## Supplementary materials

Source: PubMed (Searched on: 5 June 2018)		
Search	Query	Items
	Query	found
#118	Search #117 AND #95 AND #93	249
	Search #96 OR #97 OR #98 OR #99 OR #100 OR #101 OR #102	
#117	OR #103 OR #104 OR #105 OR #106 OR #107 OR #108 OR	1194648
//11/	#109 OR #110 OR #111 OR #112 OR #113 OR #114 OR #115	1171010
	OR #116	
#116	Search tripleblind*[Title/Abstract]	3
#115	Search trebleblind*[Title/Abstract]	0
#114	Search doubleblind*[Title/Abstract]	227
#113	Search singleblind*[Title/Abstract]	14
#112	Search blind*[Title/Abstract]	266997
#111	Search random*[Title/Abstract]	978600
#110	Search "Double-Blind Method"[Mesh]	145896
#109	Search "Single-Blind Method"[Mesh]	25194
#108	Search "Pragmatic Clinical Trials as Topic"[Title/Abstract]	4
#107	Search "Randomized Controlled Trials"[Publication Type]	0
#106	Search "Controlled Clinical Trials"[Publication Type]	0
#105	Search "Clinical Trials, Phase IV"[Publication Type]	0
#104	Search "Clinical Trials, Phase III"[Publication Type]	0
#103	Search "Clinical Trials, Phase II"[Publication Type]	0
#102	Search "Pragmatic Clinical Trials as Topic"[Mesh]	188
#101	Search "Intention to Treat Analysis" [Mesh]	2048
#100	Search "Randomized Controlled Trials as Topic"[Mesh]	118445
#99	Search "Controlled Clinical Trials as Topic"[Mesh]	123315
#98	Search "Clinical Trials, Phase IV as Topic"[Mesh]	267
#97	Search "Clinical Trials, Phase III as Topic"[Mesh]	8231
#96	Search "Clinical Trials, Phase II as Topic"[Mesh]	7024
#95	Search #5 OR #9 OR #18 OR #29 OR #32 OR #40 OR #49 OR #56	8941
	Search #57 OR #58 OR #59 OR #60 OR #61 OR #62 OR #63 OR	
	#64 OR #65 OR #66 OR #67 OR #68 OR #69 OR #70 OR #71 OR	
#94	#72 OR #73 OR #74 OR #75 OR #76 OR #77 OR #78 OR #79 OR	335222
	#80 OR #81 OR #82 OR #83 OR #84 OR #85 OR #86 OR #87 OR	
	#88 OR #89 OR #90 OR #91 OR #92 OR #93	
#93	Search "Mammary Neoplasm, Human"[Title/Abstract]	0
#92	Search "Neoplasms, Human Mammary"[Title/Abstract]	0
#91	Search "Neoplasm, Human Mammary"[Title/Abstract]	0
#90	Search "Human Mammary Neoplasms"[Title/Abstract]	4
#89	Search "Human Mammary Neoplasm"[Title/Abstract]	0
#88	Search "Mammary Neoplasms, Human"[Title/Abstract]	0
#87	Search "Mammary Carcinomas, Human"[Title/Abstract]	0
#86	Search "Human Mammary Carcinomas"[Title/Abstract]	155

#85	Search "Carcinomas, Human Mammary"[Title/Abstract]	0
#84	Search "Carcinoma, Human Mammary"[Title/Abstract]	0
#83	Search "Mammary Carcinoma, Human"[Title/Abstract]	0
#82	Search "Carcinomas, Breast"[Title/Abstract]	0
#81	Search "Carcinoma, Breast"[Title/Abstract]	1
#80	Search "Breast Carcinomas"[Title/Abstract]	7831
#79	Search "Breast Carcinoma"[Title/Abstract]	23270
#78	Search "Cancer of Breast"[Title/Abstract]	98
#77	Search "Breast Malignant Tumors" [Title/Abstract]	17
#76	Search "Breast Malignant Tumor"[Title/Abstract]	10
#75	Search "Malignant Tumor of Breast" [Title/Abstract]	3
#74	Search "Breast Malignant Neoplasms" [Title/Abstract]	2
#73	Search "Breast Malignant Neoplasm"[Title/Abstract]	2
#72	Search "Malignant Neoplasm of Breast" [Title/Abstract]	3
#71	Search "Mammary Cancers" [Title/Abstract]	426
#70	Search "Cancers, Mammary"[Title/Abstract]	0
#69	Search "Cancer, Mammary"[Title/Abstract]	3
#68	Search "Mammary Cancer"[Title/Abstract]	2993
#67	Search "Cancer of the Breast"[Title/Abstract]	2778
#66	Search "Cancer, Breast"[Title/Abstract]	10
#65	Search "Breast Cancer"[Title/Abstract]	235278
#64	Search "Neoplasm, Breast"[Title/Abstract]	1
#63	Search "Breast Neoplasm"[Title/Abstract]	597
#62	Search "Neoplasms, Breast"[Title/Abstract]	0
#61	Search "Tumor, Breast"[Title/Abstract]	1
#60	Search "Breast Tumor"[Title/Abstract]	8653
#59	Search "Breast Tumors"[Title/Abstract]	10255
#58	Search "Tumors, Breast"[Title/Abstract]	1
#57	Search "Breast Neoplasms" [Mesh]	263603
#56	Search #50 OR #51 OR #52 OR #53 OR #54 OR #55	299
#55	Search "PD-0332991"[Title/Abstract]	75
#54	Search "PD0332991"[Title/Abstract]	65
#53	Search "PD 0332991"[Title/Abstract]	75
#52	Search "Ibrance"[Title/Abstract]	14
	Search	
#51	"6-acetyl-8-cyclopentyl-5-methyl-2-(5-piperazin-1-ylpyridin-2-yla	0
	mino)-8H-pyrido(2,3-d)pyrimidin-7-one"[Title/Abstract]	
#50	Search "palbociclib" [Supplementary Concept]	245
U.40	Search #41 OR #42 OR #43 OR #44 OR #45 OR #46 OR #47 OR	22.66
#49	#48	3368
#48	Search "Faslodex"[Title/Abstract]	214
#47	Search "ZM-182780"[Title/Abstract]	18
#46	Search "ZM 182780"[Title/Abstract]	18
#45	Search "ICI-182780"[Title/Abstract]	456

