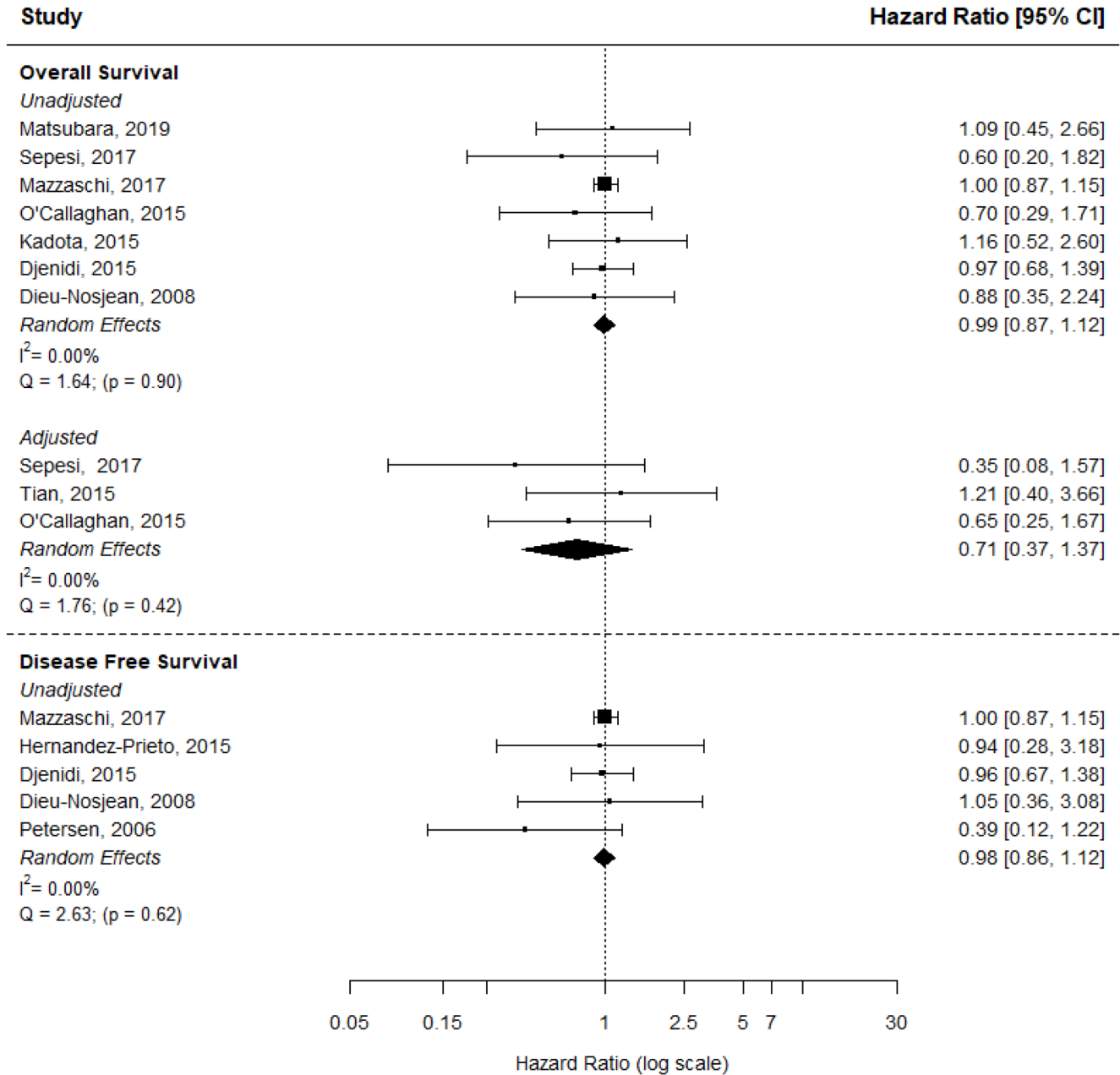


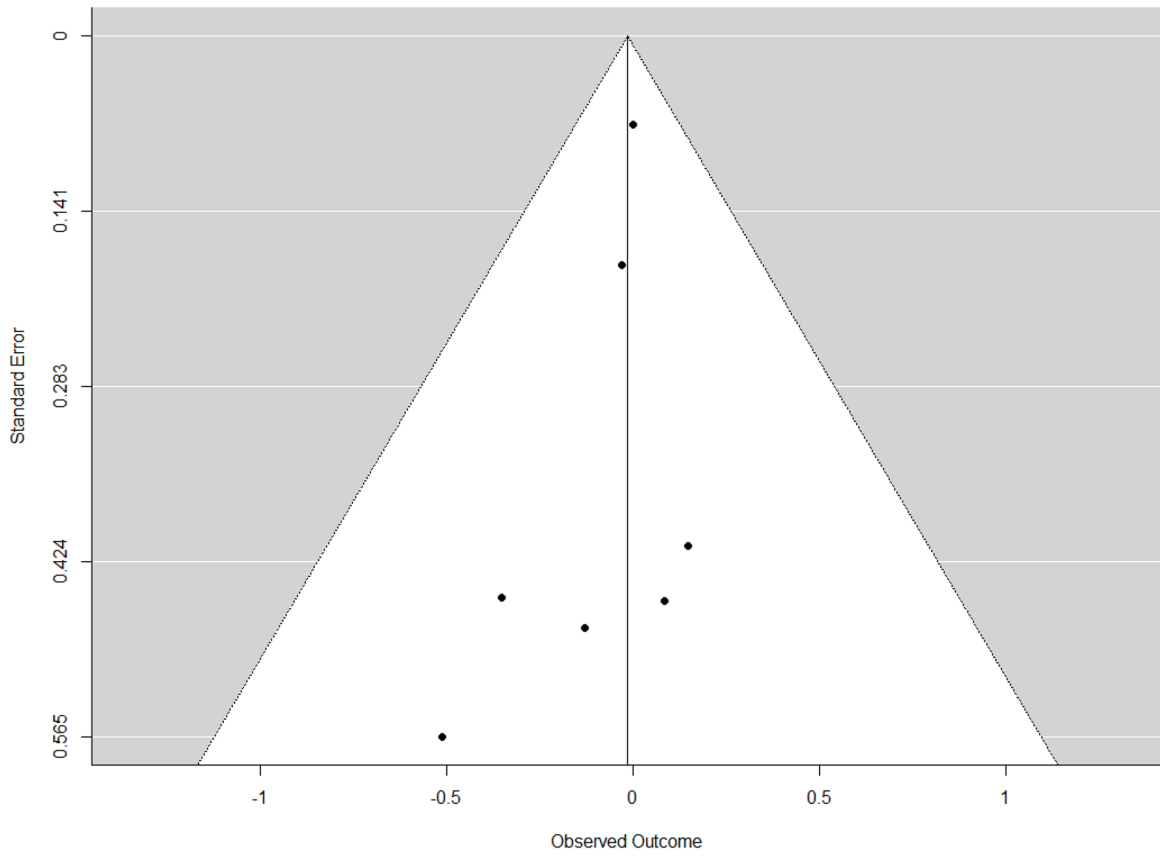
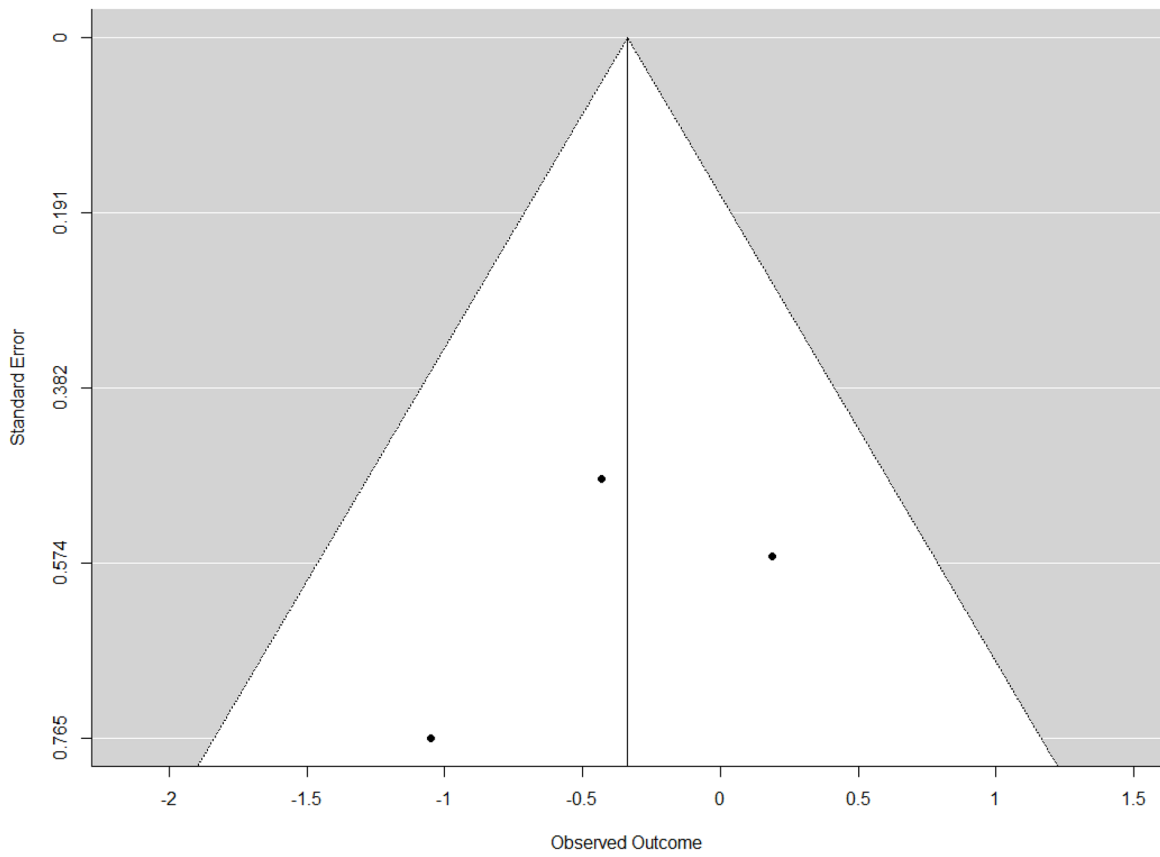
Prognostic value of immune cells in the tumor microenvironment of early-stage lung cancer: a meta-analysis

