

Certainty assessment							No. of patients		Effect		Certainty	Importance
No. of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	NET plus conventional therapies	conventional therapies	Relative (95% CI)	Absolute (95% CI)		
CD0												
8	randomized trials	not serious	serious ^a	not serious	serious ^b	publication bias strongly suspected ^c	308	888	-	MD 5.78 higher (2.07 higher to 9.38 higher)	⊖○○○ Very low ^{ABC}	CRITICAL
CD6												
12	randomized trials	not serious	serious ^a	not serious	not serious	publication bias strongly suspected ^c	455	437	-	MD 5.86 higher (3.9 higher to 7.82 higher)	⊖○○○ Low ^{AC}	CRITICAL
CD8												
10	randomized trials	not serious	serious ^a	not serious	not serious	publication bias strongly suspected ^c	410	420	-	MD 2.44 lower (4.03 lower to 0.93 lower)	⊖○○○ Low ^{AC}	CRITICAL
CD4/CD8												
12	randomized trials	not serious	serious ^a	not serious	not serious	publication bias strongly suspected ^c	464	486	-	MD 6.39 higher (6.15 higher to 6.63 higher)	⊖○○○ Low ^{AC}	CRITICAL
NE												
9	randomized trials	not serious	serious ^a	not serious	serious ^b	publication bias strongly suspected ^c	115	115	-	MD 5.05 higher (6.94 lower to 10.98 higher)	⊖○○○ Very low ^{ABC}	CRITICAL
IGA												
8	randomized trials	not serious	serious ^a	not serious	serious ^b	publication bias strongly suspected ^c	217	239	-	MD 9.44 higher (8.05 higher to 10.83 higher)	⊖○○○ Very low ^{ABC}	IMPORTANT
IGG												
5	randomized trials	not serious	serious ^a	not serious	serious ^b	publication bias strongly suspected ^c	197	199	-	MD 3.85 higher (6.72 higher to 2.33 higher)	⊖○○○ Very low ^{ABC}	IMPORTANT
IGM												
8	randomized trials	not serious	serious ^a	not serious	serious ^b	publication bias strongly suspected ^c	217	239	-	MD 6.35 higher (5.1 higher to 7.6 higher)	⊖○○○ Very low ^{ABC}	IMPORTANT
ALB												
8	randomized trials	not serious	serious ^a	not serious	serious ^b	publication bias strongly suspected ^c	218	218	-	MD 4.5 higher (2.97 higher to 7.04 higher)	⊖○○○ Very low ^{ABC}	IMPORTANT

CI: confidence interval; MD: mean difference

Explanations

- a. There was great heterogeneity, and the trends of some study results were different.
b. The total number of events is low.
c. Publication bias strongly suspected

Supplementary Figure S1

Supplementary Table 1 Sensitivity analysis of CD3

Study (omitted)	MD[95%CI]
Chen2012	5.80 [1.82, 9.78]
Cui2001	5.61 [1.62, 9.59]
Li2014	5.44 [1.41, 9.47]
Cai2008	5.23 [1.38, 9.07]
Chen2013	5.89 [1.74, 10.05]
Wu2021	5.92 [1.54, 10.30]
Wang2021	7.10 [5.37, 8.83]
Yue2016	5.15 [1.30, 9.01]
Liang2005	5.45 [1.33, 9.57]

Supplementary Table 2 Sensitivity analysis of CD4

Study	MD[95%CI]
Chen2012	5.91 [3.84, 7.99]
Cui2001	5.84 [3.78, 7.91]
Li2014	5.65 [3.61, 7.70]
Cai2008	5.68 [3.66, 7.71]
Chen2013	6.12 [4.03, 8.22]
Huang2021	6.26 [4.19, 8.34]
Wang2023	6.03 [3.86, 8.19]
Wu2021	6.15 [4.01, 8.29]
Xi2023	5.77 [3.66, 7.87]
Wang2021	6.27 [4.19, 8.34]
Yue2016	5.44 [3.61, 7.28]
Liang2005	5.20 [3.40, 7.00]

Supplementary Table 3 Sensitivity analysis of CD8

Study	MD[95%CI]
Chen2012	-2.58 [-4.25, -0.92]
Cui2001	-2.35 [-4.04, -0.66]
Li2014	-2.46 [-4.19, -0.74]
Huang2021	-2.57 [-4.41, -0.73]
Wang2023	-2.76 [-4.45, -1.07]
Xi2023	-2.15 [-3.80, -0.50]
Li2016	-2.69 [-4.44, -0.95]
Wang2021	-1.87 [-3.04, -0.71]
Yue2016	-2.27 [-3.98, -0.56]
Liang2005	-2.63 [-4.44, -0.83]

Supplementary Table 4 Sensitivity analysis of CD4/CD8

Study	MD[95%CI]
Chen2012	0.30 [0.15, 0.45]
Cui2001	0.28 [0.13, 0.43]
Li2014	0.29 [0.13, 0.44]
Cai2008	0.27 [0.12, 0.41]
Chen2013	0.31 [0.15, 0.46]
Huang2021	0.28 [0.13, 0.44]
Wang2023	0.30 [0.14, 0.45]
Wu2021	0.30 [0.14, 0.46]
Li2016	0.32 [0.20, 0.44]
Wang2021	0.32 [0.16, 0.47]
Yue2016	0.27 [0.13, 0.42]
Liang2005	0.25 [0.11, 0.39]

Supplementary Table 5 Sensitivity analysis of IgA

Study	MD[95%CI]
Cai2008	0.51 [0.07, 0.96]
Chen2013	0.44 [-0.02, 0.90]
Li2016	0.55 [0.07, 1.03]
Liang2005	0.25 [-0.04, 0.55]
Wang2021	0.51 [-0.06, 1.07]
Xi2023	0.40 [-0.08, 0.88]

Supplementary Table 6 Sensitivity analysis of IgG

Study	MD[95%CI]
Cai2008	1.60 [0.34, 2.85]
Chen2013	1.82 [0.48, 3.17]
Li2016	2.62 [1.03, 4.22]
Liang2005	1.49 [0.31, 2.68]
Wang2021	2.36 [0.05, 4.68]

Supplementary Table 7 Sensitivity analysis of IgM

Study	MD[95%CI]
Cai2008	0.37 [0.10, 0.65]
Chen2013	0.34 [0.07, 0.62]
Li2016	0.43 [0.15, 0.71]
Liang2005	0.32 [0.03, 0.60]
Wang2021	0.39 [0.01, 0.76]
Xi2023	0.25 [0.05, 0.44]

Supplementary Table 8 Sensitivity analysis of ALB

Study	MD[95%CI]
Chen2012	5.09 [2.32, 7.87]
Chen2013	4.98 [1.66, 8.30]
Huang2021	4.94 [1.42, 8.47]
Wang2023	4.60 [1.73, 7.46]
Wu2021	5.00 [1.35, 8.65]
Xi2023	2.56 [1.99, 3.14]