#44	Search "ICI 182,780"[Title/Abstract]	1767
#43	Search "ICI 182780"[Title/Abstract]	456
#42	Search "7-(9-(4,4,5,5,5-pentafluoropentylsulfinyl)nonyl)estra-1,3,5(10)-tri	0
+ <del>4</del> 2	ene-3,17-diol"[Title/Abstract]	U
<b>#4</b> 1	Search "fulvestrant" [Supplementary Concept]	2123
<del>-4</del> 1	Search Search #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR	2123
<b>#40</b>	#39	819
#39	Search Zactima[Title/Abstract]	38
#38	Search vandetanib[Title/Abstract]	603
<b>#37</b>	Search "ZD-6474"[Title/Abstract]	10
#36	Search "ZD6474"[Title/Abstract]	190
<i>‡</i> 35	Search "ZD 6474"[Title/Abstract]	10
#34	Search caprelsa[Title/Abstract]	12
	Search	
#33	"N-(4-bromo-2-fluorophenyl)-6-methoxy-7-((1-methylpiperidin-4-	458
	yl)methoxy)quinazolin-4-amine" [Supplementary Concept]	
<i>‡</i> 32	Search #30 OR #31	68
<i>‡</i> 31	Search LEE011[Title/Abstract]	38
£30	Search "ribociclib" [Supplementary Concept]	50
<b>112</b> 0	Search #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR	40.57
‡29	#26 OR #27 OR #28	4057
<sup>‡</sup> 28	Search "Certican"[Title/Abstract]	70
27	Search "Afinitor"[Title/Abstract]	53
<sup>‡</sup> 26	Search "RAD001"[Title/Abstract]	478
‡25	Search "001, RAD"[Title/Abstract]	2
<sup>‡</sup> 24	Search "RAD 001"[Title/Abstract]	32
#23	Search "40-O-(2-hydroxyethyl)-rapamycin"[Title/Abstract]	25
<sup>#</sup> 22	Search "SDZ-RAD"[Title/Abstract]	66
#21	Search "RAD, SDZ"[Title/Abstract]	0
#20	Search " SDZ RAD"[Title/Abstract]	66
#19	Search "Everolimus" [Mesh]	3838
<i>‡</i> 18	Search #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17	165
#17	Search "CHIR-258"[Title/Abstract]	11
#1 <i>7</i> #16	Search "CHIR-238 [Title/Abstract] Search "CHIR258"[Title/Abstract]	5
#16 #15	Search "CHIR 258"[Title/Abstract]	3 11
+13 +14	Search "dovitinib"[Title/Abstract]	122
#1 <del>4</del> #13	Search "TKI-258"[Title/Abstract]	122
	-	
#12 #11	Search TKI258[Title/Abstract]	50
#11	Search "TKI 258"[Title/Abstract]	10
#10	Search "4-amino-5-fluoro-3-(5-(4-methylpiperazin-1-yl)-1H-benzimidazol	96
+1 <b>U</b>	* * * * * * * * * * * * * * * * * * * *	90
	-2-yl)quinolin-2(1H)-one" [Supplementary Concept]	

#9	Search #6 OR #7 OR #8	248
#8	Search BKM120[Title/Abstract]	169
#7	Search buparlisib[Title/Abstract]	78
#6	Search "NVP-BKM120" [Supplementary Concept]	135
#5	Search #1 OR #2 OR #3 OR #4	104
#4	Search LY2385219[Title/Abstract]	0
#3	Search LY2835210[Title/Abstract]	0
#2	Search abemaciclib[Title/Abstract]	97
	Search	
#1	"5-(4-ethylpiperazin-1-ylmethyl)pyridin-2-yl)-(5-fluoro-4-(7-fluor	34
	o-3-isopropyl-2-methyl-3H-benzimidazol-5-yl)pyrimidin-2-yl)ami	34
	ne" [Supplementary Concept]	

	Source: EMBASE (Searched on: 5 June 2018)	
No.	Query	Results
#151	#125 AND #135 AND #150	1814
#150	#136 OR #137 OR #138 OR #139 OR #140 OR #141 OR #142 OR #143 OR #144 OR #145 OR #146 OR #147 OR #148 OR #149	1605765
#149	'tripleblind*':ab,ti	7
#148	'trebleblind*':ab,ti	0
#147	'doubleblind*':ab,ti	2801
#146	'singleblind*':ab,ti	227
#145	'blind*':ab,ti	369624
#144	'random*':ab,ti	1293251
#143	'double blind procedure'/exp	149249
#142	'single blind procedure'/exp	31422
#141	'randomized controlled trial (topic)'/exp	142073
#140	'controlled clinical trial (topic)'/exp	147995
#139	'phase 4 clinical trial (topic)'/exp	1374
#138	'phase 3 clinical trial (topic)'/exp	31042
#137	'phase 2 clinical trial (topic)'/exp	30556
#136	'multicenter study (topic)'/exp	26177
#135	#126 OR #127 OR #128 OR #129 OR #130 OR #131 OR #132 OR #133 OR #134	412000
#134	'mammary gland cancer':ab,ti	205
#133	'mammary cancer':ab,ti	3767
#132	'mamma cancer':ab,ti	18
#131	'cancer, breast':ab,ti	2639
#130	'breast gland neoplasm':ab,ti	0
#129	'breast gland cancer':ab,ti	0
#128	'breast cancer recurrence':ab,ti	2121
#127	'advanced breast cancer':ab,ti	11292
#126	'breast cancer'/exp	408502
#125	#9 OR #26 OR #44 OR #58 OR #77 OR #88 OR #108 OR #124	37127
#124	#109 OR #110 OR #111 OR #112 OR #113 OR #114 OR #115 OR #116 OR #117 OR #118 OR #119 OR #120 OR #121 OR #122 OR #123	22992
#123	'everolimus'/exp	22934
#122	'zortress':ab,ti	5
#121	'votubia':ab,ti	5
#120	'sdz rad':ab,ti	67
#119	'rad001a':ab,ti	0
#118	'rad001':ab,ti	1041
#117	'rad 001a':ab,ti	0
#116	'rad 001':ab,ti	55
#115	'nvp rad001':ab,ti	2

