

Supplementary Data

Supplementary Tables

Supplementary Table 1. Search strategy for Embase

#1	Cytokine-Induced Killer Cells/
#2	cytokine induced killer cell*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
#3	(cytokine induced adj6 killer cell*).mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
#4	2 or 3
#5	1 or 4
#6	*colorectal cancer*/ or colorectal neoplasm*.mp. or colon cancer*.mp. [mp=title, abstract, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword heading word, floating subheading word, candidate term word]
#7	exp colon tumor/
#8	exp rectum tumor/
#9	6 or 7 or 8
#10	5 or 9

Supplementary Table 2. Search strategy for MEDLINE

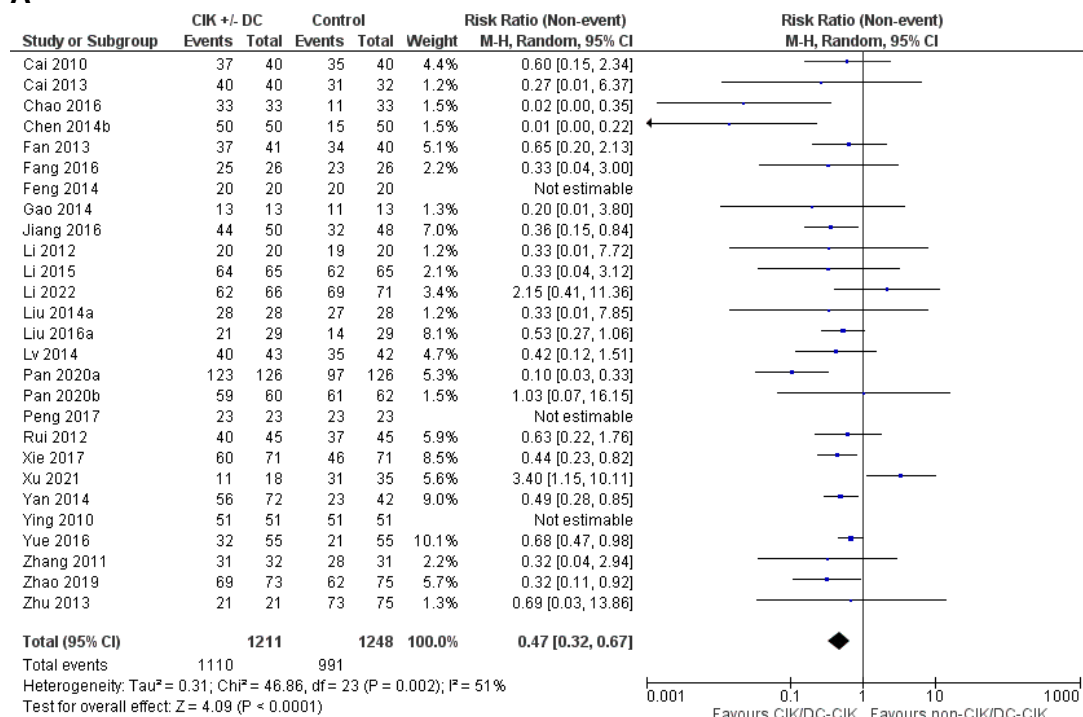
#1	Cytokine-Induced Killer Cells/
#2	cytokine induced killer cell*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol
#3	(cytokine induced adj6 killer cell*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
#4	2 or 3
#5	1 or 4
#6	exp Colorectal Neoplasms/
#7	*colorectal cancer*/ or colorectal neoplasm*.mp. or colon cancer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
#8	6 or 7
#9	5 and 8

