw OR "alk+":ti,ab,kw OR (alk NEXT positiv*):ti,ab,kw OR ("anaplastic lymphoma" NEXT kinase):ti,ab,kw OR braf:ti,ab,kw OR (b NEXT raf):ti,ab,kw OR "braf+":ti,ab,kw OR (braf NEXT positiv*):ti,ab,kw OR (braf NEXT mutat*):ti,ab,kw OR v600e*:ti,ab,kw OR egfr:ti,ab,kw OR "egfr+":ti,ab,kw OR (egfr NEXT positiv*):ti,ab,kw OR (egfr NEXT mutat*):ti,ab,kw OR kras:ti,ab,kw OR "kras+":ti,ab,kw OR (kras NEXT positiv*):ti,ab,kw OR (kras NEXT mutat*):ti,ab,kw OR ntrk:ti,ab,kw OR ("neurotrophic tropomyosin receptor" NEXT kinase):ti,ab,kw OR "ntrk+":ti,ab,kw OR (ntrk NEXT positiv*):ti,ab,kw OR (ntrk NEXT mutat*):ti,ab,kw OR (ntrk NEXT fusion*):ti,ab,kw OR rek:ti,ab,kw OR "rek+":ti,ab,kw OR (rk NEXT positiv*):ti,ab,kw OR (ref NEXT mutat*):ti,ab,kw OR (ref NEXT rearrang*):ti,ab,kw OR ros1:ti,ab,kw OR "ros1+":ti,ab,kw OR (ros1 NEXT positiv*):ti,ab,kw OR (ros1 NEXT rearrang*):ti,ab,kw OR pdl1:ti,ab,kw OR (pd NEXT I1):ti,ab,kw OR "pdl1+":ti,ab,kw OR "pd-I1+":ti,ab,kw OR (pdl1 NEXT positiv*):ti,ab,kw OR (pd NEXT I1 NEXT positiv*):ti,ab,kw OR "programmed cell death ligand 1":ti,ab,kw
#9	#4 OR #5 OR #6 OR #7 OR #8
#10	[mh "Education, Continuing"] OR [mh ^"Early Intervention, Educational"] OR [mh ^"Health Education"] OR [mh ^"Consumer Health Information"] OR [mh ^"Health Literacy"] OR [mh ^"Patient Medication Knowledge"] OR [mh ^"Health Promotion"] OR [mh ^"Healthy People Programs"] OR [mh ^"Patient Education as Topic"] OR [mh ^"Practice Patterns, Physicians"] OR [mh "Marketing of Health Services"] OR [mh ^"Health Services Needs and Demand"] OR [mh ^"Professional Practice Gaps"] OR [mh ^"Physician-Patient Relations"]
#11	(information*:ti,ab,kw NEAR/3 (provider*:ti,ab,kw OR physician*:ti,ab,kw OR consumer*:ti,ab,kw OR patient*:ti,ab,kw))
#12	(awareness*:ti,ab,kw OR barrier*:ti,ab,kw OR educat*:ti,ab,kw OR outreach*:ti,ab,kw OR program:ti,ab,kw OR programs:ti,ab,kw OR programming:ti,ab,kw)
#13	(health:ti,ab,kw NEAR/2 promotion*:ti,ab,kw)
#14	(practice:ti,ab,kw NEAR/2 (pattern*:ti,ab,kw OR gap:ti,ab,kw OR gaps:ti,ab,kw))
#15	#10 OR #11 OR #12 OR #13 OR #14
#16	#3 AND #9 AND #15
#17	MeSH descriptor: [Geographic Locations] explode all trees
#18	MeSH descriptor: [United States] explode all trees
#19	#17 NOT #18
#20	#16 NOT #19
#21	#16 NOT #19 in Trials
#22	(clinicaltrials.gov):so
#23	#21 NOT #22
#24	(who):so
#25	#23 NOT #24

S35 S33 NOT S34

S34 MH "Animals+" NOT (MH "Human")

S33 S31 NOT S32

S32 (MH "Geographic Locations+") NOT (MH "United States+")