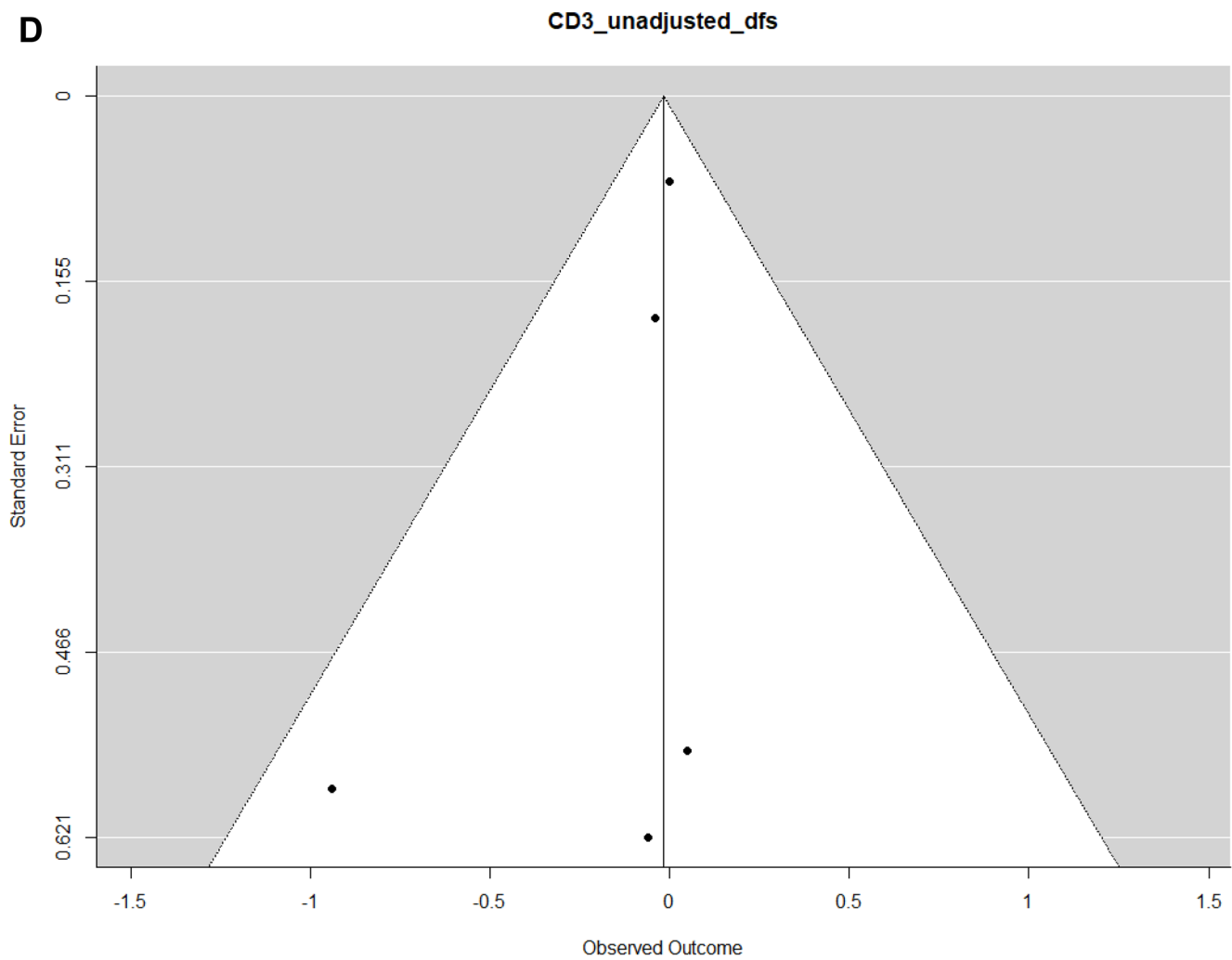
SUPPLEMENTARY MATERIALS

Supplementary Table 1: Reported unadjusted vs. adjusted survival estimates

Name	Year	Biomarker	Survival Type	Unadjusted HR (95% CI)	Adjusted HR (95% CI)
O'Callaghan	2015	CD3	OS	0.70 (0.47–1.05)	0.65 (0.41–1.02)
Sepesi	2017	CD3	OS	0.60 (0.32–1.12)	0.35 (0.11–1.09)
Sepesi	2017	CD4	OS	0.49 (0.29–0.85)	0.35 (0.11–1.09)
Matsubara	2019	CD4	OS	1.55 (1.03–2.37)	1.65 (1.07–2.55)
O'Callaghan	2015	CD8	OS	0.44 (0.29–0.67)	0.48 (0.30–0.76)
Yazdi	2016	CD8	OS	0.64 (0.40–1.04)	0.62 (0.38–1.01)
Ameratunga	2016	CD8	DFS	0.82 (0.64–1.04)	0.70 (0.50–0.97)
Teng	2016	CD8	OS	0.51 (0.29–0.98)	0.54 (0.28–1.05)
Teng	2016	CD8	DFS	0.39 (0.22–0.71)	0.22 (0.05–0.89)
Ye	2017	CD8	OS	0.71 (0.52–0.99)	0.70 (0.44–1.10)
Kinoshita	2017	CD8	DFS	2.92 (1.69–5.07)	2.01 (1.14–3.56)
Sepesi	2017	CD8	OS	1.88 (0.82–3.34)	1.70 (0.40–7.45)
Kinoshita	2016	CD20	DFS	0.53 (0.34–0.84)	0.51 (0.32–0.80)