Supplementary Figures

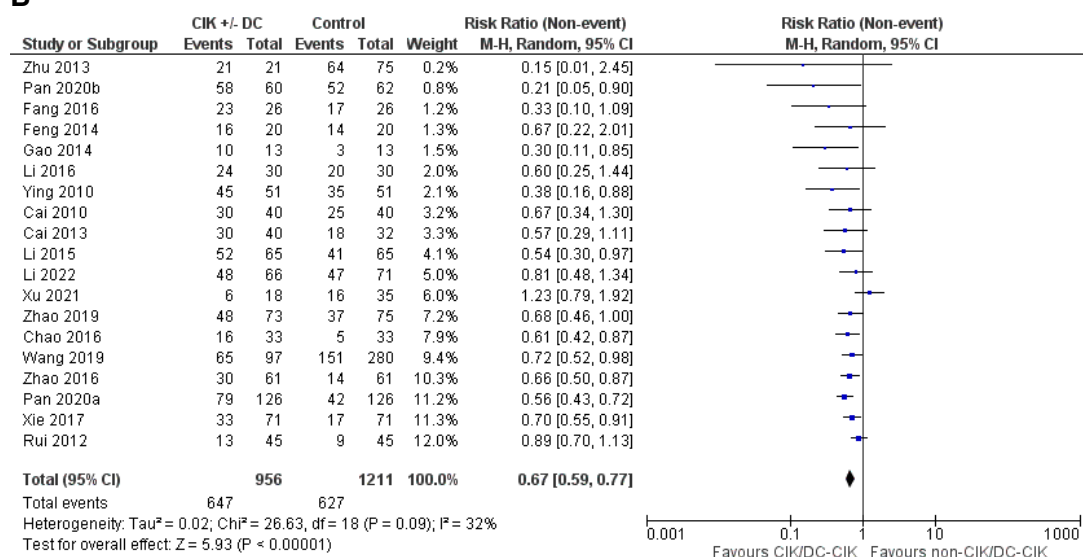
	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Imbalance in baseline characteristics (selection bias)	Uniformity of control treatment (performance bias)	Incomplete outcome data (attrition bias)
Bian 2013	?	?	+	+	+	+	+
Cai 2010	?	?	+	+	+	+	?
Cai 2013	+	+	+	+	+	+	+
Cai 2017	?	?	+	+	+	+	?
Chao 2016	+	+	+	+	+	?	+
Chen 2014a	?	?	+	+	+	?	+
Chen 2014b	+	?	+	+	+	+	+
Chu 2016	?	?	+	+	+	+	+
Deng 2018	?	?	+	+	+	+	+
Dong 2018	+	+	+	+	+	?	+
Du 2013	?	?	+	+	+	+	?
Fan 2013	?	?	+	+	+	+	+
Fang 2016	?	?	+	+	+	+	+
Feng 2014	+	+	+	+	?	+	+
Feng 2017	?	?	+	+	+	?	+
Gao 2014	?	?	+	+	?	?	+
Guo 2019	?	?	+	+	+	?	+
He 2018	+	+	+	+	+	+	+
Jiang 2016	?	?	+	+	+	?	+
Leng 2016	+	+	+	+	+	+	+
Li 2012	?	?	+	+	+	+	+
Li 2015	+	+	+	+	+	?	+
Li 2016	+	+	+	+	+	+	?
Li 2022	+	+	+	+	+	+	+
Lin 2016	?	?	+	+	+	?	?
Liu 2014a	?	?	+	+	+	+	+
Liu 2014b	?	?	+	+	?	+	+
Liu 2016a	?	?	+	+	+	?	+
Liu 2016b	?	?	+	+	+	+	+
Liu 2016c	+	+	+	+	+	+	+
Liu 2019	+	?	+	+	+	+	+
Liu 2020	+	?	+	+	+	+	+
Lv 2014	?	?	+	+	+	+	+
Ma 2019	?	?	+	+	+	+	+
Niu 2016	?	?	+	+	+	+	+
Pan 2020a	+	+	+	+	+	?	?
Pan 2020b	+	+	+	+	?	+	?
Peng 2017	+	?	+	+	+	+	?
Pu 2021	+	?	+	+	+	+	?
Rui 2012	?	?	+	+	+	+	+
Sun 2020	?	?	+	+	+	+	+
Wang 2014	?	?	?	+	+	+	+
Wang 2016	+	?	+	+	+	+	+
Wang 2017	?	?	+	+	+	+	+
Wang 2019	+	+	+	+	?	?	?
Weng 2013	?	?	+	+	+	+	+
Weng 2014	?	?	+	+	+	+	+
Wu 2018	+	+	+	+	+	?	+
Xie 2017	+	+	+	+	+	+	?
Xu 2021	+	+	+	+	+	?	+
Yan 2014	+	+	+	+	+	+	+
Yin 2013	+	+	+	+	+	+	+
Ying 2010	+	+	+	+	+	?	?
Yuan 2016	+	?	+	+	+	?	+
Yue 2016	?	?	+	+	+	?	+
Zang 2019	?	?	+	+	+	+	+
Zhang 2011	?	?	+	+	+	?	?
Zhang 2014	?	?	+	+	+	+	?
Zhang 2015	+	+	+	+	+	?	+
Zhang 2016	?	?	+	+	+	+	+
Zhang 2017	?	?	+	+	+	+	?
Zhang 2022	+	+	+	+	+	+	+
Zhao 2015	?	?	+	+	+	+	+
Zhao 2016	+	?	+	+	+	+	?
Zhao 2018	?	?	+	+	+	+	+
Zhao 2019	+	+	+	+	+	?	+
Zhou 2015	+	?	+	+	+	+	+
Zhou 2016	?	?	+	+	+	+	?
Zhu 2013	+	+	+	+	?	+	?
Zhu 2014	+	+	+	+	?	?	?