S31 S3 AND S16 AND S30

S30 S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29

S29 ((TI practice OR AB practice) N2 ((TI pattern* OR AB pattern*) OR (TI gap OR AB gap) OR (TI gaps OR AB gaps)))

S28 ((TI health OR AB health) N2 (TI promotion* OR AB promotion*))

S27 ((TI awareness* OR AB awareness*) OR (TI barrier* OR AB barrier*) OR (TI educat* OR AB educat*) OR (TI outreach* OR AB outreach*) OR (TI program OR AB program) OR (TI programs OR AB programs) OR (TI programming OR AB programming))

S26 ((TI information* OR AB information*) N3 ((TI provider* OR AB provider*) OR (TI physician* OR AB physician*) OR (TI consumer* OR AB consumer*) OR (TI patient* OR AB patient*)))

S25 (MH "Physician-Patient Relations")

S24 (MH "Health Services Needs and Demand+")

S23 (MH "Marketing")

S22 (MH "Practice Patterns")

S21 (MH "Patient Education+")

S20 (MH "Health Initiative 2000+")

S19 (MH "Health Promotion")

S18 (MH "Health Education+")

S17 (MH "Education, Continuing+")

S16 S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15

S15 ((TI alk OR AB alk) OR (TI alk+ OR AB alk+) OR (TI alk-positiv* OR AB alk-positiv*) OR (TI "anaplastic lymphoma kinase*" OR AB "anaplastic lymphoma kinase*") OR (TI braf OR AB braf) OR (TI b-raf OR AB b-raf) OR (TI braf+ OR AB braf+) OR (TI braf-positiv* OR AB braf-positiv*) OR (TI braf-mutat* OR AB braf-mutat*) OR (TI v600e* OR AB v600e*) OR (TI egfr OR AB egfr) OR (TI egfr+ OR AB egfr+) OR (TI egfr-positiv* OR AB egfr-positiv*) OR (TI egfr-mutat* OR AB egfr-mutat*) OR (TI kras OR AB kras) OR (TI kras+ OR AB kras+) OR (TI kras-positiv* OR AB kras-positiv*) OR (TI kras-mutat* OR AB kras-mutat*) OR (TI ntrk OR AB ntrk) OR (TI "neurotrophic tropomyosin receptor kinase*" OR AB "neurotrophic tropomyosin receptor kinase*") OR (TI ntrk+ OR AB ntrk+) OR (TI ntrk-positiv* OR AB ntrk-positiv*) OR (TI ntrk-mutat* OR AB ntrk-mutat*) OR (TI ntrk-fusion* OR AB ntrk-fusion*) OR (TI rek OR AB rek) OR (TI rek+ OR AB rek+) OR (TI rk-positiv* OR AB rk-positiv*) OR (TI ref-mutat* OR AB ref-mutat*) OR (TI ref-rearrang* OR AB ref-rearrang*) OR (TI ros1 OR AB ros1) OR (TI ros1+ OR AB ros1+) OR (TI ros1-positiv* OR AB ros1-positiv*) OR (TI ros1-rearrang* OR AB ros1-rearrang*) OR (TI pdl1 OR AB pdl1) OR (TI pd-11 OR AB pd-11) OR (TI pdl1+ OR AB pdl1+) OR (TI pd-11+ OR AB pd-11+) OR (TI pdl1-positiv* OR AB pdl1-positiv*) OR (TI pd-11-positiv* OR AB pd-11-positiv*) OR (TI "programmed cell death ligand 1" OR AB "programmed cell death ligand 1"))

S14 (MH "Epidermal Growth Factor Receptors")

S13 (MH "Oncogenes")

S12 (MH "Anaplastic Lymphoma Kinase")

S11 (MH "Liquid Biopsy")

S10 (MH "Molecular Diagnostic Techniques")

S9 (MH "Sequence Analysis+")

S8 (MH "High-Throughput Screening Assays")

S7 (MH "Tumor Markers, Biological+")

S6 ((TI biomarker* OR AB biomarker*) OR (TI bio-marker* OR AB bio-marker*) OR (TI theranostic* OR AB theranostic*) OR (TI liquid-biops* OR AB liquid-biops*))