#114	'nvp rad 001':ab,ti	0
#113	'certican':ab,ti	122
#112	'afinitor disperz':ab,ti	0
#111	'afinitor':ab,ti	104
#110	'affinitor':ab,ti	4
#109	'40 o (2 hydroxyethyl) rapamycin':ab,ti	28
	#89 OR #90 OR #91 OR #92 OR #93 OR #94 OR #95 OR #96 OR #97	
#108	OR #98 OR #99 OR #100 OR #101 OR #102 OR #103 OR #104 OR	1919
	#105 OR #106 OR #107	
#107	'pf00080665-73':ab,ti	0
#106	'pf00080665 73':ab,ti	0
#105	'pf 00080665-73':ab,ti	0
<sup>#</sup> 104	'pf 00080665 73':ab,ti	0
#103	'pd332991':ab,ti	9
#102	'pd0332991-0054':ab,ti	0
#101	'pd0332991 0054':ab,ti	0
#100	'pd0332991':ab,ti	131
<del>/</del> 99	'pd 332991':ab,ti	3
<del>#</del> 98	'pd 0332991-0054':ab,ti	0
<sup>‡</sup> 97	'pd 0332991 0054':ab,ti	0
<del>#</del> 96	'pd 0332991':ab,ti	206
<del>‡</del> 95	'palbociclib isethionate':ab,ti	0
#9 <b>4</b>	'ibrance':ab,ti	29
#93	'6 acetyl 8 cyclopentyl 5 methyl 2 [[5 (piperazin 1 yl) pyridin 2 yl] amino] pyrido [2, 3 d] pyrimidin 7 (8h) one':ab,ti	1
# <b>9</b> 2	'6 acetyl 8 cyclopentyl 5 methyl 2 [[5 (1 piperazinyl) 2 pyridinyl] amino] pyrido [2, 3 d] pyrimidin 7 (8h) one':ab,ti	0
# <b>9</b> 1	'6 acetyl 8 cyclopentyl 5 methyl 2 [5 (piperazin 1 yl) pyridin 2 ylamino] 8h pyrido [2, 3 d] pyrimidin 7 one':ab,ti	0
<b>#90</b>	'6 acetyl 8 cyclopentyl 5 methyl 2 [5 (1 piperazinyl) 2 pyridinylamino] 8h pyrido [2, 3 d] pyrimidin 7 one':ab,ti	0
<sup>#</sup> 89	'palbociclib'/exp	1910
#88	#78 OR #79 OR #80 OR #81 OR #82 OR #83 OR #84 OR #85 OR #86 OR #87	4098
<i>‡</i> 87	'zd6474':ab,ti	240
<sup>‡</sup> 86	'zd 6474':ab,ti	17
<sup>‡</sup> 85	'zactima':ab,ti	57
#84	'vandetinib':ab,ti	22
#83	'n (4 bromo 2 fluorophenyl) 6 methoxy 7 (1 methylpiperidin 4 ylmethoxy) quinazolin 4 amine':ab,ti	0

#82	'n (4 bromo 2 fluorophenyl) 6 methoxy 7 (1 methyl 4	0
#02	piperidinylmethoxy) 4 quinazolinamine':ab,ti	U
#81	'caprelsa':ab,ti	24
<sup>#</sup> 80	'azd6474':ab,ti	0
<sup>‡</sup> 79	'azd 6474':ab,ti	0
<sup>#</sup> 78	'vandetanib'/exp	4073
	#59 OR #60 OR #61 OR #62 OR #63 OR #64 OR #65 OR #66 OR #67	
#77	OR #68 OR #69 OR #70 OR #71 OR #72 OR #73 OR #74 OR #75 OR	545
	#76	
#76	'ribociclib succinate':ab,ti	0
#75	'ribociclib butanedioate':ab,ti	0
#74	'lee11bba':ab,ti	0
#73	'lee11a':ab,ti	0
#72	'lee11':ab,ti	0
#71	'lee011bba':ab,ti	0
#70	'lee011a':ab,ti	0
#69	'lee011':ab,ti	111
#68	'lee 11bba':ab,ti	0
#67	'lee 11a':ab,ti	0
#66	'lee 11':ab,ti	1
#65	'lee 011bba':ab,ti	0
#64	'lee 011a':ab,ti	0
#63	'lee 011':ab,ti	2
#62	'kisqali':ab,ti	8
	'7 cyclopentyl n, n dimethyl 2 [[5 (piperazin 1 yl) pyridin 2 yl] amino] 7h	
#61	pyrrolo [2, 3 d] pyrimidine 6 carboxamide':ab,ti	0
	pyrroto [2, 5 d] pyrimidine o carboxamide .ab,ti	
11.60	'7 cyclopentyl n, n dimethyl 2 [[5 (1 piperazinyl) 2 pyridinyl] amino] 7h	0
#60	pyrrolo [2, 3 d] pyrimidine 6 carboxamide':ab,ti	0
#59	'ribociclib'/exp	528
	#45 OR #46 OR #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53	320
#58	OR #54 OR #55 OR #56 OR #57	8204
#57	'zm182780':ab,ti	0
#56	'zm 182780':ab,ti	18
#55	'zd9238':ab,ti	0
#54	'zd182780':ab,ti	0
#53	'zd 9238':ab,ti	0
#52	'zd 182780':ab,ti	0
#52 #51	'ici182780':ab,ti	236
#51 #50	'ici 182780':ab,ti	530
#30 #49	'ici 182, 780':ab,ti	2274
# <del>4</del> 9 #48	'ici 182 780':ab,ti	2274
	·	
#47	'faslodex':ab,ti	307

#46	'7alpha [9 (4, 4, 5, 5, 5 pentafluoropentylsulfinyl) nonyl] estra 1, 3, 5	0
	(10) triene 3, 17beta diol':ab,ti	
#45	'fulvestrant'/exp	7511
#44	#36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43	904
#43	'tki258':ab,ti	116
#42	'tki 258':ab,ti	26
#41	'dovitinib lactate':ab,ti	5
#40	'chir258':ab,ti	8
#39	'chir 258':ab,ti	15
#38	'4 amino 5 fluoro 3 [6 (4 methylpiperazin 1 yl) 1h benzimidazol 2 yl] quinolin 2 (1h) one':ab,ti	0
#37	'4 amino 5 fluoro 3 [6 (4 methyl 1 piperazinyl) 1h benzimidazol 2 yl] 2 (1h) quinolinone':ab,ti	0
#36	'dovitinib'/exp	888
#35	#27 OR #28 OR #29 OR #30 OR #31 OR #32 OR #33 OR #34	904
#34	'tki258':ab,ti	116
#33	'tki 258':ab,ti	26
#32	'dovitinib lactate':ab,ti	5
#31	'chir258':ab,ti	8
#30	'chir 258':ab,ti	15
#29	'4 amino 5 fluoro 3 [6 (4 methylpiperazin 1 yl) 1h benzimidazol 2 yl] quinolin 2 (1h) one':ab,ti	0
#28	'4 amino 5 fluoro 3 [6 (4 methyl 1 piperazinyl) 1h benzimidazol 2 yl] 2 (1h) quinolinone':ab,ti	0
#27	'dovitinib'/exp	888
#26	#10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25	1413
#25	'nvp bkm120':ab,ti	106
#24	'nvp bkm 120':ab,ti	9
#23	'buparlisib hydrochloride':ab,ti	0
#22	'bkm120nx':ab,ti	0
#21	'bkm120aaa':ab,ti	0
#20	'bkm120 nx':ab,ti	0
#19	'bkm120 aaa':ab,ti	0
#18	'bkm120':ab,ti	528
#17	'bkm 120nx':ab,ti	0
#16	'bkm 120aaa':ab,ti	0
#15	'bkm 120 nx':ab,ti	0
#14	'bkm 120 aaa':ab,ti	0
#13	'bkm 120':ab,ti	63
$\pi 1 J$		

