

STARLET: Supplementary One

Search strategies

These searches were run on the 2nd April, 2024.

1 MEDLINE (OVID)

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Ovid MEDLINE(R) ALL <1946 to March 29, 2024>

1   Carcinoma, Non-Small-Cell Lung/          74074
2   lung cancer.mp.          212008
3   (lung metast* or lung tumo* or lung carcinoma*).mp.    64188
4   1 or 2 or 3 261424
5   cerebral ventricle neoplasms/ or infratentorial neoplasms/ or
supratentorial neoplasms/          6918
6   (brain metast* or brain carcinom* or cerebral metast* or intracranial
metast*).mp.          20737
7   5 or 6          27534
8   ErbB Receptors/          48633
9   (egfr* or epidermal growth factor receptor*).mp.    110839
10  8 or 9          119248
11  4 and 7 and 10 1163
12  Protein Kinase Inhibitors/          59664
13  Antineoplastic Agents/          323913
14  (Osimertinib or Tagrisso or AZD9291).mp.    2988
15  12 or 13 or 14 369506
16  11 and 15 533
17  cranial irradiation/ or radiosurgery/ or radiotherapy, computer-
assisted/ or radiotherapy, high-energy/ or radiotherapy, image-guided/ or
x-ray therapy/          42630
18  radiosurg*.mp.          26840
19  (radioherap* or radiation or irradiation).mp.    813181
20  17 or 18 or 19 832422
21  16 and 20 132
22  randomized controlled trial.pt.          610373
23  controlled clinical trial.pt. 95519
24  randomized.ab.          640129
25  clinical trials as topic.sh.    201969
26  randomly.ab.          430224
27  trial.ti.          305931
28  22 or 23 or 24 or 25 or 26 or 27 1536139
29  exp animals/ not humans.sh.    5207954
30  28 not 29 1418586
31  21 and 30 20
32  Carcinoma, Non-Small-Cell Lung/          74074
33  lung cancer.mp.          212008
34  (lung metast* or lung tumo* or lung carcinoma*).mp.    64188
35  32 or 33 or 34 261424
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36 cerebral ventricle neoplasms/ or infratentorial neoplasms/ or
supratentorial neoplasms/ 6918
37 (brain metast* or brain carcinom* or cerebral metast* or intracranial
metast*).mp. 20737
38 36 or 37 27534
39 ErbB Receptors/ 48633
40 (egfr* or epidermal growth factor receptor*).mp. 110839
41 39 or 40 119248
42 35 and 38 and 41 1163
43 Protein Kinase Inhibitors/ 59664
44 Antineoplastic Agents/ 323913
45 (Osimertinib or Tagrisso or AZD9291).mp. 2988
46 43 or 44 or 45 369506
47 42 and 46 533
48 cranial irradiation/ or radiosurgery/ or radiotherapy, computer-
assisted/ or radiotherapy, high-energy/ or radiotherapy, image-guided/ or
x-ray therapy/ 42630
49 radiosurg*.mp. 26840
50 (radioherap* or radiation or irradiation).mp. 813181
51 48 or 49 or 50 832422
52 47 and 51 132
53 randomized controlled trial.pt. 610373
54 controlled clinical trial.pt. 95519
55 randomized.ab. 640129
56 clinical trials as topic.sh. 201969
57 randomly.ab. 430224
58 trial.ti. 305931
59 53 or 54 or 55 or 56 or 57 or 58 1536139
60 exp animals/ not humans.sh. 5207954
61 59 not 60 1418586
62 52 and 61 20

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20 trials found

2 Embase (OVID)

The same search strategy for Medline (OVID) given above was run in Embase (OVID).

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Embase Classic+Embase <1947 to 2024 March 29>
1 Carcinoma, Non-Small-Cell Lung/ 78994
2 lung cancer.mp. 424757
3 (lung metast* or lung tumo* or lung carcinoma*).mp. 237026
4 1 or 2 or 3 582902
5 cerebral ventricle neoplasms/ or infratentorial neoplasms/ or
supratentorial neoplasms/ 83142
6 (brain metast* or brain carcinom* or cerebral metast* or
intracranial metast*).mp. 53160
7 5 or 6 132407
8 ErbB Receptors/ 108655
9 (egfr* or epidermal growth factor receptor*).mp. 293788

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10 8 or 9 293788
11 4 and 7 and 10 4976
12 Protein Kinase Inhibitors/ 12809
13 Antineoplastic Agents/ 319706
14 (Osimertinib or Tagrisso or AZD9291).mp. 8840
15 12 or 13 or 14 338609
16 11 and 15 1361
17 cranial irradiation/ or radiosurgery/ or radiotherapy,
computer-assisted/ or radiotherapy, high-energy/ or radiotherapy,
image-guided/ or x-ray therapy/ 244688
18 radiosurg*.mp. 38741
19 (radioherap* or radiation or irradiation).mp. 1319164
20 17 or 18 or 19 1427685
21 16 and 20 380
22 randomized controlled trial.pt. 0
23 controlled clinical trial.pt. 0
24 randomized.ab. 931758
25 clinical trials as topic.sh. 2
26 randomly.ab. 575626
27 trial.ti. 427801
28 22 or 23 or 24 or 25 or 26 or 27 1619732
29 exp animals/ not humans.sh. 33733423
30 28 not 29 117224
31 21 and 30 0

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No trials identified.

3 CENTRAL

The same search strategy for Medline (OVID) given above was run in CENTRAL (OVID).