S5 (((TI individual* OR AB individual*) OR (TI personal* OR AB personal*) OR (TI precision* OR AB precision*) OR (TI predict* OR AB predict*)) N3 ((TI medicine OR AB medicine) OR (TI oncology OR AB oncology)))

S4 (MH "Individualized Medicine")

S3 S1 OR S2

S2 (((TI lung* OR AB lung*) OR (TI pulmon* OR AB pulmon*) OR (TI bronch* OR AB bronch*) OR (TI pleuropulmon* OR AB pleuropulmon*) OR (TI pleuro-pulmon* OR AB pleuro-pulmon*)) N5 ((TI cancer* OR AB cancer*) OR (TI neoplas* OR AB neoplas*) OR (TI carcin* OR AB carcin*) OR (TI malign* OR AB malign*) OR (TI sarcom* OR AB sarcom*) OR (TI leiomyosarcom* OR AB leiomyosarcom*) OR (TI leio-myo-sarcom* OR AB leio-myo-sarcom*) OR (TI leiomyo-sarcom* OR AB leiomyo-sarcom*) OR (TI chondrosarco* OR AB chondrosarco*) OR (TI chondro-sarco* OR AB chondro-sarco*) OR (TI fibrosarco* OR AB fibrosarco*) OR (TI fibro-sarco* OR AB fibro-sarco*) OR (TI liposarco* OR AB liposarco*) OR (TI lipo-sarco* OR AB lipo-sarco*) OR (TI rhabdo-myo-sarco* OR AB rhabdo-myo-sarco*) OR (TI rhabdomyo-sarco* OR AB rhabdomyo-sarco*) OR (TI rhabdo-myo-sarco* OR AB rhabdo-myo-sarco*) OR (TI blastoma* OR AB blastoma*) OR (TI adenocarcin* OR AB adenocarcin*) OR (TI adeno-carcin* OR AB adeno-carcin*)))

S1 (MH "Lung Neoplasms+")

Scopus (Elsevier)

Searched April 1, 2024. 284 records retrieved.