Villegas	2002	CD57	OS	0.43 (0.20–0.95)	0.40 (0.17–0.93)
Sepesi	2017	CD57	OS	0.24 (0.03–1.70)	0.60 (0.05–6.51)
Kojima	2002	CD68	OS	1.45 (0.71–2.97)	1.43 (0.66–3.09)
Sepesi	2017	CD68	OS	0.35 (0.12–0.97)	0.79 (0.11–5.63)
Cao	2019	CD68	OS	4.19 (1.90–9.27)	2.86 (1.13–7.26)
Cao	2019	CD68	DFS	2.09 (1.26–3.46)	1.81 (1.09–3.02)
Hanagiri	2013	FoxP3	OS	2.56 (1.28–5.10)	1.82 (0.90–3.69)
Hanagiri	2014	FoxP3	OS	2.82 (1.00–7.93)	4.22 (1.11–5.56)
O'Callaghan	2015	FoxP3	OS	4.86 (3.11–7.59)	3.91 (2.33–6.55)
Barua	2018	FoxP3	OS	1.43 (0.63–3.21)	1.52 (1.11–2.07)
Kojima	2002	Mast Cells	OS	2.31 (1.09–4.89)	1.16 (0.51–2.67)
Pelosi	2004	Mast Cells	OS	2.30 (1.20–4.90)	1.70 (0.60–4.60)
Pelosi	2004	Mast Cells	DFS	2.30 (1.20–4.70)	1.50 (0.60–3.60)
Kojima	2005	Mast Cells	OS	2.04 (1.05–3.96)	1.15 (0.53–2.48)

A**CD3+ T cells**

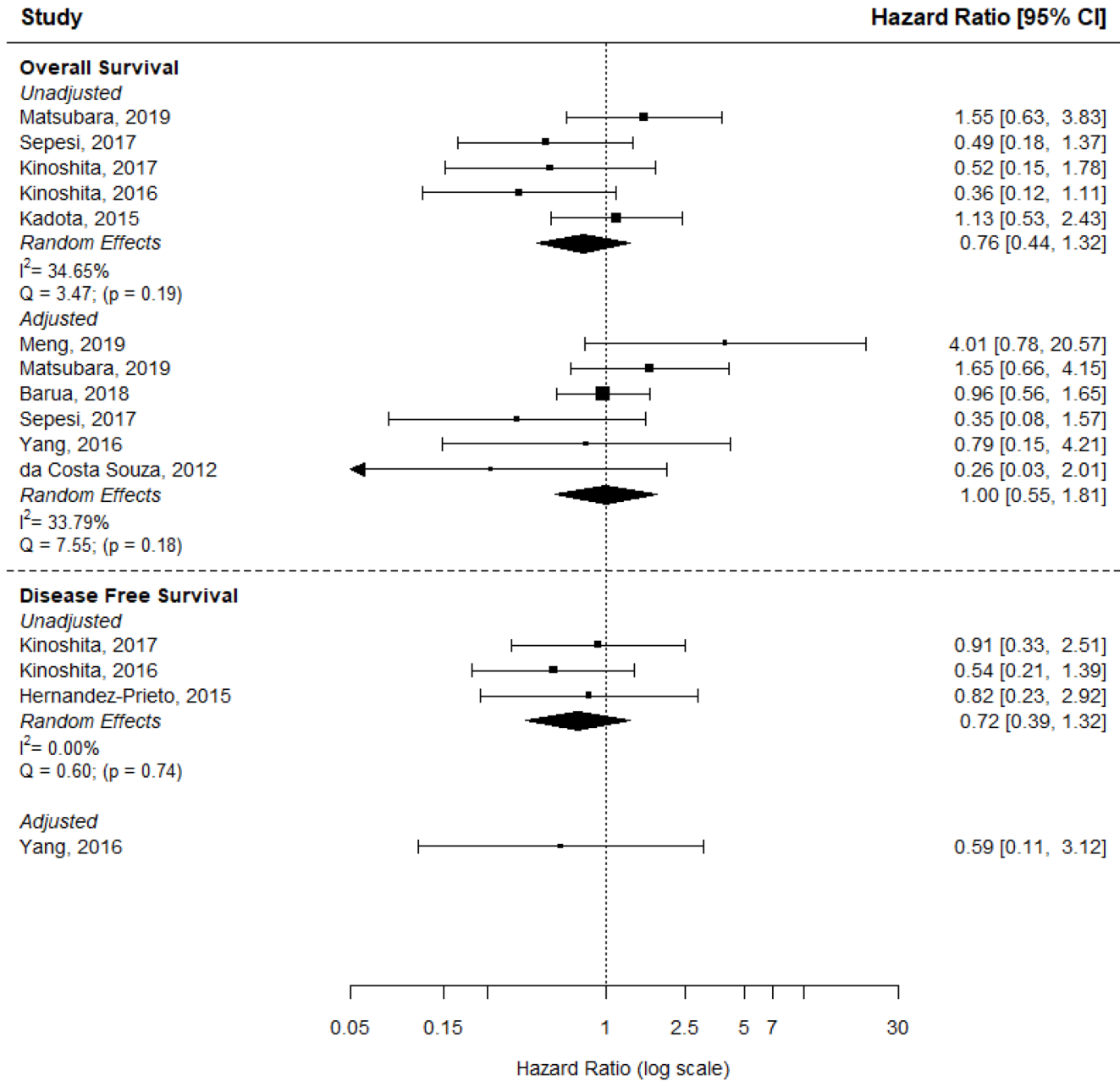
B**CD3_unadjusted_OS****C****CD3_adjusted_OS**