#11	'5 (2, 6 dimorpholino 4 pyrimidinyl) 4 (trifluoromethyl) 2	0
#10	pyridinamine':ab,ti 'buparlisib'/exp	1358
#9	#1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8	415
#8	'n [5 [(4 ethylpiperazin 1 yl) methyl] pyridin 2 yl] 5 fluoro 4 [4 fluoro 2 methyl 1 (propan 2 yl) 1h benzimidazol 6 yl] pyrimidin 2 amine':ab,ti	0
#7	'n [5 [(4 ethylpiperazin 1 yl) methyl] pyridin 2 yl] 5 fluoro 4 [4 fluoro 2 methyl 1 (1 methylethyl) 1h benzimidazol 6 yl] pyrimidin 2 amine':ab,ti	0
#6	'n [5 [(4 ethyl 1 piperazinyl) methyl] 2 pyridinyl] 5 fluoro 4 [4 fluoro 2 methyl 1 (1 methylethyl) 1h benzimidazol 6 yl] 2 pyrimidinamine':ab,ti	0
#5	'n [5 [(4 ethyl 1 piperazinyl) methyl] 2 pyridinyl] 5 fluoro 4 (4 fluoro 1 isopropyl 2 methyl 1h benzimidazol 6 yl) 2 pyrimidinamine':ab,ti	0
#4	'ly2835219':ab,ti	56
#3	'ly 2835219':ab,ti	0
#2	'bemaciclib':ab,ti	0
#1	'abemaciclib'/exp	407

Sourc	e: Cochrane Library (Searched on: 5 June 2018)

No.	Query
#1	abemaciclib:ti,ab,kw (Word variations have been searched)
#2	LY2835210:ti,ab,kw (Word variations have been searched)
#3	LY2385219:ti,ab,kw (Word variations have been searched)
#4	#1 or #2 or #3
#5	"NVP-BKM120":ti,ab,kw (Word variations have been searched)
#6	buparlisib:ti,ab,kw (Word variations have been searched)
#7	BKM120:ti,ab,kw (Word variations have been searched)
#8	#5 or #6 or #7
#9	"4-amino-5-fluoro-3-(5-(4-methylpiperazin-1-yl)-1H-benzimidazol-2-yl)quinolin-2(1H)-one ":ti,ab,kw" (Word variations have been searched)
#10	"TKI 258":ti,ab,kw (Word variations have been searched)
#11	TKI258:ti,ab,kw (Word variations have been searched)
#12	"TKI-258":ti,ab,kw (Word variations have been searched)
#13	dovitinib:ti,ab,kw (Word variations have been searched)
#14	"CHIR 258":ti,ab,kw (Word variations have been searched)
#15	CHIR258:ti,ab,kw (Word variations have been searched)
#16	"CHIR-258":ti,ab,kw (Word variations have been searched)
#17	#9 or #10 or #11 or #12 or #13 or #14 or #15 or #16
#18	MeSH descriptor: [Everolimus] explode all trees
#19	"SDZ RAD":ti,ab,kw (Word variations have been searched)
#20	"RAD, SDZ":ti,ab,kw (Word variations have been searched)
#21	"SDZ-RAD":ti,ab,kw (Word variations have been searched)
#22	"40-O-(2-hydroxyethyl)-rapamycin":ti,ab,kw (Word variations have been searched)
#23	"RAD 001":ti,ab,kw (Word variations have been searched)
#24	"001, RAD":ti,ab,kw (Word variations have been searched)
#25	"RAD001":ti,ab,kw (Word variations have been searched)
#26	"Afinitor":ti,ab,kw (Word variations have been searched)
#27	"Certican":ti,ab,kw (Word variations have been searched)
#28	#18 or #19 or #20 or #21 or #22 or #23 or #24 or #25 or #26 or #27

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#29 ribociclib:ti,ab,kw (Word variations have been searched)
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- #30 LEE011:ti,ab,kw (Word variations have been searched)
- #31 #29 or #30
- #32 "N-(4-bromo-2-fluorophenyl)-6-methoxy-7-((1-methylpiperidin-4-yl)methoxy)quinazolin-4-amin e ":ti,ab,kw (Word variations have been searched)
- #33 caprelsa:ti,ab,kw (Word variations have been searched)
- #34 "ZD 6474":ti,ab,kw (Word variations have been searched)
- #35 ZD6474:ti,ab,kw (Word variations have been searched)
- #36 "ZD-6474":ti,ab,kw (Word variations have been searched)
- #37 "vandetanib":ti,ab,kw (Word variations have been searched)
- #38 "Zactima":ti,ab,kw (Word variations have been searched)
- #39 #32 or #33 or #34 or #35 or #36 or #37 or #38
- #40 fulvestrant:ti,ab,kw (Word variations have been searched)
- #41 "7-(9-(4,4,5,5,5-pentafluoropentylsulfinyl)nonyl)estra-1,3,5(10)-triene-3,17-diol":ti,ab,kw (Word variations have been searched)
- #42 "ICI 182780":ti,ab,kw (Word variations have been searched)
- #43 "ICI 182,780":ti,ab,kw (Word variations have been searched)
- #44 "ICI-182780":ti,ab,kw (Word variations have been searched)
- #45 "ZM 182780":ti,ab,kw (Word variations have been searched)
- #46 "ZM-182780":ti,ab,kw (Word variations have been searched)
- #47 "Faslodex":ti,ab,kw (Word variations have been searched)
- #48 #40 or #41 or #42 or #43 or #44 or #45 or #46 or #47
- #49 palbociclib:ti,ab,kw (Word variations have been searched)
- #50 "6-acetyl-8-cyclopentyl-5-methyl-2-(5-piperazin-1-ylpyridin-2-ylamino)-8H-pyrido(2,3-d)py rimidin-7-one":ti,ab,kw (Word variations have been searched)
- #51 "Ibrance":ti,ab,kw (Word variations have been searched)
- #52 "PD 0332991":ti,ab,kw (Word variations have been searched)
- #53 "PD0332991":ti,ab,kw (Word variations have been searched)
- #54 "PD-0332991":ti,ab,kw (Word variations have been searched)
- #55 #49 or #50 or #51 or #52 or #53 or #54
- #56 #4 or #8 or #17 or #28 or #31 or #39 or #48 or #55
- #57 MeSH descriptor: [Breast Neoplasms] explode all trees

