

Additional file

Detailed search strategies for databases

1. Search strategy for PubMed

#1 Glioma [Mesh Terms]

#2 (“glioma” OR “glioblastoma” OR “high-grade glioma” OR “HGG” OR “GBM” OR “malignant glioma”) [Title/Abstract]

#3 #1 OR #2

#4 Tumor treating fields [Mesh Terms]

#5 (“tumor treating fields” OR “tumor-treating fields” OR “TTFields” OR “alternating electric fields” OR “TTF”) [Title/Abstract]

#6 #4 OR #5

#7 Randomized Controlled Trial [Publication Type]

#8 (Randomized Controlled Trials OR Clinical Trials, Randomized OR Trials, Randomized Clinical OR Randomized) [Title/Abstract]

#9 #7 OR #8

#10 Humans [filter]

#11 Animals [filter]

#12 Case reports [filter]

#13 Editorial [filter]

#14 #11 OR #12 OR #13

#15 #3 AND #6 AND #9 AND #10 NOT #14

2. Search strategy for the Cochrane Library

#1 [Glioma] explode all trees

#2 (“glioma”):ab OR (“glioblastoma”):ab OR (“high-grade glioma”):ab OR (“HGG”):ab OR (“GBM”):ab OR (“malignant glioma”):ab

#3 #1 OR #2

#4 [Tumor treating fields] explode all trees

#5 (“tumor treating fields”):ab OR (“tumor-treating fields”):ab OR (“TTFields”):ab OR (“alternating electric fields”):ab OR (“TTF”):ab

#6 #4 OR #5

#7 (“Randomized Controlled Trial”):pt

#8 Humans [mh]

#9 Animals [mh]

#10 Case reports [mh]

#11 Editorial [mh]

#12 #9 OR #10 OR #11

#13 #3 AND #6 AND #7 AND #8 NOT #12

3. Search strategy for the EMBASE

#1 Glioma /exp

#2 (‘glioma’ OR ‘glioblastoma’ OR ‘high-grade glioma’ OR ‘HGG’ OR ‘GBM’ OR ‘malignant glioma’), :ti,ab,kw

#3 1-2/OR

#4 Tumor treating fields/exp

#5 ('tumor treating fields' OR 'tumor-treating fields' OR 'TTFields' OR 'alternating electric fields' OR 'TTF'), :ti,ab,kw

#6 4-5/OR

#7 randomized controlled trial/epx

#8 randomly. ti,ab,kw

#9 trial. ti,ab,kw

#10 7-9/ OR

#11 (exp animal/ or exp animal experiment/ or exp case reports/ or exp editorial)

#12 #3 AND #6 AND #10 NOT #11

4. Search strategy for web of science

(((((((((TS=(Tumor treating fields)) OR TS=(Tumor-treating fields)) OR

TS=(TTFields)) OR TS=(alternating electric fields)) OR TS=(TTF)) AND

TS=(Glioma)) OR TS=(glioblastoma)) OR TS=(high-grade glioma)) OR TS=(HGG))

OR TS=(GBM)) OR TS=(malignant glioma)

Refinement was performed by checking English and Chinese in the language options and by checking Thesis and Clinical Trial in the literature type.

5. Search strategy for China National Knowledge Infrastructure (CNKI)

(SU=胶质瘤 OR SU=胶质母细胞瘤 OR SU=恶性胶质瘤 OR SU=高级别胶质瘤

OR SU=IV 级胶质瘤 OR SU=III 级胶质瘤 OR SU=神经胶质瘤) AND (SU=电场

OR SU=电场治疗 OR SU=肿瘤治疗电场) AND (SU=随机 OR FT=随机)

6. Search strategy for Chinese Biomedical Literatures database (CBM)

#1 胶质瘤 OR 胶质母细胞瘤 OR 恶性胶质瘤 OR 高级别胶质瘤 OR IV 级胶质瘤 OR III 级胶质瘤 OR 神经胶质瘤

#2 主题词=胶质瘤/全部副主题词

#3 #1 OR #2

#5 电场 OR 电场治疗 OR 肿瘤治疗电场

#6 主题词=电场/全部副主题词

#7 #5 OR #6

#8 随机 OR 盲法 OR 安慰剂

#9 主题词=随机对照试验[文献类型]

#10 主题词=随机分配

#11 主题词=随机对照试验

#12 #8 OR #9 OR #10 OR #11

#13 #3 AND #7 AND 12

7. Search strategy for WANFANG data

主题:(胶质瘤+胶质母细胞瘤+恶性胶质瘤+高级别胶质瘤+IV 级胶质瘤+III 级胶质瘤+神经胶质瘤)*主题:(电场+电场治疗+肿瘤治疗电场)*随机

8. Search strategy for VIP database

“任意字段=胶质瘤 or 胶质母细胞瘤 or 恶性胶质瘤 or 高级别胶质瘤 or IV 级胶质瘤 or III 级胶质瘤 or 神经胶质瘤 and 电场 or 电场治疗 or 肿瘤治疗电场”