Supplementary Figure 1. Risk of bias assessment summary

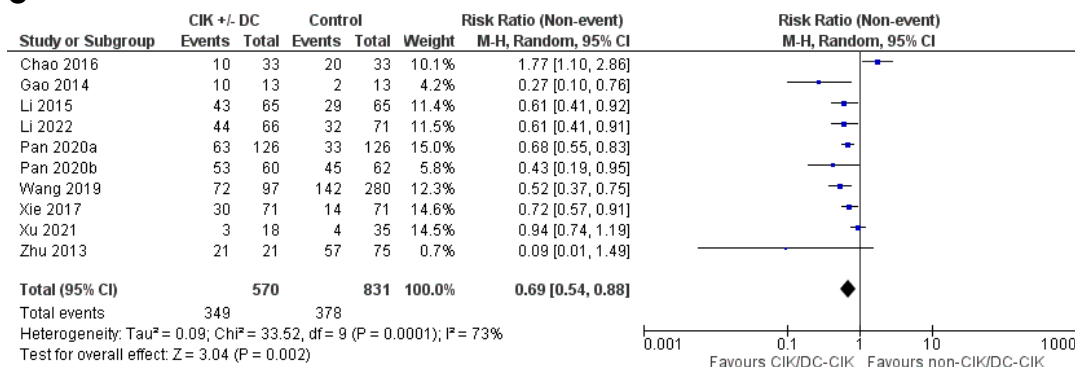
A



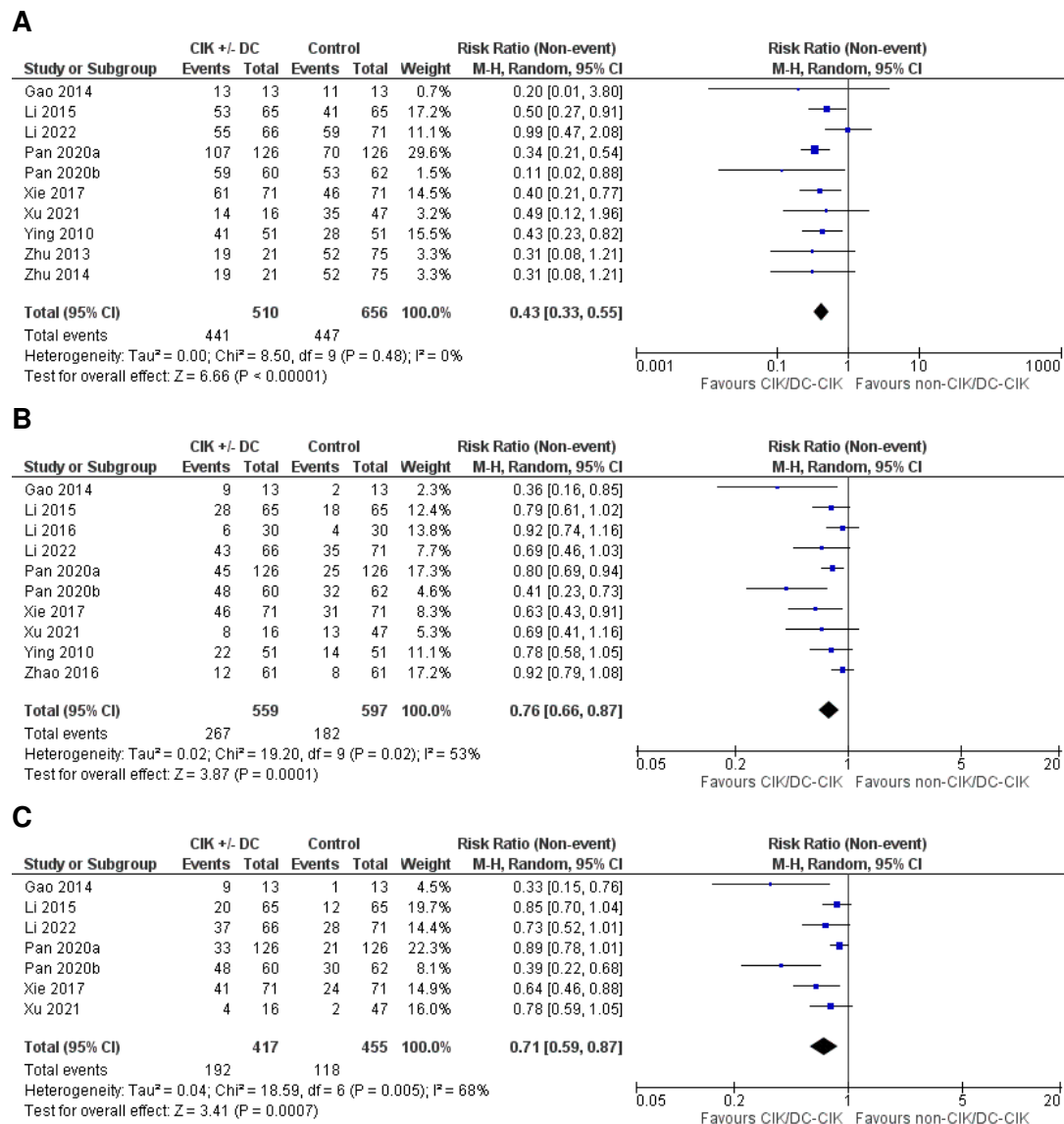
B



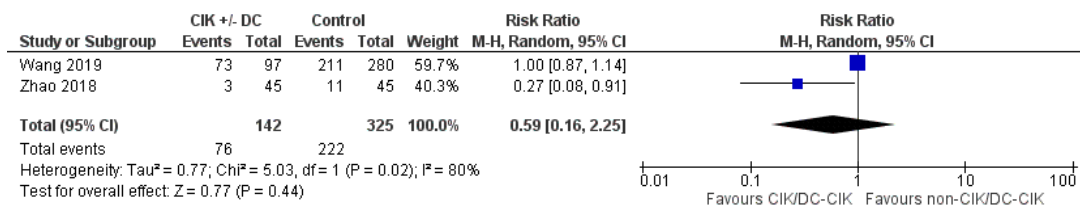
C



Supplementary Figure 2. CIK/DC-CIK therapy versus non-CIK/DC-CIK therapy for (A) 1-year, (B) 3-year and (C) 5-year overall survival (OS) rates. Twenty-seven studies involving 2,459 patients, nineteen studies involving 2,167 patients and ten studies involving 1,401 patients contributed data to 1-, 3- and 5-year OS rate analysis respectively. CIK, cytokine-induced killer cell; DC, dendritic cell.