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EBM Reviews - Cochrane Central Register of Controlled Trials
<February 2024>

1 Carcinoma, Non-Small-Cell Lung/ 6570
2 lung cancer.mp. 24741
3 (lung metast* or lung tumo* or lung carcinoma*).mp. 3326
4 1 or 2 or 3 26535
5 cerebral ventricle neoplasms/ or infratentorial neoplasms/ or
supratentorial neoplasms/ 215
6 (brain metast* or brain carcinom* or cerebral metast* or
intracranial metast*).mp. 2621
7 5 or 6 2833
8 ErbB Receptors/ 1000
9 (egfr* or epidermal growth factor receptor*).mp. 16518
10 8 or 9 16642
11 4 and 7 and 10 314
12 Protein Kinase Inhibitors/ 1763
13 Antineoplastic Agents/ 10474
14 (Osimertinib or Tagrisso or AZD9291).mp. 464
15 12 or 13 or 14 12116

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16 11 and 15 102
17 cranial irradiation/ or radiosurgery/ or radiotherapy,
computer-assisted/ or radiotherapy, high-energy/ or radiotherapy,
image-guided/ or x-ray therapy/ 1446
18 radiosurg*.mp. 1276
19 (radioherap* or radiation or irradiation).mp. 39851
20 17 or 18 or 19 40466
21 16 and 20 23
22 randomized controlled trial.pt. 0
23 controlled clinical trial.pt. 0
24 randomized.ab. 715431
25 clinical trials as topic.sh. 40735
26 randomly.ab. 323935
27 trial.ti. 436335
28 22 or 23 or 24 or 25 or 26 or 27 1151312
29 exp animals/ not humans.sh.3681
30 28 not 29 1148440
31 21 and 30 22
32 Carcinoma, Non-Small-Cell Lung/ 6570
33 lung cancer.mp. 24741
34 (lung metast* or lung tumo* or lung carcinoma*).mp. 3326
35 32 or 33 or 34 26535
36 cerebral ventricle neoplasms/ or infratentorial neoplasms/ or
supratentorial neoplasms/ 215
37 (brain metast* or brain carcinom* or cerebral metast* or
intracranial metast*).mp. 2621
38 36 or 37 2833
39 ErbB Receptors/ 1000
40 (egfr* or epidermal growth factor receptor*).mp. 16518
41 39 or 40 16642
42 35 and 38 and 41 314
43 Protein Kinase Inhibitors/ 1763
44 Antineoplastic Agents/ 10474
45 (Osimertinib or Tagrisso or AZD9291).mp. 464
46 43 or 44 or 45 12116
47 42 and 46 102
48 cranial irradiation/ or radiosurgery/ or radiotherapy,
computer-assisted/ or radiotherapy, high-energy/ or radiotherapy,
image-guided/ or x-ray therapy/ 1446
49 radiosurg*.mp. 1276
50 (radioherap* or radiation or irradiation).mp. 39851
51 48 or 49 or 50 40466
52 47 and 51 23
53 randomized controlled trial.pt. 0
54 controlled clinical trial.pt. 0
55 randomized.ab. 715431
56 clinical trials as topic.sh. 40735
57 randomly.ab. 323935
58 trial.ti. 436335
59 53 or 54 or 55 or 56 or 57 or 58 1151312
60 exp animals/ not humans.sh.3681

61	59 not 60	1148440
62	52 and 61	22

22 trials.

4 CINAHL

S1	carcinoma, non-small-cell lung	20,050
S2	TX lung cancer	101,807
S3	TX (lung cancer or lung neoplasms or lung tumor or lung adenocarcinoma)	122,985
S4	S1 OR S2 OR S3	124,108
S5	cerebral ventricular system OR infratentorial tumor OR supratentorial tumor	1,821
S6	TX brain metastases OR TX (brain cancer or brain tumor or brain malignant)	40,305
S7	S5 OR S6	41,695
S8	erbB receptors	891
S9	TX (egfr inhibitor or epidermal growth factor receptor inhibitor)	6,684
S10	S8 OR S9	7,213
S11	S4 AND S7 AND S10	1,069
S12	protein kinase inhibitors	7,872
S13	antineoplastic agents	85,143
S14	TX osimertinib OR TX tagrisso OR TX AZD9291	1,771
S15	S12 OR S13 OR S14	91,387
S16	S11 AND S15	404
S17	cranial irradiation OR radiosurgery OR (radiotherapy or radiation treatment or radiation therapy)	95,135
S18	TX radiosurgery	8,775
S19	TX (radiotherapy or radiation therapy or cancer radiotherapy)	137,181
S20	S17 OR S18 OR S19	141,641
S21	S16 AND S20	226
S22	PT (randomised controlled trial or randomized controlled trial or rct)	157,133
S23	PT (controlled trial or randomized controlled trial)	157,133
S24	AB randomized	212,152
S25	MW clinical trials as topic	0
S26	MW clinical trial	683
S27	AB randomly	111,832
S28	TI trial	191,988
S29	S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28	443,255
S30	humans or people or individuals or human beings	3,249,607
S31	S29 AND S30	330,456
S32	S21 AND S31	13

13 trials.

5 Clinicaltrials.gov

Condition:	Carcinoma, Non-Small-Cell Lung
Other terms:	Brain metastases
Intervention/treatment:	Osimertinib

Filter: Interventional studies

29 trials found.

6 WHO Clinical trials Registry

lung cancer AND brain metast* AND osimertinib

17 trials found.

7 Trials identified

A review of all results gave a total of 2 eligible trials.

OUTRUN: A Randomised Phase II Trial of Osimertinib With or Without SRS for EGFR Mutated NSCLC With Brain Metastases. <https://ClinicalTrials.gov/show/NCT03497767>.

LUOSICNS: Study of Osimertinib + SRS vs Osimertinib Alone for Brain Metastases in EGFR Positive Patients With NSCLC. <https://ClinicalTrials.gov/show/NCT03769103>.