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#58 "Tumors, Breast":ti,ab,kw (Word variations have been searched)
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- #59 "Breast Tumors":ti,ab,kw (Word variations have been searched)
- #60 "Breast Tumor":ti,ab,kw (Word variations have been searched)
- #61 "Tumor, Breast":ti,ab,kw (Word variations have been searched)
- #62 "Neoplasms, Breast":ti,ab,kw (Word variations have been searched)
- #63 "Breast Neoplasm":ti,ab,kw (Word variations have been searched)
- #64 "Neoplasm, Breast":ti,ab,kw (Word variations have been searched)
- #65 "Breast Cancer":ti,ab,kw (Word variations have been searched)
- #66 "Cancer, Breast":ti,ab,kw (Word variations have been searched)
- #67 "Cancer of the Breast":ti,ab,kw (Word variations have been searched)
- #68 "Mammary Cancer":ti,ab,kw (Word variations have been searched)
- #69 "Cancer, Mammary":ti,ab,kw (Word variations have been searched)
- #70 "Cancers, Mammary":ti,ab,kw (Word variations have been searched)
- #71 "Mammary Cancers":ti,ab,kw (Word variations have been searched)
- #72 "Malignant Neoplasm of Breast":ti,ab,kw (Word variations have been searched)
- #73 "Breast Malignant Neoplasm":ti,ab,kw (Word variations have been searched)
- #74 "Breast Malignant Neoplasms":ti,ab,kw (Word variations have been searched)
- #75 "Malignant Tumor of Breast":ti,ab,kw (Word variations have been searched)
- #76 "Breast Malignant Tumor":ti,ab,kw (Word variations have been searched)
- #77 "Breast Malignant Tumors":ti,ab,kw (Word variations have been searched)
- #78 "Cancer of Breast":ti,ab,kw (Word variations have been searched)
- #79 "Breast Carcinoma":ti,ab,kw (Word variations have been searched)
- #80 "Breast Carcinomas":ti,ab,kw (Word variations have been searched)
- #81 "Carcinoma, Breast":ti,ab,kw (Word variations have been searched)
- #82 "Carcinomas, Breast":ti,ab,kw (Word variations have been searched)
- #83 "Mammary Carcinoma, Human":ti,ab,kw (Word variations have been searched)
- #84 "Carcinoma, Human Mammary":ti,ab,kw (Word variations have been searched)
- #85 "Carcinomas, Human Mammary":ti,ab,kw (Word variations have been searched)
- #86 "Human Mammary Carcinomas":ti,ab,kw (Word variations have been searched)
- #87 "Mammary Carcinomas, Human":ti,ab,kw (Word variations have been searched)

#88	"Human Mammary Carcinoma":ti,ab,kw (Word variations have been searched)
#89	"Mammary Neoplasms, Human":ti,ab,kw (Word variations have been searched)
#90	"Human Mammary Neoplasm":ti,ab,kw (Word variations have been searched)
#91	"Human Mammary Neoplasms":ti,ab,kw (Word variations have been searched)
#92	"Neoplasm, Human Mammary":ti,ab,kw (Word variations have been searched)
#93	"Neoplasms, Human Mammary":ti,ab,kw (Word variations have been searched)
#94	"Mammary Neoplasm, Human":ti,ab,kw (Word variations have been searched)
	#57 or #58 or #59 or #60 or #61 or #62 or #63 or #64 or #65 or #66 or #67 or #68 or #69 or #70
#95	or #71 or #72 or #73 or #74 or #75 or #76 or #77 or #78 or #79 or #80 or #81 or #82 or #83 or
	#84 or #85 or #86 or #87 or #88 or #89 or #90 or #91 or #92 or #93 or #94
#96	#56 and #95

ID	study	clinicaltria.gov	author	year
1	MONARCH2	NCT02107703	George W. Sledge	2017
2		NCT01528345	Antonino Musolino	2017
3	PrECOG 0102		NS Kornblum	2018
4	BELLE-2	NCT01610284	José Baselga	2017

5	FERGI	NCT0143 <b>7</b> 566	Ian E Krop	2016
6	PALOMA-3	NCT01942135	Massimo Cristofanilli	2016
7	a New York Cancer Consortium trial	NCT01142401	Kerin Adelson	2016
8	the OCOG ZAMBONEY study	NCT00811369	Mark J. Clemons	2014

9	BELLE-3	NCT01633060	Angelo Di Leo	2017
10	MONALEESA-3	NCT02422615	Dennis J. Slamon	2018
11	SAKK 21/08	NCT01160718	Khalil Zamana	2015

journal	foundation	study design
Journalof Clinical Oncology	Oncology (Inst),	phase III, randomized, double-blind, placebo-controlled study
Breast Cancer Research	Novartis Pharmaceuticals (Basel, Switzerland).	
JOURNAL OF CLINICAL ONCOLOGY		randomized, double-blind, placebo-controlled phase II trial.
Lancet Oncology	Novartis	randomised, double-blind, placebo-controlled, phase 3 trial

Lancet Oncology	F Hoff mann-La Roche.	international, multicentre, randomised, double-blind, placebo- controlled, phase 2 clinical trial
Lancet Oncology	Pfizer	prospective, randomised, double-blind, placebo-controlled phase 3 trial done
Nature partner journals(Breast Cancer)		open-label, multicenter, randomized phase II trial
Breast Cancer Research and Treatment		a randomised, double- blind, multicentre, phase II study

	Lancet Oncology	Novartis Pharmaceuticals Corporation	randomised, double-blind, placebo-controlled, phase 3 trial
JC	OURNAL OF CLINICAL ONCOLOGY	Supported by Novartis Pharmaceuticals, which also funded medical writing assistance.	phase III, double-blind, placebo-controlled international study
F	European Journal of Cancer	AstraZeneca AG Switzerland, S.A. AstraZeneca N.V. and the Swiss State Secretariat	multicentre, double-blind, placebo-controlled and randomised phase II trial

randomization	country	M	Simple size
Using an interactive, web- based randomization scheme,	142 centers in 19 countries	379	669
a patient number, which was used as the primary identifier for the patient throughout the study.		64	97
Random assignment was conducted centrally using permuted blocks within strata.		98	131
Patients were assigned randomisation numbers with a validated interactive response technology	267centers in 29 countries	784	1147

a computer-generated hierarchical randomisation algorithm	123 medical centres across countries	120	168
the investigator or another designated member of the research staff via a centralised interactive web-based and voice-based randomisation system(which also generated the random allocation sequence)	in 144 centres in 17 countries	259	521
			116
A computer- generated randomization schedule was used to allocate patients using variable block sizes	13 Canadian cancer centres		129

Randomisation was done with a block size of six within each stratum. Patients and investigators (including local radiologists) remained masked	200 trial centres in 22 countries	319	432
		361	726
Randomisation was stratified using the minimisation method for centre		15	42

sex(women%)	Her-2 expression	disease stage	pathway inhibited
100%	(-)	ABC	CDK4/6
100%	(-)	locally advanced or metastatic breast cancer	FGFR
100%	(-)	unresectable locally advanced or metastatic, ER- positive, human epidermal growth factor receptor 2/neu negative breast cancer	mTOR
100%	(-)	inoperable locally advanced or metastatic disease	PI3K

100%	(-)	locally advanced or metastatic breast cancer	PI3K-AKT-mTOR
100%	(-)	metastatic breast cancer	CDK4/6
100%	(-)	unresectable locally advanced or metastatic breast cancer	proteasome inhibitor
100%	Primary tumour status: n (%)3 (5) VS 3 (5)  Metastatic tumour status: n (%) 3 (5) vs 1 (2)	metastatic breast cancer	VEGF