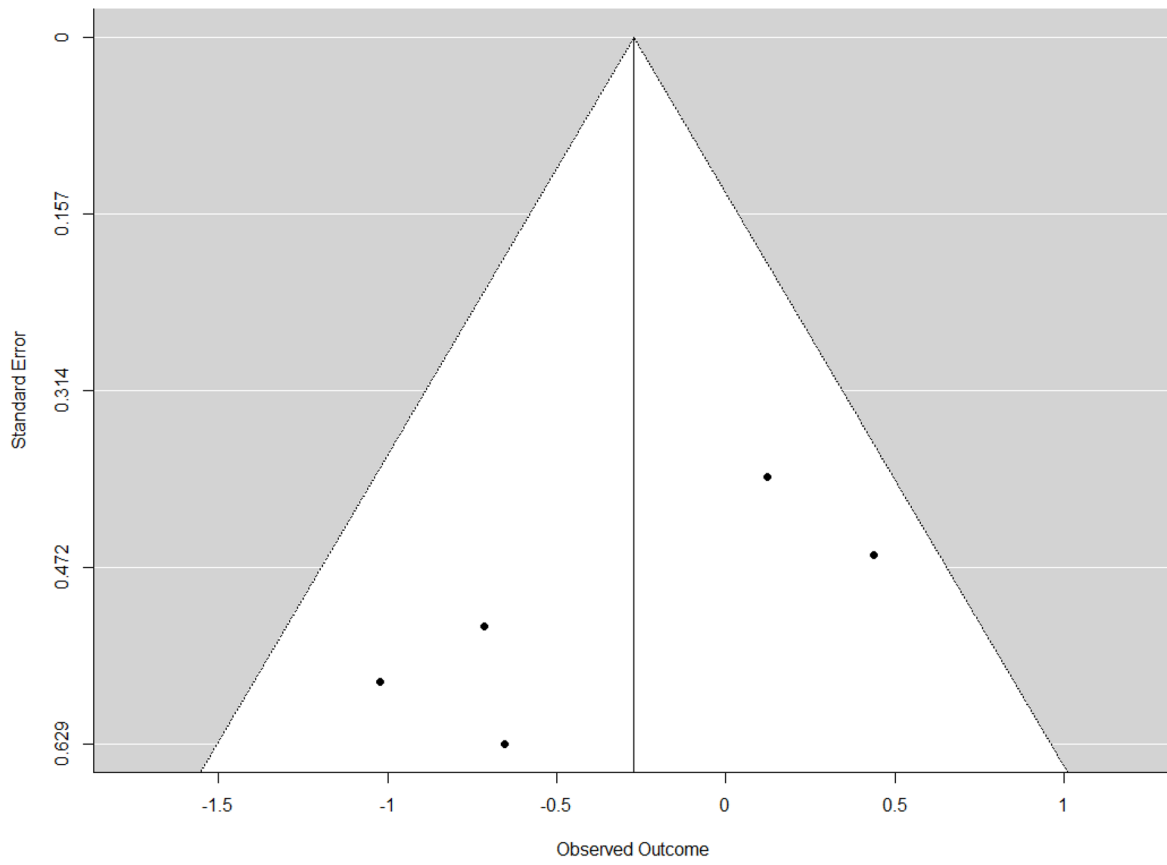
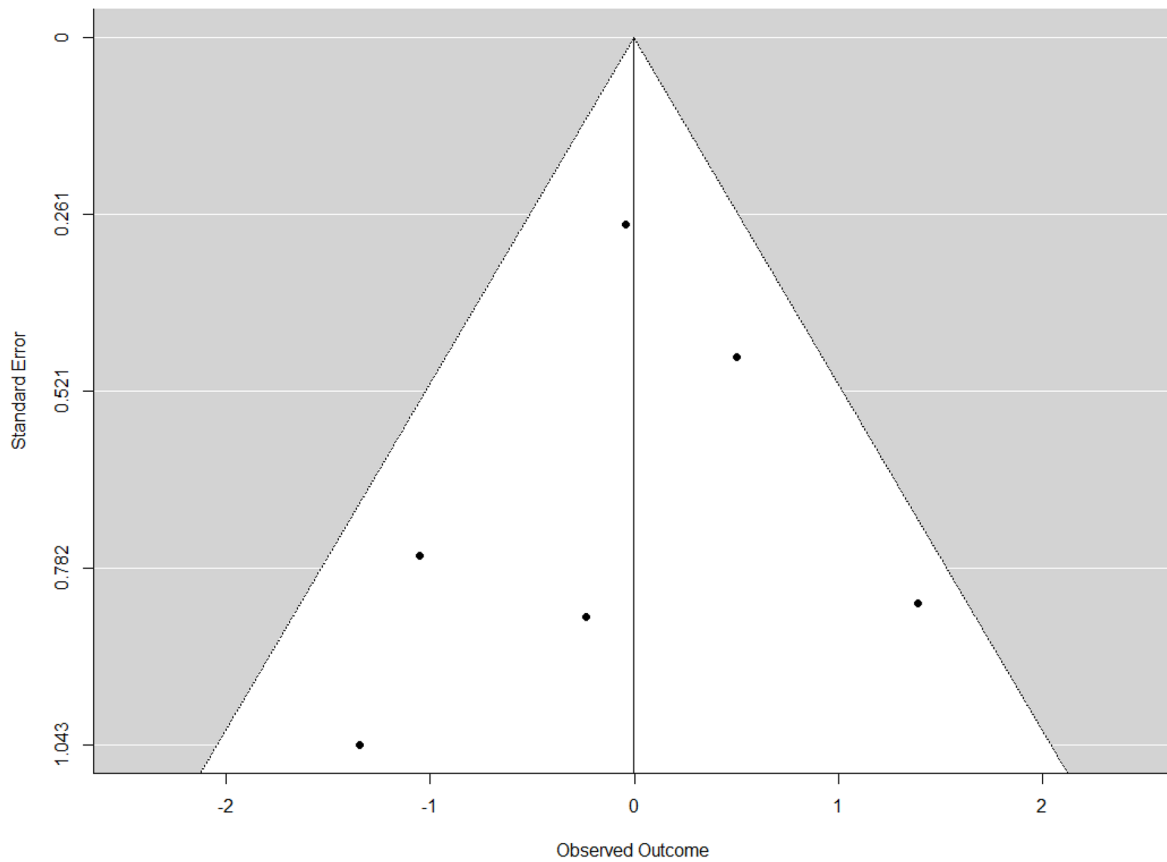