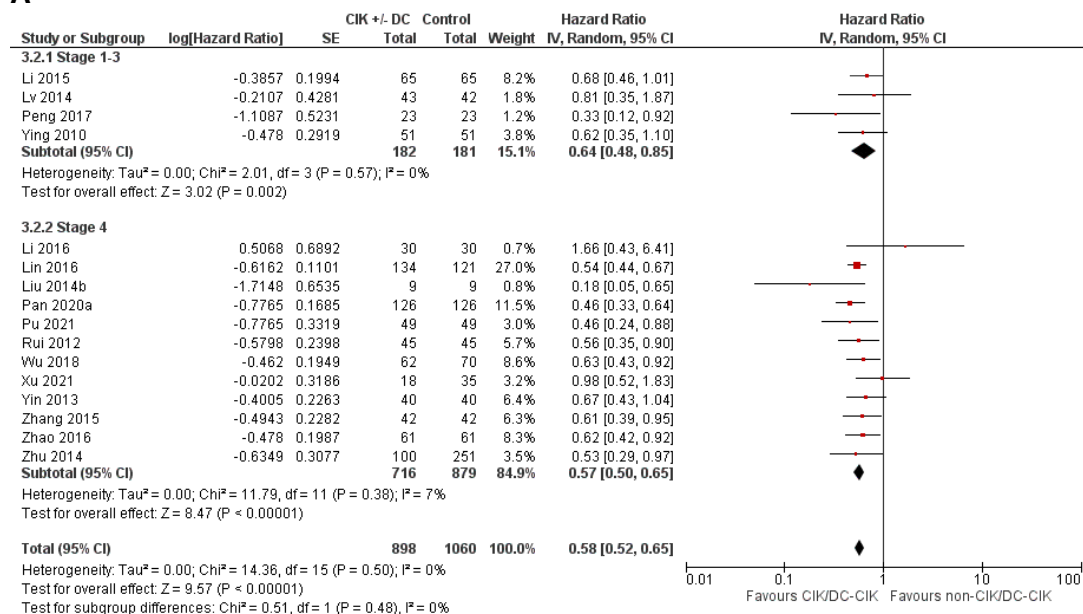


Supplementary Figure 3. CIK/DC-CIK therapy versus non-CIK/DC-CIK therapy for (A) 1-year, (B) 3-year and (C) 5-year progression-free survival (PFS) rates. Ten studies involving 1,166 patients, ten studies involving 1,156 patients and seven studies involving 872 patients contributed data to 1-, 3- and 5-year PFS rate analysis respectively. CIK, cytokine-induced killer cell; DC, dendritic cell.

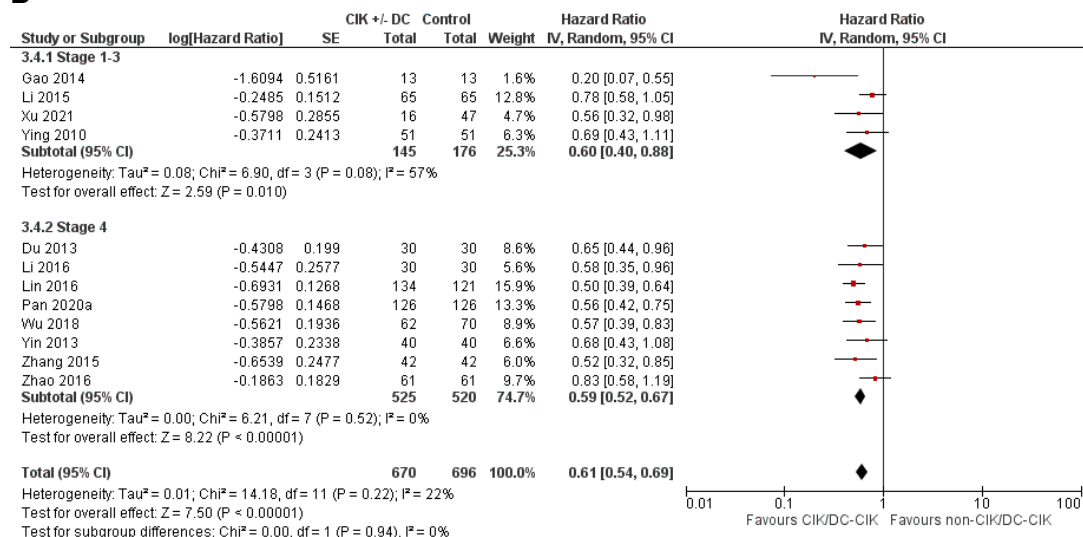


Supplementary Figure 4. CIK/DC-CIK therapy versus non-CIK/DC-CIK therapy on any adverse events. Two studies involving 467 patients contributed data to any adverse events analysis. CIK, cytokine-induced killer cell; DC, dendritic cell.

A



B



Supplementary Figure 5. Subgroup analysis by disease stage for (A) overall survival (OS) and (B) progression-free survival (PFS) between CIK/DC-CIK therapy versus non-CIK/DC-CIK therapy. Sixteen studies involving 1,958 patients and twelve studies involving 1,366 patients contributed data to OS and PFS analysis respectively. CIK, cytokine-induced killer cell; DC, dendritic cell.