100%	100%	locally advanced or metastatic breast cancer pretreated with aromatase inhibitors and resistant to endocrine and mTOR inhibitor combination therapy	PI3K
female:484,10 0%	female:242,100%	advanced (metastatic or locoregionally recurrent disease not amenable to curative treatment) breast cancer.	CDK4/6
100%	(-)	advanced-stage endocrine sensitive (ER and/or PgR ≥10%) breast cancer	MEK 1/2inhibitor (MAPK)

trt1	trt2		eve	nt	simple
abemaciclib 200 mg twice daily+ fulvestrant 500mg,im	placebo+fulvestrant im	500mg,	222	157	446
dovitinib 500 mg +fulvestrant 500 mg, im	placebo+fulvestrant im	500mg,	30	34	47
everolimus 10mg+fulvestrant 500mg,im	placebo+fulvestrant im	500mg,			66
buparlisib 100 mg once daily, +fulvestrant 500 mg, im	placebo+fulvestrant im	500mg,	349	435	576

pictilisib 340 mg daily+ fulvestrant 500 mg,im	placebo+fulvestrant 500mg, im	61	59	89
palbociclib 125 mg daily+fulvestrant 500 mg,im	placebo+fulvestrant 500mg, im	145	114	347
bortezomib+fulvestrant 500 mg ,i.m	fulvestrant 500mg, im			57
vandetanib 100 mg,P0 OD+fulvestrant 500 mg ,im	placebo+fulvestrant 500mg, im			61

buparlisib 100 mg once daily, +fulvestrant 500 mg,im	placebo+fulvestrant im	500mg,	202	117	289
ribociclib 600mg orally per day,3 weeks on,1 week off+fulvestrant 500mgim,on day 1 of each 28-day cycle	placebo+fulvestrant im	500mg,	210	151	484
selumetinib 75 mg + Fulvestrant	placebo+fulvestrant im	500mg,	5	10	22

e size	median a	ge(years)	Prior endocr
223	59 (32–91)	62 (32-87)	AI:316 (70.9%)
50	63 (44 - 82)	63 (38 - 82)	Tam:27 (57.4%) Let:18 (38.3%) Ana:16 (34.0%) Exe:8 (17.0%) Other:1 (2.1%)
65	64 (39–92)	59 (35–85)	AI-resistant
571	62. 0 (55. 0 - 69. 0)	61 (54.0 - 68.0)	AI:574 (100%)

79	60 (36 - 90) Aged ≥65 years: 29 (33%)	63 (40 - 82) Aged ≥65 years: 29 (37%)	AI: (98%)
174	57 (30 - 88)	56 (29 - 80)	AI:137 (39%) Tam:51 (15%) AI+Tam:159 (46%)
59	59 (31 - 80)	57 (31 - 83)	Endocrine therapy : 42 (74%)  Mean no. of prior: 1.47 endocrine therapies for advanced disease
68	61.6 (SD: 8.9)	57.7 (SD: 8.7)	Tam or AI for metastatic disease: 42 (69%)  Tamoxifen or AI in adjuvant: 9 (15%)  Any prior adjuvant endocrine therapy: 10 (16%)

143	60. 0 (54. 0 - 68. 0)	62.0 (55.0 - 69.0)	Lines of previous hormonal therapy in metastatic setting:  1:87 (30%)  2:166 (57%)  3:31 (11%)  4:4 (1%)  ≥5:1 (<1%)
242	63. 0 (31 - 89)	63. 0 (34 - 86)	Tamoxifen: 41% AI:53%
20	66 (40 - 79)	69 (46 - 79)	AI: Adjuvant 9 (41%)Advanced stage 13 (59%) Tam:14 (64%)

ine therapy(%)	HR stat	us (%)
AI:149 (66.8%)	PR(+):339 (76.0%) PR(-):96 (21.5%)	
Tam:21 (42.0%) Let:23 (46.0%) Ana:18 (36.0%) Exe:9 (18.0%) Other:4 (8.0%)	HR+:100%	HR+:100%
AI-resistant	HR+:100%	HR+:100%
AI:568 (99%)	(+)	(+)

AI: (99%)	ER (+) PR (+) 58 (65%) PR (-) 21 (24%) PR (unknown) 10 (11%)	ER (+) PR (+) 58 (73%) PR (-) 14 (18%) PR (unknown) 7 (9%)
AI:70 (40%) Tam:23 (13%) AI+Tam:81 (47%)	ER、PR(+):  ≥Median of distribution: 81 (23%) <median (+):="" (20%)="" (48%)<="" (52%)="" 165="" 179="" 71="" <median="" distribution:="" er="" of="" pr="" td="" ≥median=""><td>ER、PR(+):</td></median>	ER、PR(+):
Endocrine therapy: 39 (66%)  Mean no. of prior: 1.43 endocrine therapies for advanced disease	ER (+) 100%	ER (+) 100%
Tam or AI for metastatic disease: 53 (78%)  Tamoxifen or AI in adjuvant: 10 (15%)  Any prior adjuvant endocrine therapy: 5 (7%)	Primary tumour status: ER(+)56 (92%)	Primary tumour status: ER(+)64 (94%)

Lines of previous hormonal therapy in metastatic setting: 1:48 (34%) 2:48 (34%) 3:16 (11%) 4:3 (2%) ≥5:0 Tamoxifen: 61% ER+:481 (99.4%) ER+:241 (99.6%) AI:68% PR+:353 (72.9%) PR+:167 (69.0%) AI: Adjuvant 8 (40%) Advanced stage (ER and/or PgR≥10%) (ER and/or PgR≥10%) 12 (60%) Tam:11 (55%)

Metasta	tic site	Viscera	l disease	Measurabl
Bone only:123 (27.6%) Other:75 (16.8%)	Bone only:57 (25.6%) Other:38 (17.0%)	245 (54.9%)	128 (57.4%)	yes:318 (71.3%) no:128 (28.7%)
Bone 39 (83.0%) Lymph nodes 21 (44.7%) Liver 22 (46.8%) Other 19 (40.4%) Adrenal 3 (6.4%) Breast 0	Bone 36 (72.0%) Lymph nodes 26 (52.0%) Liver 16 (32.0%) Other 8 (16.0%) Adrenal 3 (6.0%) Breast 1 (2.0%)	35 (74.5%)	30 (60.0%)	
Bone:44 (67%) Lung:28(42%) Liver:18 (27%) Lymph nodes:27 (41%)	Bone:46 (71%) Lung:23(35%) Liver:17 (26%) Lymph nodes:28 (43%)			44, 67%
		341 (59%)	337 (59%)	