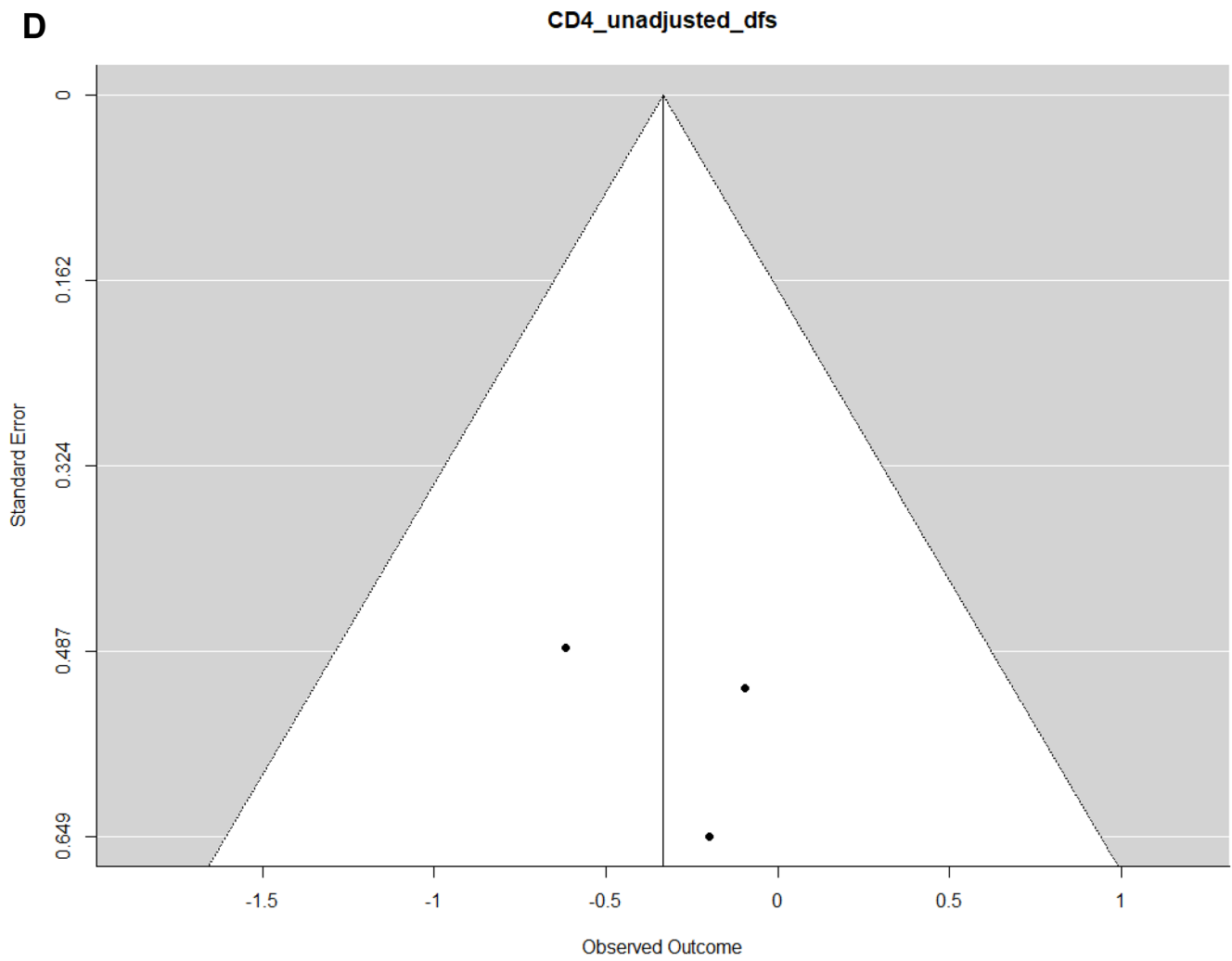
Supplementary Figure 1: (A) Forest Plot of CD3+T Cells. (B) Funnel Plot of CD3+T Cells Unadjusted OS Studies. (C) Funnel Plot of CD3+T Cells Adjusted OS Studies. (D) Funnel Plot of CD3+T Cells Unadjusted DFS Studies.

A

CD4+ T Helper cells



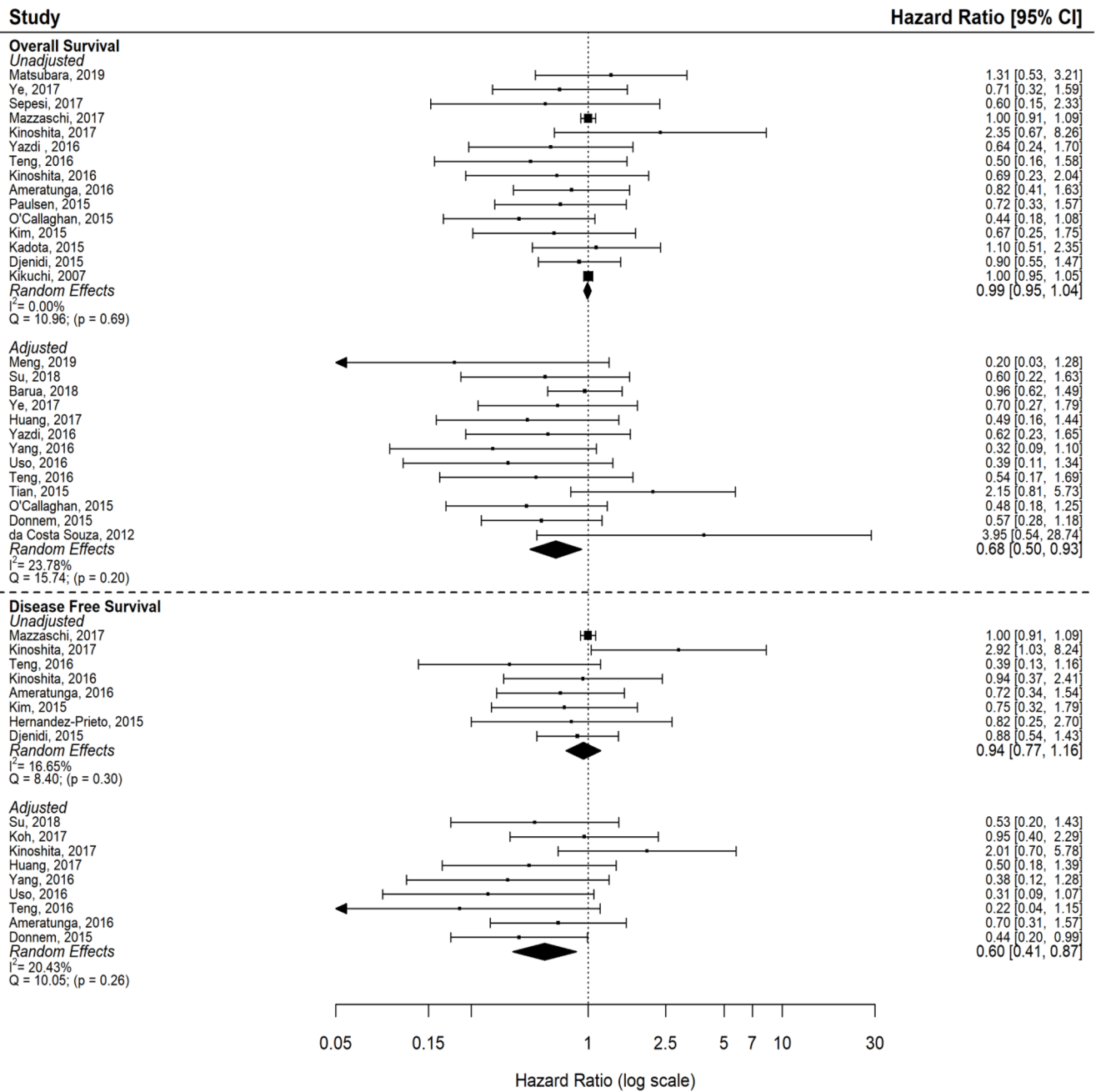
B**CD4_unadjusted_os****C****CD4_adjusted_os**

