

Supplementary material to:

Discordance of PIK3CA mutational status between primary and metastatic breast cancer: A systematic review and meta-analysis

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Total number of supplementary-only material: 1 Supplementary Figure and Supplementary Methods

Supplementary Methods: Searching strategy in PubMed/Web of Science and Embase

A) PubMed/Web of Science

Search terms		Items found
Population: Primary and metastatic breast cancer		
1	(breast cancer*[Title/Abstract]) OR (breast malignan*[Title/Abstract]) OR (breast neoplas*[Title/Abstract]) OR (breast carcinoma*[Title/Abstract]) OR (breast tumo*[Title/Abstract])	363,248
2	(metasta*[Title/Abstract]) OR (primary[Title/Abstract]) OR (secondary[Title/Abstract]) OR (disseminated[Title/Abstract])	2,886,289
1 AND 2		154,702
Exposure: PIK3CA		
3	PIK3CA	6,967
Combined sets		
1 AND 2 AND 3		832

Searching strategy:

PIK3CA[Title/Abstract] AND ((breast cancer*[Title/Abstract]) OR (breast malignan*[Title/Abstract]) OR (breast neoplas*[Title/Abstract]) OR (breast carcinoma*[Title/Abstract]) OR (breast tumo*[Title/Abstract])) AND ((metasta*[Title/Abstract]) OR (primary[Title/Abstract]) OR (secondary[Title/Abstract]) OR (disseminated[Title/Abstract]))

B) Embase

No.	Query	Results
#7	#5 NOT #6	623
#6	#3 AND #4 AND ([conference abstract]/lim OR [conference paper]/lim OR [conference review]/lim)	1241
#5	#3 AND #4	1864
#4	pik3ca:ti,ab	14587
#3	#1 AND #2	172958
#2	metasta*:ti,ab OR primary:ti,ab OR secondary:ti,ab OR disseminated:ti,ab	3997986
#1	'breast cancer*':ti,ab OR 'breast malignan*':ti,ab OR 'breast neoplas*':ti,ab OR 'breast carcinoma*':ti,ab OR 'breast tumo*':ti,ab	510930

Supplementary Figure Legends

Supplementary Figure 1. Funnel plots assessing publication bias, for studies reporting *PIK3CA* mutational status pooled discordance rates. A. Overall discordance rate; B. Overall discordance rate from *PIK3CA*-mutated to *PIK3CA*-wild-type; C. Overall discordance rate from *PIK3CA*-wild-type to *PIK3CA*-mutated