Bone-only disease: 19 (21%) ≥3 metastatic sites: 24 (27%)	Bone-only disease: 17 (22%) ≥3 metastatic sites: 31 (39%)	51 (57%)	42 (53%)	51 (57%)
Lung involvement: 100 (29%) Liver involvement: 127 (37%) Peritoneal involvement: 2 (1%) Brain or pleural involvement, or both: 4 (1%)	Lung involvement: 45 (26%) Liver involvement: 81 (47%) Peritoneal involvement: 1 (1%) Brain or pleural involvement, or both: 4 (1%)	206 (59%)	105 (60%)	Any measurable disease: 268 (77%)
Bone:46 (78%) Lung:9 (15%) Liver:22 (37%) Pleura:5 (8%)	Bone:45 (76%) Lung:23 (39%) Liver:21 (36%) Pleura:8 (14%)			yes:31 (54%) no:26 (46%)
Liver: 14 (23%) Lung:12 (20%) Lymph node: 14 (23%) 16 (24%) Skin: 3 (5%) Other: 15 (25%)	Liver:23 (34%) Lung: 22 (32%) Lymph node:16 (24%) Skin:0 (0%) Other:18 (27%)			21 (34.4%)

Bone:219 (76%) Liver:137 (47%) Lymph nodes:101 (35%) Lung:94 (33%)	Bone:111 (78%) Liver:76 (53%) Lymph nodes:49 (34%) Lung:43 (30%)	Visceral:21 2 (73%)	Visceral:103 (72%)	
Bone:367 (75.8%) Bone only:103 (21.3%)  Lung:146 (30.2%) Liver:134 (27.7%) Lung or liver:242 (50.0%) Central nervous system:6 (1.2%) Other:102 (21.1%) Lymph nodes:199 (41.1%)	Bone:180 (74.4%) Bone only:51 (21.1%)  Lung:72 (29.8%) Liver:63 (26.0%) Lung or liver:121 (50.0%) Central nervous system:2 (0.8%) Other‡: 51 (21.1%) Lymph nodes:115 (47.5%)	Visceral:29 3 (60.5%)	Visceral: 146 (60.3%)	
1 or 2: 13 (59%) ≥3: 9 (41%)	1 or 2: 13 (65%) ≥3: 7 (35%)	13 (59%)	11 (55%)	15 (68%)

e disease	Ra	ce	ECOG performa
yes:164 (73.5%) no:59 (26.5%)	Asian:149(33.4%) Caucasian:237 (53.1%) Other:29 (6.5%)	Asian:65 (29.1%) Caucasian:136 (61.0%) Other:13 (5.8%)	0:264 (59.2%) 1:176 (39.5%)
			0:28 (59.6%) 1:18 (38.8%) 2:1 (2.1%)
42, 65%	White 56 (85%) Black 8 (12\$) Other 2 (3%)	White 49 (75%) Black 11 (17%) Other 5 (8%)	0:40 (61) 1: 26 (39)
	White:402 (70%) Asian:132 (23%) Black:5 (1%) Other:18 (3%) Unknown or missing: 19 (3%)	White:376 (66%) Asian:153 (27%) Black:16 (3%) Other:7 (1%) Unknown or missing: 19 (3%)	0:333 (58%) 1:231 (40%) 2:11 (2%) 3:1 (<1%)

43 (54%)	White: 78 (88%) Asian: 5 (6%) Black: 2 (2%) Other: 4 (4%) Multiple: 0	White: 68 (86%) Asian: 8 (10%) Black: 1 (1%) Other: 1 (1%) Multiple: 1 (1%)	0/1:100%
Any measurable disease: 138 (79%)	White: 252 (73%) Asian: 74 (21%) Black and others: 21 (6%)	White: 133 (76%) Asian: 31 (18%) Black and others: 10 (6%)	0: 206 (59%) 1: 141 (41%)
yes:38 (64%) no:21 (36%)			0:37 (65%) 1:19 (33%) 2:1 (2%)
40 (58.8%)			0: 33 (54%) 1: 27 (44%) 2: 1 (2%)

	White 249 (86%) Asian 20 (77%) Black 4 (1%) Other 7 (2%) Unknown 9 (3%)	White 121 (85%) Asian 9 (6%) Black 4 (3%) Other 3 (2%) Unknown 6 (4%)	0: 173 (60%) 1: 112 (39%) 2: 2 (1%) Missing: 2 (1%)
	Unknown: 15 (3.1%)	White: 213 (88.0%) Asian: 18 (7.4%) Native American: 1 (0.4%) Black: 2 (0.8%) Unknown: 5 (2.1%) Other: 3 (1.2%)	0: 310 (64.0%) 1: 173 (35.7%) Missing: 1 (0.2%)
15 (75%)			0:16 (73%) 1/2: 6 (27%)

ance status	Postmenop	ausal (%)	median length of follow-up	rimary endpoint
0:136 (61.0%) 1:87 (39.0%)	371 (83. 2%)	180 (80. 7%)	19.5 months	PFS
0:28 (56.0%) 1:20 (40.0%) 2:2 (4.0%)	未提及百分比 100%	未提及百分比 100%		PFS
0:38 (58) 1:27 (42)	未提及百分比 100%	未提及百分比 100%	19.3 months (range, 0 to 36.3 months)	PFS
0:344 (60%) 1:211 (37%) 2:16 (3%) 3:0	postmenopausal 未提及百分比	postmenopausal 未提及百分比	13.73 months (IQR 5.45 - 19.81) versus 14.32 (10.64 - 21.62)	PFS、ORR

17.5 months postmenopausal postmenopausal (IQR 15.4-19.4) 0/1:100% PFS 未提及百分比 未提及百分比 0: 116 (67%) 8.9 months (IQR 275 (79%) 138 (79%) PFS 1: 58 (33%) 8.7 - 9.2). 0:38 (64%) postmenopausal postmenopausal 1:20 (34%) PFS 未提及百分比 未提及百分比 2:1 (2%) 0: 36 (53) postmenopausal postmenopausal 1: 27 (40) uNTx response. 未提及百分比 未提及百分比 2: 5 (7)

0: 91 (64%) 1: 48 (34%) 2: 1 (1%) Missing: 3 (2%)	postmenopausal 未提及百分比	postmenopausal 未提及百分比	8 • 3 months (IQR 4 • 2 - 20 • 7) VS 12 • 0 months (IQR 4 • 7 - 13 • 7)	progression-free survival
0: 158 (65.3%) 1: 83 (34.3%) Missing: 1 (0.4%)			20.4 months	locally assessed PFS
0: 13 (65%) 1/2: 7 (35%)	postmenopausal 未提及百分比	postmenopausal 未提及百分比	22 months	DCR

secondary endpoint	PFS	ORR (CR+PR)
ORR, duration of response, CBR	PFS:16.4 VS 9.3months HR: 0.553; 95% CI: (0.449, 0.681) P<0.001	OR:2.82 ,P<.001) 157(35.2%) 95%CI:(30.8% to 39.6%) vs 36 (16.1%) 95%CI:(11.3% to 21.0%)
ORR, Median time to first response; DOR	PFS: 5. 5months (3. 8 - 14. 0) vs 5. 5months (3. 5 - 10. 7) HR: 0. 68 95% CI: (0. 41, 1. 14)	13 (27.7%) 95%CI:[15.6 - 42.6] 5 (10.0%) 95%CI:[3.3 - 21.8]
objective response rate, clinical benefit rate, OS	10.3 (95% CI, 7.6 to13.8 months; 5.1 (95% CI, 3.0 to 8.0 months) P=0.02; HR=0.61 [95% CI: 0.40 to 0.92]	12, 18. 2%, 95%CI:9. 8, 29. 6 8, 12. 3%, 95%CI:5. 5, 22. 8
OS, overall response, clinical benefit	PFS:6.9(6.8 - 7.8) 5.0 months(4.0 - 5.2) HR:0.78 95% CI: (0.67-0.89) p=0.00021	overall response: 11.8% (95% CI9.3 - 14.7) 7.7% (5.7 - 10.2)