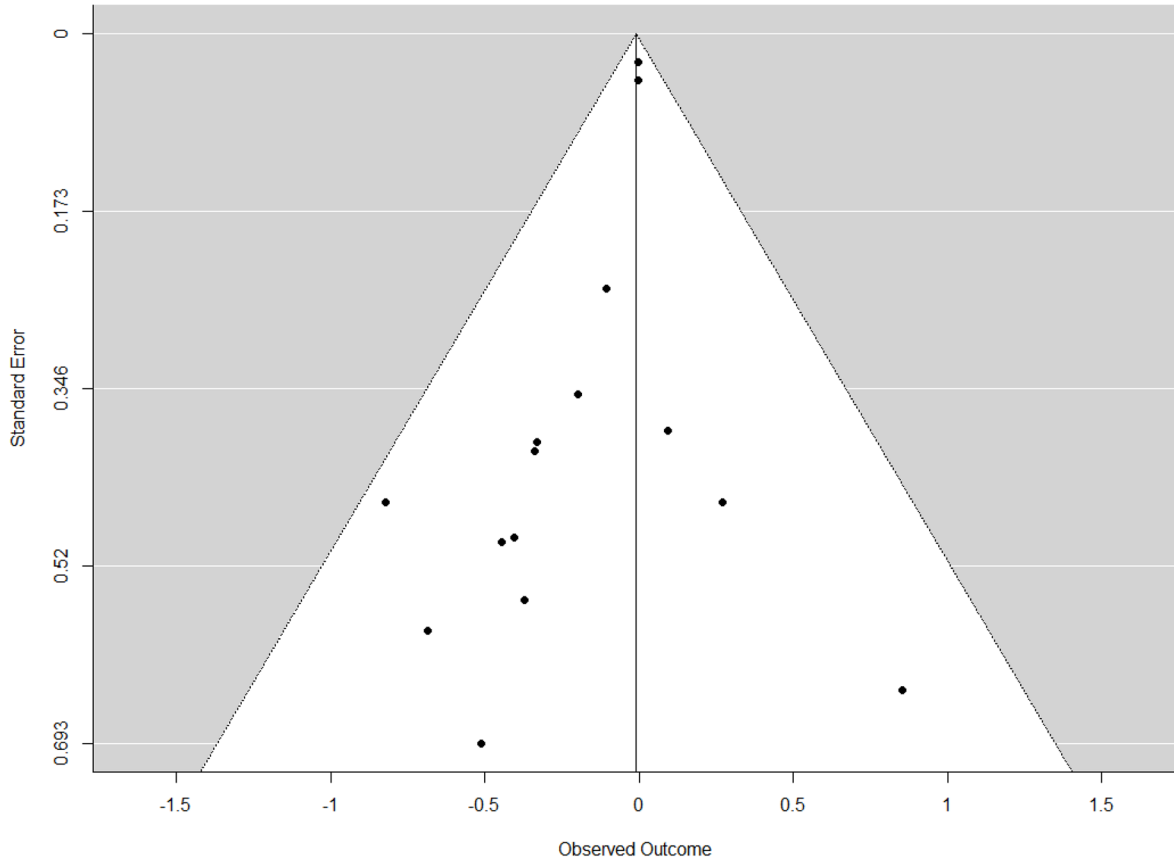
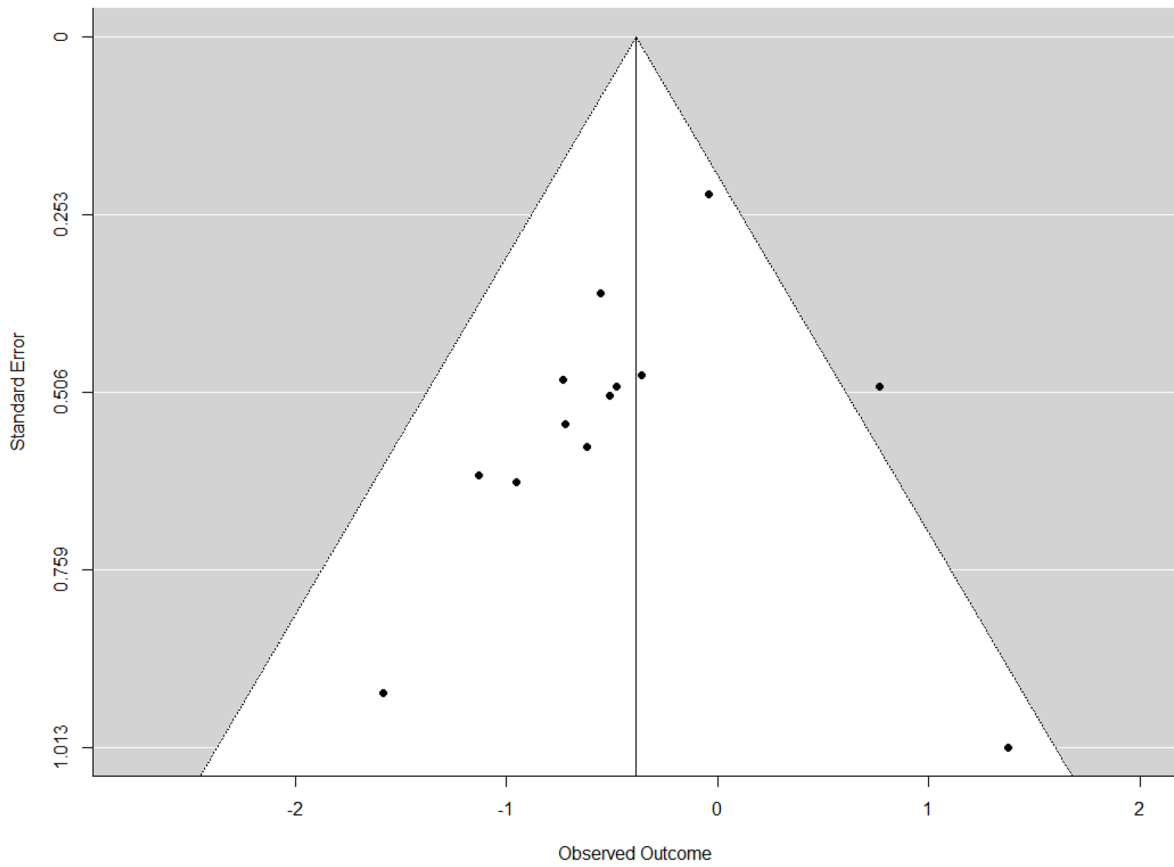