((TITLE-ABS-KEY ((lung* OR pulmon* OR bronch* OR pleuropulmon* OR pleuro-pulmon*) W/5 (cancer* OR neoplas* OR carcin* OR malign* OR sarcom* OR leiomyosarcom* OR leio-myosarcom* OR leiomyo-sarcom* OR leio-myo-sarcom* OR chondrosarco* OR chondro-sarco* OR fibrosarco* OR fibro-sarco* OR liposarco* OR lipo-sarco* OR rhabdo-myosarco* OR rhabdomyo-sarco* OR rhabdo-myo-sarco* OR blastoma* OR adenocarcin* OR adeno-carcin*))) AND (TITLE-ABS (((individual* OR personal* OR precision* OR predict*) W/3 (medicine OR oncology)) OR (biomarker* OR bio-marker* OR theranostic* OR liquid-biops*) OR (alk OR "alk+" OR alk-positiv* OR "anaplastic lymphoma kinase*" OR braf OR b-raf OR "braf+" OR braf-positiv* OR braf-mutat* OR v600e* OR egfr OR "egfr+" OR egfr-positiv* OR egfr-mutat* OR kras OR "kras+" OR kras-positiv* OR kras-mutat* OR ntrk OR "nurotrophic tropomyosin receptor kinase*" OR "ntrk+" OR ntrk-postiv* OR ntrk-mutat* OR ntrk-fusion* OR rek OR "rek+" OR rk-positiv* OR ref-mutat* OR ref-rearrang* OR ros1 OR "ros1+" OR ros1-postiv* OR ros1-rearrang* OR pdl1 OR pd-l1 OR "pdl1+" OR "pd-l1+" OR pdl1-positiv* OR pd-l1-positiv* OR "programmed cell death ligand 1"))) AND (TITLE-ABS ((information* W/3 (provider* OR physician* OR consumer* OR patient*)) OR (awareness* OR barrier* OR educat* OR outreach* OR program OR programs OR programming) OR (health W/2 promotion*) OR (practice W/2 (pattern* OR gap OR gaps))))) AND (TITLE-ABS-KEY (america* OR "united states" OR alabama* OR alaska* OR arizona* OR arkansa* OR california* OR carolina* OR colorad* OR connecticut* OR dakota* OR delaware* OR "district of columbia" OR florida* OR floridian* OR georgia* OR hawaii* OR idaho* OR illinois* OR indiana* OR iowa* OR kansas OR kansan OR kentuck* OR louisiana* OR maine* OR maryland* OR massachusetts* OR michigan* OR minnesota* OR mississippi* OR missouri* OR montana* OR nebraska* OR nevada* OR "new england*" OR "new hampshir*" OR "new jersey*" OR "new mexic*" OR "new york*" OR "north carolin*" OR ohio* OR oklahom* OR oregon* OR pennsylvania* OR "puerto ric*" OR "rhode island*" OR "south carolin*" OR tennesse* OR texas* OR texan* OR utah* OR vermont* OR virginia* OR washington* OR "west virginia*" OR wisconsin* OR wyoming* OR "new york" OR "los angeles" OR chicago OR houston OR phoenix OR philadelphia OR "san antonio" OR "san diego" OR dallas OR austin OR jacksonville OR "san jose" OR ((fort OR ft) W/1 worth) OR columbus OR charlotte OR indianapolis OR "san francisco" OR seattle OR denver OR "oklahoma city" OR nashville OR "el paso" OR washington OR "las vegas" OR boston OR portland OR louisville OR memphis OR detroit OR baltimore OR milwaukee OR albuquerque OR tucson OR fresno OR sacramento OR mesa OR "kansas city" OR atlanta OR "colorado springs" OR omaha OR raleigh OR "virginia beach" OR "long beach" OR miami OR oakland OR minneapolis OR tula OR bakersfield OR tampa OR wichita OR arlington OR aurora OR "new orleans" OR cleveland OR anaheim OR honolulu OR henderson OR stockton OR riverside OR lexington OR "corpus christi" OR orlando OR irvine OR cincinnati OR "santa ana" OR newark OR ((saint OR st) W/1 paul) OR pittsburgh OR greensboro OR lincoln OR durham OR plano OR anchorage OR "jersey city" OR ((saint OR st) W/1 louis) OR chandler OR "north las vegas" OR "chula vista" OR buffalo OR gilbert OR reno OR madison OR ((fort OR ft) W/1 wayne) OR toledo OR