OR, clinical benefit, duration of response, the prognostic effect	(6.6 months [95% CI 3.9-9.8]) (5.1 months [3.6-7.3]) [HR] 0.74 [95% CI 0.52-1.06]; p=0.096	7 (7.9% [95% CI 3.2 - 15.5]) 5 (6.3% [2.1 - 14.2]) (p=0.70)
ORR, clinical benefit, tumour tissue biomarkers,	PFS: 9.5 (95% CI 9.2 - 11.0) 4.6 (95%CI: 3.5 - 5.6) HR: 0.46 95%CI:0.36 - 0.59, p<0.0001	66, 19%(15.0 - 23.6) VS 15, 9%(4.9 - 13.8) OR: 2.47(1.36 - 4.91)  CR: 0 0% VS 4 2% (n,%) PR:66 19% VS 11 6% Stable disease:213 61% vs 94 54% Progressive disease:58 17% 57 33%
CBR (for cross over trial)	2.73 vs 2.69 HR:0.73 (95% (CI)=0.49, 1.09) P=0.06	
PFS, OS, RECIST response,	PFS: 5.8 months (95 % CI 2.7-8.1) and 4.8 months (95 % CI 2.7-5.4), HR=0.94 (95 % CI 0.64-1.36), P= 0.73	RECIST best response: n (%) PR:0 (0) vs 3 (75) P=0.47 SD:9 (41) VS 14 (35) PD:11 (50) VS 18 (45) NE:2 (9) VS 5 (13)

overall survival,safety	3.9 months [95% CI 2.8-4.2] vs 1.8 months [1.5-2.8] HR=0.67, 95% CI 0.53-0.84, one- sided p=0.00030	CR:1 PR:21 Overall response:22,8%, 95%CI:5-11 CR:0 PR:3 Overall response:3,2%, 95%CI:0-6
(OS), overall response rate (ORR), clinical benefit rate, and	HR=0.593	155, 32. 4% (95% CI, 28. 3% to 36. 6%) versus 52, 21. 5% (95% CI, 16. 3% to 26. 7%)
overall response rate (OR, best response i.e. CR or PR), time to treatment failure (TTF, from randomisation to discontinuation of all trial treatment), duration	PFS:3.7 months (95% CI 1.9, 5.8) and 5.6 months (95% CI 3.4, 13.6)	CR: 0 (0%) VS 0 (0%) PR: 1 (5%) VS 3 (15%)

0S	Median time to first response	duration of response rate
		67.8% vs 66.9%
	months: 2.0(1.5-18.8) 3.7(1.6-9.1)	months: 13.5 [5.5 - 16.6] 14.7 [3.3 - NE]
28.3 months (95% CI, 19.5 to 29.6 months) 31.4 months (95% CI, 21.8 to month not reached) HR=1.31 [95% CI:0.72,2.38] P=0.37		——

	 (9.43 months [4.1 to not estimable] vs 6.5 months [3.7 months to not estimable]; p=0.65
OS: 31.0 (23.3 - NR)vs NR, p=0.30	
тқ р-0. 50	

OS: 22.9 [16.1, NA] VS 19.4 [15.2, NA]	 

Disease control rate (CR + PR + SD)	Clinical benefit rate (CR+PR+SD≥6 months)		
OR:1.56 P=0.025 370 (83.0%) 95%CI: (79.5 to 86.4) 169 (75.8%) 95%CI: (70.2 to 81.4)	OR:2.04, P<.001 322 (72.2%) 95%CI: (68.0 to 76.4) 125 (56.1%) 95%CI: (49.5 to 62.6)		
	42, 63. 6%, 95%CI:50. 9, 75. 1 27, 41. 5% 95%CI:29. 4, 54. 4		
	43.8% (95% CI 39.7 - 47.9) 42.0% (37.9 - 46.2)		

22 (24.7%) (95% CI 16.2 - 35.0) versus 14 (17. 7%) (p=0. 27) 231, 67% (61.3 - 71.5) VS 69, 40% (32.3 - 47.3)OR: 3.05(2.07 - 4.61)

\_\_ 71, 25%, 95%CI:20-30 VS 22, 15%, 95%CI:10-22

> 340 (70.2%) 95% CI:66.2 to 74.3 VS 152 (62.8%) 95% CI:56.7 to 68.9

DCR:5 23% (95% CI: 8 - 45%) VS 10 50% (95% CI 27 - 75%)

safety(adverse events)	safety s	imple size	Grade
abemaciclib versus placebo arms were diarrhea (86.4% v 24.7%), neutropenia (46.0% v 4.0%), nausea (45.1% v22.9%), and fatigue (39.9% v 26.9%).	441	223	all:435 (98.6%) 3级: 241 (54.6%) 4级: 26 (5.9%)
The most common grade 3 AEs (occurring in $\geq$ 10% of patients) in the dovitinib vs placebo arms were hypertension (21.3% vs 6.0%), diarrhea (14.9% vs 4.0%), alanine aminotransferase increase (14.9% vs 2.0%), fatigue (12.8%vs 2.0%), blood alkaline phosphatase increase (12.8% vs 0%), and $\gamma$ -glutamyltransferase increase (10.6% vs 6.0%)	47	50	47 (100%) 3级: 32 (68.1%) 4级: 8, 17%
hyperglycemia (16%/0% vs. 0%), stomatitis (11%/0% vs. 0%), hypertriglyceridemia (9%/2% vs. 0%), lymphopenia (9%/0% vs. 0%), and pneumonitis (6%/2% vs. 0%)	64	65	3/4级: 53%/3%
The most common grade 3-4 adverse events in the buparlisib group versus the placebo group were increased alanine aminotransferase (146 [25%] of 573 patients vs six [1%] of 570), increased aspartate aminotransferase (103 [18%] vs 16 [3%]), hyperglycaemia (88 [15%] vs one[<1%]), and rash (45 [8%] vs none)	573	570	

all:199 (89.2%)

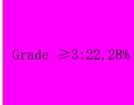
3级 46 (20.6%)

4级: 5 (2.2%)

47 (94.0%) 3级: 19 (38.0) 4级: 6,12%

3/4级: 23%/3%

\_\_\_\_



3/4级: 38 (22%) of 172

9, 13. 2%

47, 34%

1级: 2 (9.1%) 2级: 7 (31.8%) 3级: 11 (50.0%) 4级: 2 (9.1%)