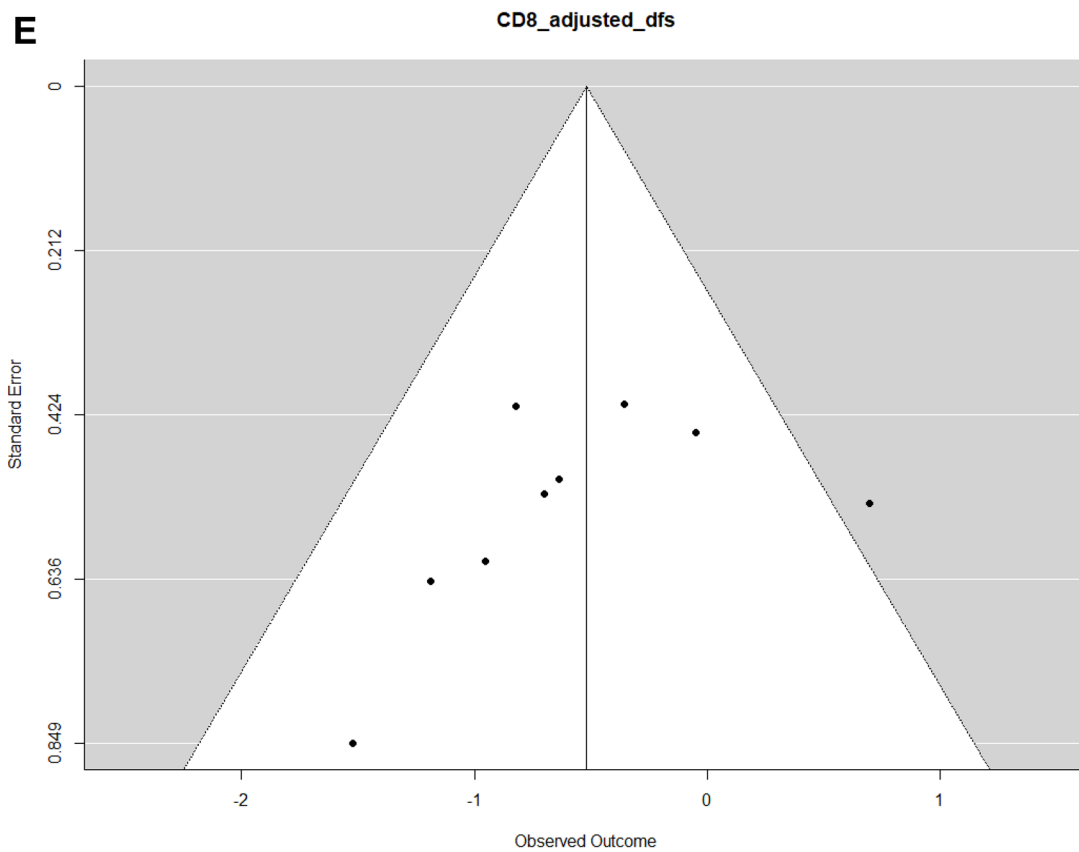
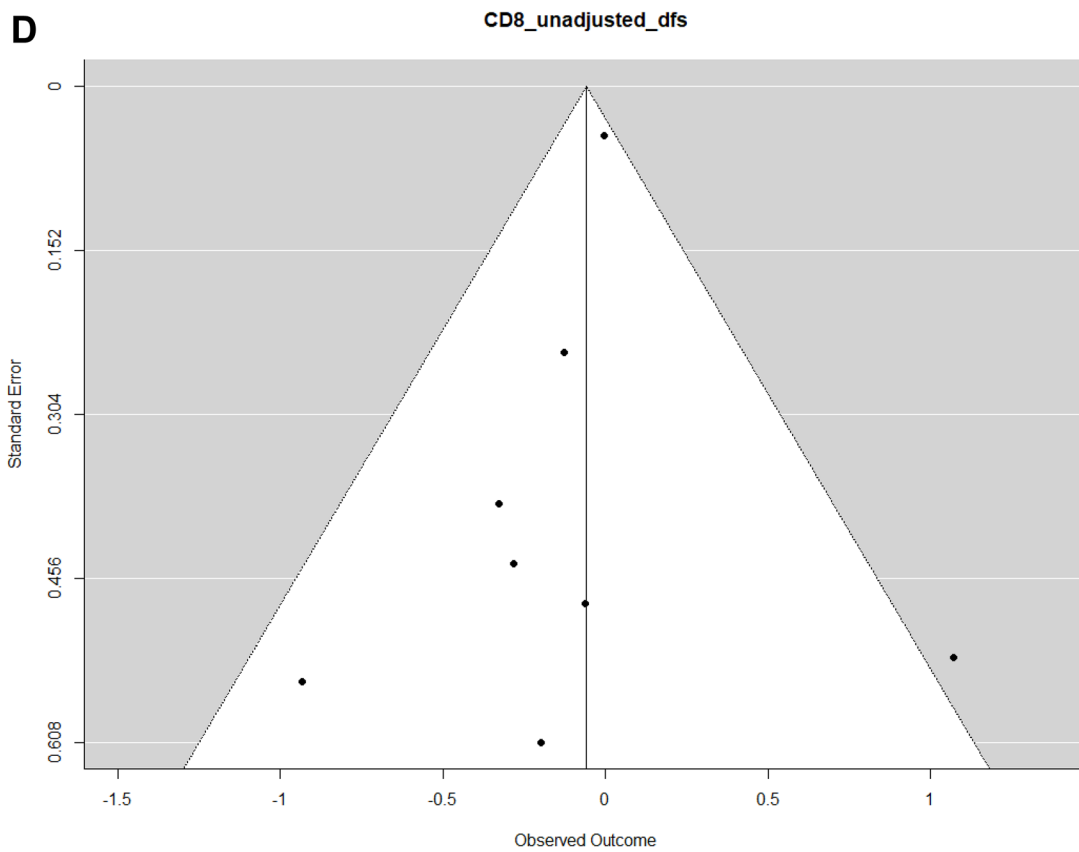
Supplementary Figure 2: (A) Forest Plot of CD4+ T Helper cells. (B) Funnel Plot of CD4+ T Helper cells Unadjusted OS Studies. (C) Funnel Plot of CD4+ T Helper cells Adjusted OS Studies. (D) Funnel Plot of CD4+ T Helper cells Unadjusted DFS Studies.

A

CD8+ T cytotoxic cells



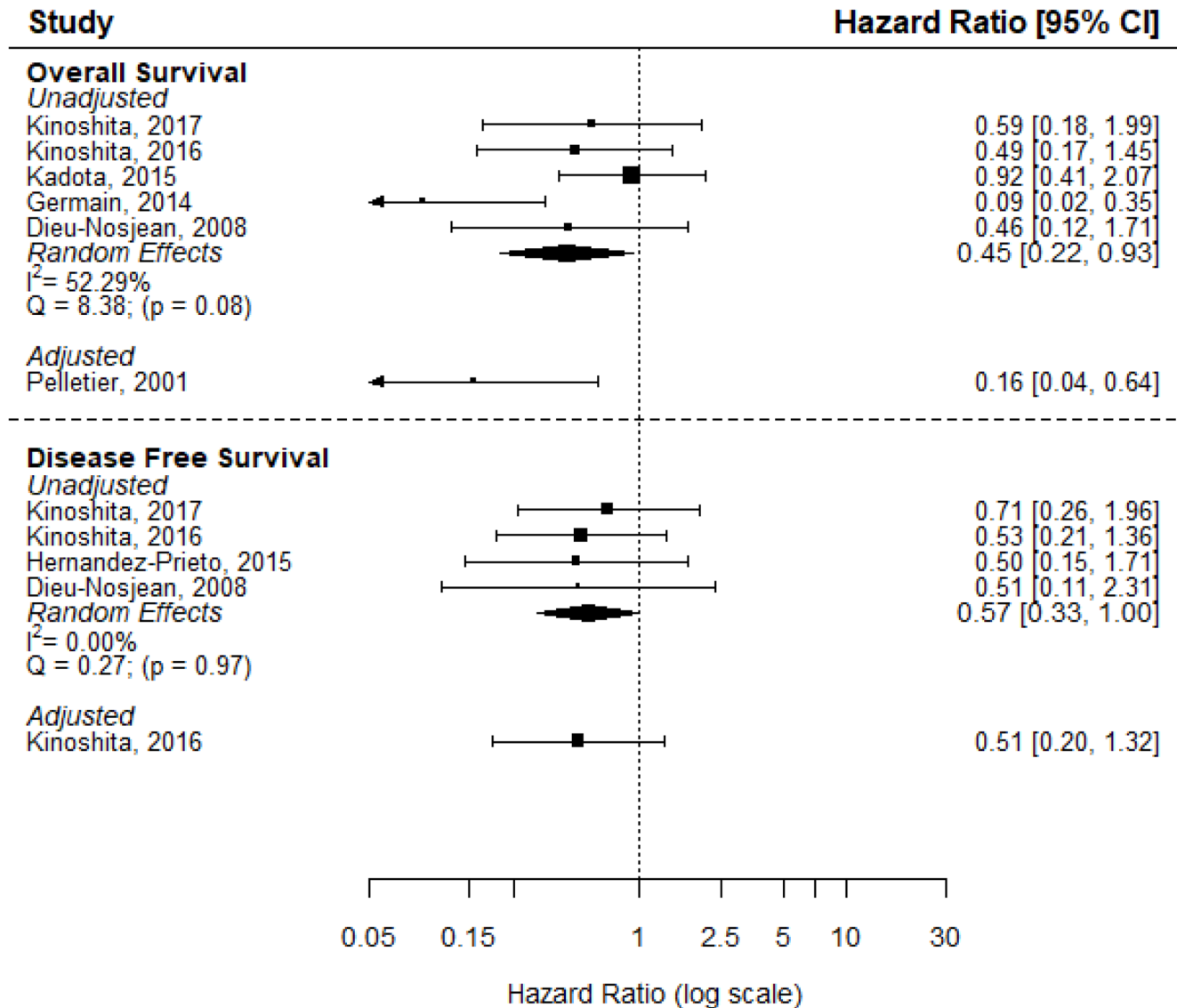
B**CD8_unadjusted_os****C****CD8_adjusted_os**