lubbock OR ((saint OR st) W/1 petersburg) OR laredo OR irving OR chesapeake OR glendale OR winston-salem OR scottsdale OR garland OR boise OR norfolk OR (port W/1 (saint OR st) W/1 lucie) OR spokane OR richmond OR fremont OR huntsville OR tacoma OR "baton rouge" OR "santa clarita" OR "san bernardino" OR hialeah OR frisco OR modesto OR "cape coral" OR fontana OR "moreno valley" OR "des moines" OR rochester OR fayetteville OR yonkers OR mckinney OR worcester OR "salt lake city" OR "little rock" OR columbus OR augusta OR "sioux falls" OR "grand prairie" OR tallahassee OR amarillo OR oxnard OR peoria OR "overland park" OR montgomery OR birmingham OR "grand rapids" OR knoxville OR vancouver OR "huntington beach" OR providence OR brownsville OR glendale OR akron OR tempe OR "newport news" OR chattanooga OR mobile OR ((fort OR ft) W/1 lauderdale) OR cary OR shreveport OR ontario OR eugene OR aurora OR "elk grove" OR salem OR "santa rosa" OR clarksville OR "rancho cucamonga" OR oceanside OR springfield OR "pembroke pines" OR "garden grove" OR ((fort OR ft) W/1 collins) OR lancaster OR palmdale OR murfreesboro OR salinas OR corona OR killeen OR hayward OR paterson OR macon OR lakewood OR alexandria OR roseville OR surprise OR springfield OR charleston OR "kansas city" OR sunnyvale OR bellevue OR hollywood OR denton OR escondido OR joliet OR naperville OR bridgeport OR savannah OR mesquite OR pasadena OR rockford OR pomona OR jackson OR olathe OR gainesville OR mcallen OR syracuse OR waco OR visalia OR thornton OR torrance OR fullerton OR columbia OR lakewood OR "new haven" OR hampton OR miramar OR victorville OR warren OR "west valley city" OR "cedar rapids" OR stamford OR orange OR dayton OR midland OR kent OR elizabeth OR pasadena OR carrollton OR "coral springs" OR "sterling heights" OR fargo OR lewisville OR meridian OR norman OR "palm bay" OR athens OR columbia OR abilene OR pearland OR "santa clara" OR "round rock" OR topeka OR allentown OR clovis OR "simi valley" OR "college station" OR "thousand oaks" OR vallejo OR concord OR rochester OR arvada OR lafayette OR independence OR "west palm beach" OR hartford OR wilmington OR lakeland OR billings OR "ann arbor" OR fairfield OR berkeley OR richardson OR "north charleston" OR cambridge OR "broken arrow" OR clearwater OR "west jordan" OR evansville OR "league city" OR antioch OR manchester OR "high point" OR waterbury OR westminster OR richmond OR carlsbad OR "las cruces" OR murrieta OR lowell OR provo OR springfield OR elgin OR odessa OR lansing OR "pompano beach" OR beaumont OR temecula OR gresham OR allen OR pueblo OR everett OR "south fulton" OR peoria OR nampa OR tuscaloosa OR "miami gardens" OR "santa maria" OR downey OR concord OR ventura OR "costa mesa" OR "sugar land" OR menifee OR tyler OR sparks OR greeley OR "rio rancho" OR "sandy springs" OR dearborn OR "jurupa valley" OR edison OR "spokane valley" OR hillsboro OR davie OR "green bay" OR centennial OR buckeye OR boulder OR goodyear OR "el monte" OR "west covina" OR brockton OR "new braunfels" OR "el cajon" OR edinburg OR renton OR burbank OR inglewood OR rialto OR "lee's summit" OR bend OR woodbridge OR "south bend" OR "wichita falls" OR ((saint OR st) W/1 george) OR fishers OR carmel OR vacaville OR quincy OR conroe OR chico OR "san mateo" OR lynn OR alban OR hesperia OR "new bedford" OR davenport OR "daly city"))

