Supplementary Material

Characteristics	Targeted Therapy	Chemotherapy
	N=329 (%)	N=570 (%)
Age(years), median range	60.7 (26.0~86.0)	61.0 (26.0~84.0)
Gender		
Male	133 (40.4)	391 (68.6)
Female	196 (59.6)	179 (31.4)
Smoking status		
Former-smoker	25 (7.6)	82 (14.4)
Current-smoker	60 (18.2)	193 (33.9)
Non-smoker	244 (74.2)	295 (51.8)
Histology		
Adenocarcinoma	310 (94.2)	413 (72.5)
Squamous cell carcinoma	6 (1.8)	135 (23.7)
Other	13 (4.0)	22 (3.9)
EGFR		
Wild type	43 (13.1)	387 (67.9)
Mutation	259 (78.7)	80 (14.0)
19	124 (47.9)	41 (51.1)
21	125 (48.3)	26 (32.5)
Other	10 (3.9)	13 (16.3)
Unknown	27 (8.2)	103 (18.1)
LIPI		
Good	211 (64.1)	340 (59.6)
Intermediate	93 (28.3)	185 (32.5)
Poor	25 (7.6)	45 (7.9)

Supplementary Table 1 Baseline demographic and clinical characteristics of

NSCLC patients with targeted therapy and chemotherapy.

Supplementary Table 2: Pairwise comparison of Progression-free survival (PFS)

in three LIPI groups.					
	Immunotherapy(P-value)	Target therapy(<i>P</i> -value)	Chemotherapy(P-value)		
Good vs Intermedia	0.002	0.431	0.332		
Good vs Poor	0.666	0.142	0.056		
Intermedia vs Poor	0.199	0.251	0.118		

Supplementary Table 3: Pairwise comparison of Overall survival (OS) in three LIPI groups.

	Immunotherapy(P-	Target therapy(<i>P</i> -value)	Chemotherapy(P-value)
	value)		
Good vs Intermedia	0.07	0.001	0.284
Good vs Poor	0.213	0.01	0.013
Intermedia vs Poor	0.473	0.764	0.065

Supplementary figure

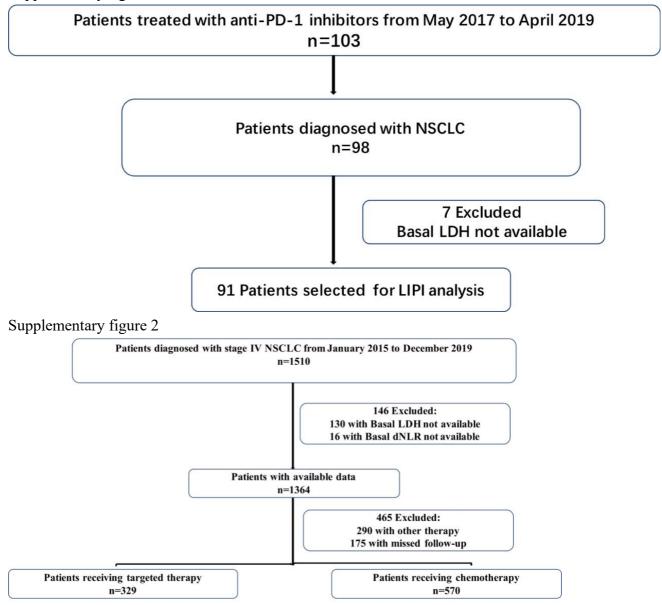
Supplementary figure 1: Flow chart of our targeted immunotherapy cohort.

Supplementary figure 2: Flow chart of our targeted therapy and chemotherapy cohort. **Supplementary figure 3:** Funnel plot of progression-free survival; 3A: funnel plot of all including studies; funnel plot of subgroup analysis 3B (LIPI: good vs intermediate) and 3C (LIPI: good vs poor)

Supplementary figure 4: Funnel plot of Overall survival; 4A: funnel plot of all including studies; funnel plot of subgroup analysis 4B (LIPI score: good vs intermediate) and 4C (LIPI score: good vs poor)

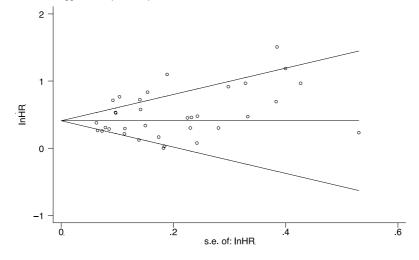
Supplementary figure 5: Sensitivity analysis of progression-free survival (5A) and overall survival (5B)

Supplementary figure 1

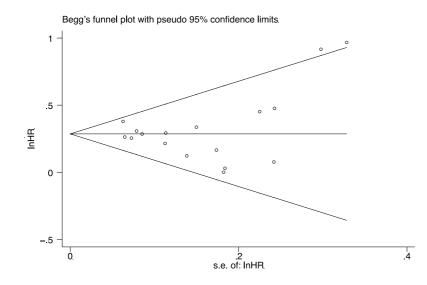


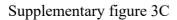
Supplementary figure 3A

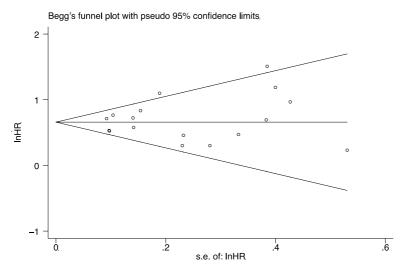




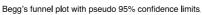
Supplementary figure 3B

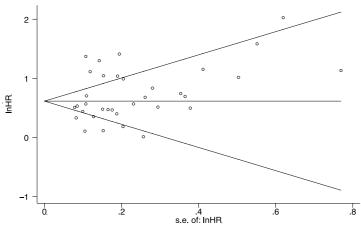




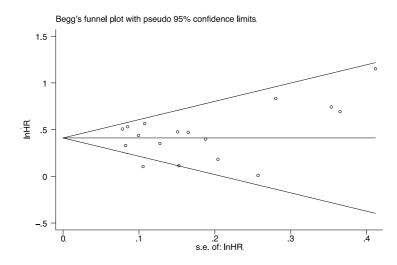


Supplementary figure 4A





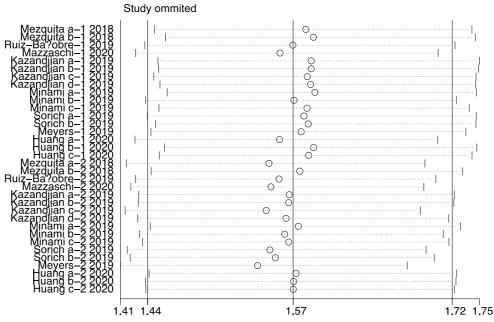
Supplementary figure 4B



Supplementary figure 4C

Begg's funnel plot with pseudo 95% confidence limits. 3 -2 0 0 hHR 1 0 c 0 -1 0. .2 .8 4 s.e. of: InHR .6

Supplementary figure 5A



Meta-analysis random-effects estimates (exponential form).

Supplementary figure 5B

