SUPPLEMENTARY MATERIALS

Supplementary Tables

Supplementary Table 1. MOOSE Checklist

Item No	Recommendation	Reported in Section	
Reporting	of background		
1	Problem definition	Introduction; Methods	
2	Hypothesis statement	Introduction	
3	Description of study outcome(s)	Methods	
4	Type of exposure or intervention used	Methods	
5	Type of study designs used	Methods; Table 1	
6	Study population	Methods; Table 1	
Reporting	of search strategy should include		
7	Qualifications of searchers (eg, librarians and investigators)	Methods	
8	Search strategy, including time period included in the synthesis and key words	Methods	
9	Effort to include all available studies, including contact with authors	Methods	
10	Databases and registries searched	Methods; Figure 1	
11	Search software used, name and version, including special features used (eg, explosion)	Methods	
12	Use of hand searching (eg, reference lists of obtained articles)	Methods	
13	List of citations located and those excluded, including justification	Figure 1; Supplementary Table 2	
14	Method of addressing articles published in languages other than English	Methods	
15	Method of handling abstracts and unpublished studies	Methods	
16	Description of any contact with authors	N/A	
Reporting	of methods should include		
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	Methods	

18	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	Methods	
19	Documentation of how data were classified and coded (eg, multiple raters, blinding and interrater reliability)	Methods	
20	Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	Methods	
21	Assessment of study quality, including blinding of quality assessors, stratification or regression on possible predictors of study results	Methods	
22	Assessment of heterogeneity	Methods	
23	Description of statistical methods (eg, complete description of fixed or random effects models, justification of whether the chosen models account for predictors of study results, dose- response models, or cumulative meta-analysis) in sufficient detail to be replicated	Methods	
24	Provision of appropriate tables and graphics	Figures 1-2; Tables 1-3	
Reporting	g of results should include		
25	Graphic summarizing individual study estimates and overall estimate	Figures 2; Tables 2-3	
26	Table giving descriptive information for each study included	Table 2	
27	Results of sensitivity testing (eg, subgroup analysis)	Results; Figure 2	
28	Indication of statistical uncertainty of findings	Results; Figures 2; Tables 2-3	
Reporting	g of discussion should include		
29	Quantitative assessment of bias (eg, publication bias)	Methods	
30	Justification for exclusion (eg, exclusion of non-English language citations)	Methods	
31	Assessment of quality of included studies	Methods; Figure 1	
Reporting	g of conclusions should include		
32	Consideration of alternative explanations for observed results	Discussion	
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	Conclusion	
34	Guidelines for future research	Discussion; Conclusion	
35	Disclosure of funding source	Title Page	

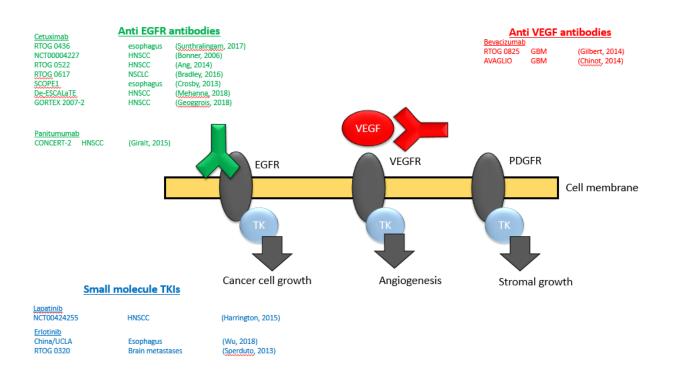
Author Reason for **Study Name** name PMID Year exclusion RTKi was delivered sequentially, rather than concurrently SWOG S0023 2008 Kelly 18378568 with RT RTKi and radiotherapy are given in both arms Sweigert 27511844 2016 RTKi and radiotherapy are Ghi 28911070 2017 given in both arms Did not provide HR for survival Govindan Trial 30407 21747084 2011 Did not provide HR Lefebvre TREMPLIN 2013 for survival 23341517 Did not provide HR for survival Salma 21330337 2011 RTKi and **GORTEC 2007**radiotherapy are 2018 given in both arms Tao 01 29878867 RTKi was delivered sequentially, rather than concurrently Hammell LAP-07 27139057 2016 with RT RT was given via accelerated fractionation in both Gillison RTOG 1016 30449625 2018 arms Did not provide HR RTOG 0839 28629896 2017 for survival Edelman

Supplementary Table 2. Rationale for exclusion of individual studies following initial screening process^a

^aRTKi, receptor tyrosine kinase inhibitor; HR, hazard ratio, RT, radiotherapy

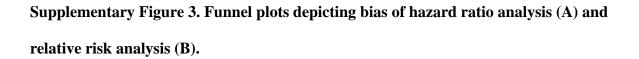
Supplementary Figures

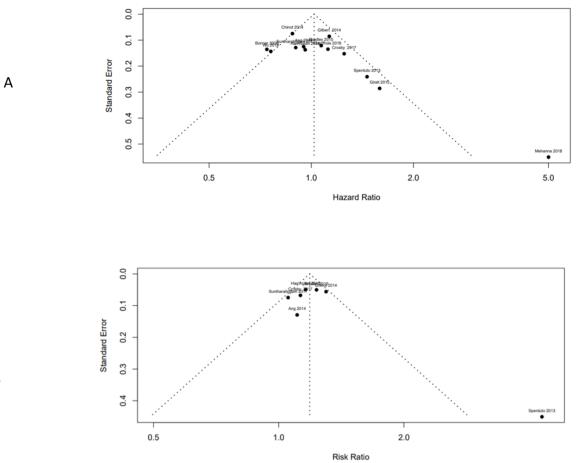
Supplementary Figure 1. Mechanism of Action of Small Molecule and Antibody RTKi's.



	Random Sequence Generation (Selection bas)	Allocation Concealment (Selection bias)	Blinding (Performance bias and detection bias): Survival	Blinding (Performance bias and detection bias): Toxicity	Incomplete Outcome Data (Attrition bias): Survival	Incomplete Outcome Data (Attrition bias): Toxicity	Selective reporting (Reporting bias)	Other Bias
Harrington et al	~	-	-	-	~	~	~	~
Wu et al	~	-	-	NA	-	NA	~	٧
Sperduto et al	~	-	-	-	-	-	-	-
Ang et al	~	-	-	-	-	-	-	-
Bradley et al	-	-	-	-	-	-	-	-
Crosby et al	~	-	-	-	-	-	-	-
Suntharalingam et al	-	-	-	NA	-	NA	-	-
Bonner et al	~	-	-	NA	-	NA	-	-
Chinot et al	~	-	-	-	-	-	-	-
Gilbert et al	~	-	-	NA	-	NA	-	-
Mehanna et al	~	-	-	NA	-	NA	-	-
Geoffris et al	-	-	-	NA	-	NA	-	-
Giralt et al	-	-	-	NA	-	NA	-	-

Supplementary Figure 2. Bias in the articles evaluated.





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