List of cities with population more than 100,000 based on List of United States cities by population, Wikipedia, as of January 29, 2024, https://en.wikipedia.org/w/index.php?title=List_of_United_States_cities_by_population&oldid=1200447224

Web of Science (Clarivate)

Searched April 1, 2024. 1,255 records retrieved.

Databases searched: Web of Science Core Collection: Science Citation Index Expanded (1945-present), Social Sciences Citation Index (1956-present), Arts & Humanities Citation Index (1975-present), Conference Proceedings Citation Index- Science (1990-present), Conference Proceedings Citation Index- Social Science & Humanities (1990-present), Emerging Sources Citation Index (2015-present).

Regional databases: KCI-Korean Journal Database, 1980-present; SciELO Citation Index, 2002-present)

Timespan=1945-date of search

Language = Auto

- 1 TS=((lung* or pulmon* or bronch* or pleuropulmon* or pleuro-pulmon*) NEAR/5 (cancer* or neoplas* or carcin* or malign* or sarcom* or leiomyosarcom* or leio-myosarcom* or leiomyo-sarcom* or leio-myo-sarcom* or chondrosarco* or chondro-sarco* or fibrosarco* or fibro-sarco* or liposarco* or lipo-sarco* or rhabdo-myosarco* or rhabdomyo-sarco* or rhabdo-myo-sarco* or blastoma* or adenocarcin* or adeno-carcin*))
- 2 TS=(biomarker* or bio-marker* or theranostic* or liquid-biops*)
- 3 TS=(alk or "alk+" or alk-positiv* or "anaplastic lymphoma kinase*" or braf or b-raf or "braf+" or braf-positiv* or braf-mutat* or v600e* or egfr or "egfr+" or egfr-positiv* or egfr-mutat* or kras or "kras+" or kras-positiv* or kras-mutat* or ntrk or "nurotrophic tropomyosin receptor kinase*" or "ntrk+" or ntrk-postiv* or ntrk-mutat* or ntrk-fusion* or rek or "rek+" or rk-positiv* or ref-mutat* or ref-rearrang* or ros1 or "ros1+" or ros1-positiv* or ros1-rearrang* or pdl1 or pd-11 or "pdl1+" or "pd-11+" or pd11-positiv* or pd-11-positiv* or "programmed cell death ligand 1")
- 4 #3 OR #2
- 5 TS=(awareness* or barrier* or educat* or outreach* or program or programs or programming)
- 6 TS=(practice NEAR/2 (pattern* or gap or gaps))
- 7 TS=(health NEAR/2 promotion*)
- 8 TS=(information* NEAR/3 (provider* or physician* or consumer* or patient*))
- 9 #8 OR #7 OR #6 OR #5
- 10 TI=(america* OR "united states" OR alabama* OR alaska* OR arizona* OR arkansa* OR california* OR carolina* OR colorad* OR connecticut* OR dakota* OR delaware* OR "district of columbia" OR florida* OR floridian* OR georgia* OR hawaii* OR idaho* OR illinois* OR indiana* OR iowa* OR kansas OR kansan OR kentuck* OR louisiana* OR maine* OR maryland* OR massachusetts* OR michigan* OR minnesota* OR mississippi* OR missouri* OR montana* OR nebraska* OR nevada* OR "new england*" OR "new hampshir*" OR "new jersey*" OR "new mexic*" OR "new york*" OR "north carolin*" OR ohio* OR oklahom* OR oregon* OR pennsylvania* OR "puerto ric*" OR "rhode island*" OR "south carolin*" OR tennesse* OR texas* OR texan* OR utah* OR vermont* OR virginia* OR washington* OR "west virginia*" OR wisconsin* OR wyoming* OR "new york" OR "los angeles" OR chicago OR houston OR phoenix OR philadelphia OR "san antonio" OR "san diego" OR dallas OR austin OR jacksonville OR "san jose" OR ((fort OR ft) NEAR/1 worth) OR columbus OR charlotte OR indianapolis OR "san francisco" OR seattle OR denver OR "oklahoma city" OR nashville OR "el paso" OR washington OR "las vegas" OR boston OR portland OR louisville OR memphis OR detroit OR baltimore OR milwaukee OR albuquerque OR tucson OR fresno OR sacramento OR mesa OR "kansas city" OR atlanta OR "colorado springs" OR omaha OR raleigh OR "virginia beach" OR "long beach" OR miami OR oakland OR minneapolis OR tula OR bakersfield OR tampa OR wichita OR arlington OR aurora OR "new orleans" OR cleveland OR anaheim OR honolulu OR henderson OR stockton OR riverside OR lexington OR "corpus christi" OR orlando OR irvine OR cincinnati OR "santa ana" OR newark OR ((saint OR st) NEAR/1 paul) OR pittsburgh OR greensboro OR lincoln OR durham OR plano OR anchorage OR "jersey city" OR ((saint OR st) NEAR/1 louis) OR chandler OR "north las vegas" OR "chula vista" OR buffalo OR gilbert OR reno OR madison OR ((fort OR ft) NEAR/1 wayne) OR toledo OR lubbock OR ((saint OR st) NEAR/1 petersburg) OR laredo OR irving OR chesapeake OR glendale OR winston-salem OR scottsdale OR garland OR boise OR norfolk OR (port NEAR/1 (saint OR st) NEAR/1 lucie) OR spokane OR richmond OR fremont OR huntsville OR tacoma OR "baton rouge" OR "santa clarita" OR "san bernardino" OR hialeah OR frisco OR modesto OR "cape coral" OR fontana OR "moreno valley" OR "des moines" OR rochester OR fayetteville OR yonkers OR mckinney OR worcester OR "salt lake city" OR "little rock" OR columbus OR augusta OR "sioux falls" OR "grand prairie" OR tallahassee OR amarillo OR oxnard OR peoria OR "overland park" OR montgomery OR birmingham OR "grand rapids" OR knoxville OR vancouver OR "huntington beach" OR providence OR brownsville OR glendale OR akron OR tempe OR "newport news" OR chattanooga OR mobile OR ((fort OR ft) NEAR/1 lauderdale) OR cary OR shreveport OR ontario OR eugene OR aurora OR "elk grove" OR salem OR "santa rosa" OR clarksville OR "rancho cucamonga" OR oceanside OR springfield OR "pembroke pines" OR "garden grove" OR ((fort OR ft) NEAR/1 collins) OR lancaster OR palmdale OR murfreesboro OR salinas OR corona OR killeen OR hayward OR paterson OR macon OR lakewood OR alexandria OR roseville OR surprise OR springfield OR charleston OR "kansas city" OR sunnyvale OR bellevue OR hollywood OR denton OR escondido OR joliet OR naperville OR bridgeport OR savannah OR mesquite OR pasadena OR rockford OR pomona OR jackson OR olathe OR gainesville OR mcallen OR syracuse OR waco OR visalia OR thornton OR torrance OR fullerton OR columbia OR lakewood OR "new haven" OR hampton OR miramar OR victorville OR warren OR "west valley city" OR "cedar rapids" OR stamford OR orange OR dayton OR midland OR kent OR elizabeth OR pasadena OR carrollton OR "coral springs" OR "sterling heights" OR fargo OR lewisville OR meridian OR norman OR "palm bay" OR athens OR columbia OR abilene OR pearland OR "santa clara" OR "round rock" OR topeka OR allentown OR clovis OR "simi valley" OR "college station" OR "thousand oaks" OR vallejo OR concord OR rochester OR arvada OR lafayette OR independence OR "west palm beach" OR hartford OR wilmington OR lakeland OR billings OR "ann arbor" OR fairfield OR berkeley OR richardson OR "north charleston" OR cambridge OR "broken arrow" OR clearwater OR "west jordan" OR evansville OR "league city" OR antioch OR manchester OR "high point" OR waterbury OR westminster OR richmond OR carlsbad OR "las cruces" OR murrieta OR lowell OR provo OR springfield OR elgin OR odessa OR lansing OR "pompano beach" OR beaumont OR temecula OR gresham OR allen OR pueblo OR everett OR "south fulton" OR peoria OR nampa OR tuscaloosa OR "miami gardens" OR "santa maria" OR downey OR concord ORventura OR "costa mesa" OR "sugar land" OR menifee OR tyler OR sparks OR greeley OR "rio rancho" OR "sandy springs" OR dearborn OR "jurupa valley" OR edison OR "spokane valley" OR hillsboro OR davie OR "green bay" OR centennial OR buckeye OR boulder OR goodyear OR "el monte" OR "west covina" OR brockton OR "new braunfels" OR "el cajon" OR edinburg OR renton OR burbank OR inglewood OR rialto OR "lee's summit" OR bend OR woodbridge OR "south bend" OR "wichita falls" OR ((saint OR st) NEAR/1 george) OR fishers OR carmel OR vacaville OR quincy OR conroe OR chico OR "san mateo" OR lynn OR alban OR hesperia OR "new bedford" OR davenport OR "daly city") OR AB= (america* OR "united states" OR alabama* OR alaska* OR arizona* OR arkansa* OR california* OR carolina* OR colorad* OR connecticut* OR dakota* OR delaware* OR "district of columbia" OR florida* OR floridian* OR georgia* OR hawaii* OR idaho* OR illinois* OR indiana* OR iowa* OR kansas OR kansan OR kentuck* OR louisiana* OR maine* OR maryland* OR massachusetts* OR michigan* OR minnesota* OR mississippi* OR missouri* OR montana* OR nebraska* OR nevada* OR "new england*" OR "new hampshir*" OR "new jersey*" OR "new mexic*" OR "new york*" OR "north carolin*" OR ohio* OR oklahom* OR oregon* OR pennsylvania* OR 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- 11 #10 AND #9 AND #4 AND #1
- 12 TI= ((animal* OR rat OR rats OR mouse OR mice OR murine OR dog OR dogs OR canine OR cat OR cats OR feline OR rabbit OR cow OR cows OR bovine OR rodent* OR sheep OR ovine OR pig OR swine OR porcine OR veterinar* OR chick* OR zebrafish* OR baboon* OR nonhuman* OR primate* OR cattle* OR goose OR geese OR duck OR macaque* OR avian* OR bird* OR fish* OR trout* or marmoset* or chimp*) NOT (human* OR patient* OR women OR woman OR men OR man))
- 13 TI=(case report)
- 14 #13 OR #12
- 15 #11 NOT #14

Line #10 based on List of United States cities by population, Wikipedia, as of January 29, 2024, https://en.wikipedia.org/w/index.php?title=List_of_United_States_cities_by_population&oldid=1200447224

Probe Search:

Ovid MEDLINE(R) Ovid MEDLINE(R) ALL 1946 to search date

Searched January 12, 2024. 1,902 records retrieved.

- 1 exp Lung Neoplasms/
 - 2 ((lung* or pulmon* or bronch* or pleuropulmon* or pleuro-pulmon*) adj5 (cancer* or neoplas* or carcin* or malign* or sarcom* or leiomyosarcom* or leio-myosarcom* or leiomyo-sarcom* or leio-myo-sarcom* or chondrosarco* or chondro-sarco* or fibrosarco* or fibro-sarco* or liposarco* or lipo-sarco* or rhabdo-myosarco* or rhabdomyo-sarco* or rhabdo-myo-sarco* or blastoma* or adenocarcin* or adeno-carcin*)).ti,ab,kf.
 - 3 1 or 2
 - 4 ((individual* or personal* or precision* or predict*) adj3 (medicine or oncology)).ti,ab,kf.
 - 5 (biomarker* or bio-marker* or theranostic*).ti,ab,kf.
 - 6 exp Biomarkers, Tumor/ or Circulating Tumor DNA/ or High-Throughput Nucleotide Sequencing/ or Molecular Diagnostic Techniques/ or "Liquid Biopsy"/
 - 7 Anaplastic Lymphoma Kinase/ or Proto-Oncogene Proteins B-raf/ or ErbB Receptors/ or "Proto-Oncogene Proteins p21(ras)"/ or Receptor, trkB/ or Proto-Oncogene Proteins c-ret/ or B7-H1 Antigen/
 - 8 (alk or "alk+" or alk-positiv* or "anaplastic lymphoma kinase*" or braf or b-raf or "braf+" or braf-positiv* or braf-mutat* or v600e* or egfr or "egfr+" or egfr-positiv* or egfr-mutat* or kras or "kras+" or kras-positiv* or kras-mutat* or ntrk or "nurotrophic tropomyosin receptor kinase*" or "ntrk+" or ntrk-positiv* or ntrk-mutat* or ntrk-fusion* or rek or "rek+" or rk-positiv* or ref-mutat* or ref-rearrang* or ros1 or "ros1+" or ros1-positiv* or ros1-rearrang* or pdl1 or pd-l1 or "pdl1+" or "pd-l1+" or pdl1-positiv* or pd-l1-positiv* or "programmed cell death ligand 1").ti,ab,kf.
 - 9 4 or 5 or 6 or 7 or 8
 - 10 exp Education, Continuing/
 - 11 Early Intervention, Educational/ or Health Education/ or Consumer Health Information/ or Health Literacy/ or Patient Medication Knowledge/ or Health Promotion/ or Healthy People Programs/ or "Patient Education as Topic"/
 - 12 Practice Patterns, Physicians'/ or "Delivery of Health Care, Integrated"/ or Provider-Sponsored Organizations/ or exp "Marketing of Health Services"/ or "Health Services Needs and Demand"/ or Healthcare Disparities/ or Professional Practice Gaps/
 - 13 (information* adj3 (provider* or physician* or consumer* or patient*)).ti,ab,kf.
 - 14 (awareness* or barrier* or educat* or outreach* or program or programs or programming).ti,ab,kf.
 - 15 health promotion*.ti,ab,kf.
 - 16 (disparit* or inequalit* or inequit*).ti,ab,kf.
 - 17 (practice adj2 (pattern* or gap or gaps)).ti,ab,kf.
 - 18 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17
 - 19 3 and 9 and 18
 - 20 limit 19 to "humans only (removes records about animals)"
 - 21 limit 20 to english language
 - 22 exp "geographicals (non mesh)"/ not exp united states/
 - 23 21 not 22
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Calder Memorial Library

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