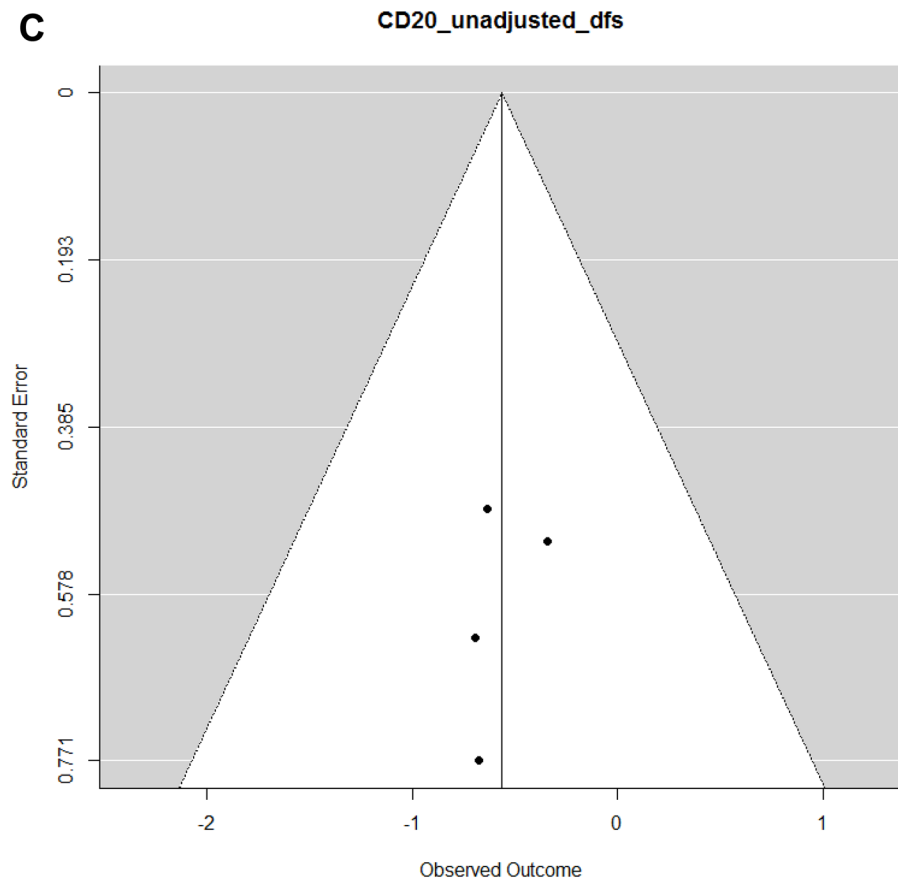
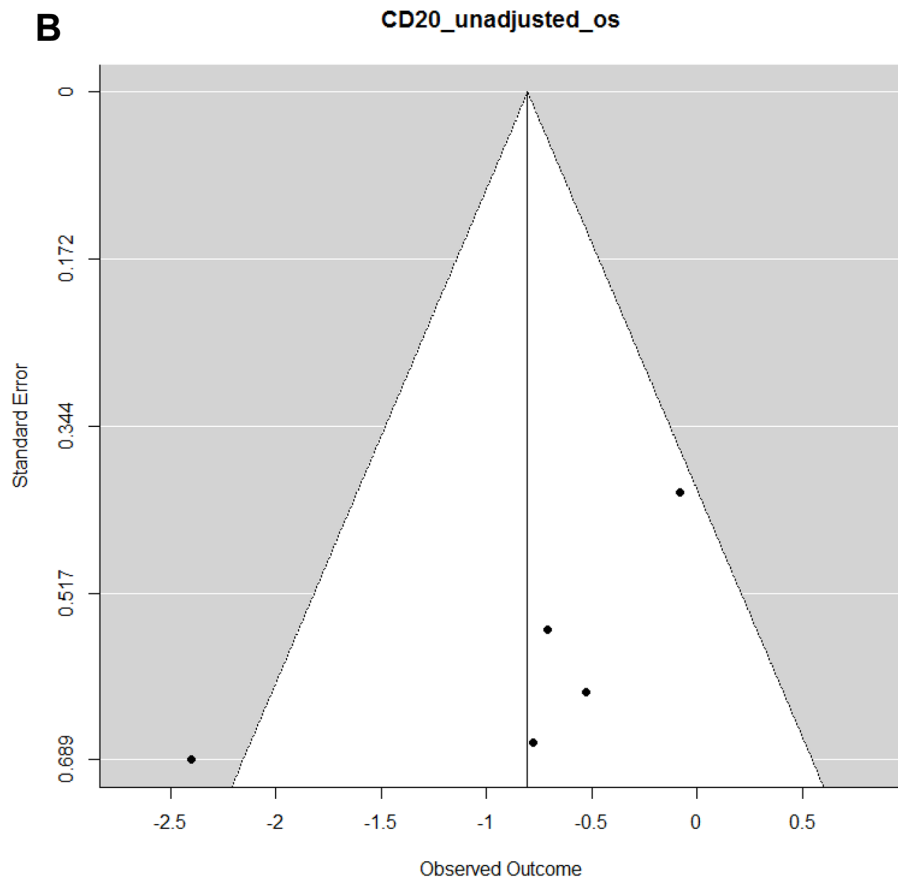


Supplementary Figure 3: (A) Forest Plot of CD8+ T cytotoxic cells. (B) Funnel Plot of CD8+ T cytotoxic cells Unadjusted OS Studies. (C) Funnel Plot of CD8+ T cytotoxic cells Adjusted OS Studies. (D) Funnel Plot of CD8+ T cytotoxic cells Unadjusted DFS Studies. (E) Funnel Plot of CD8+ T cytotoxic cells Adjusted DFS Studies.

A

CD20+ B cells

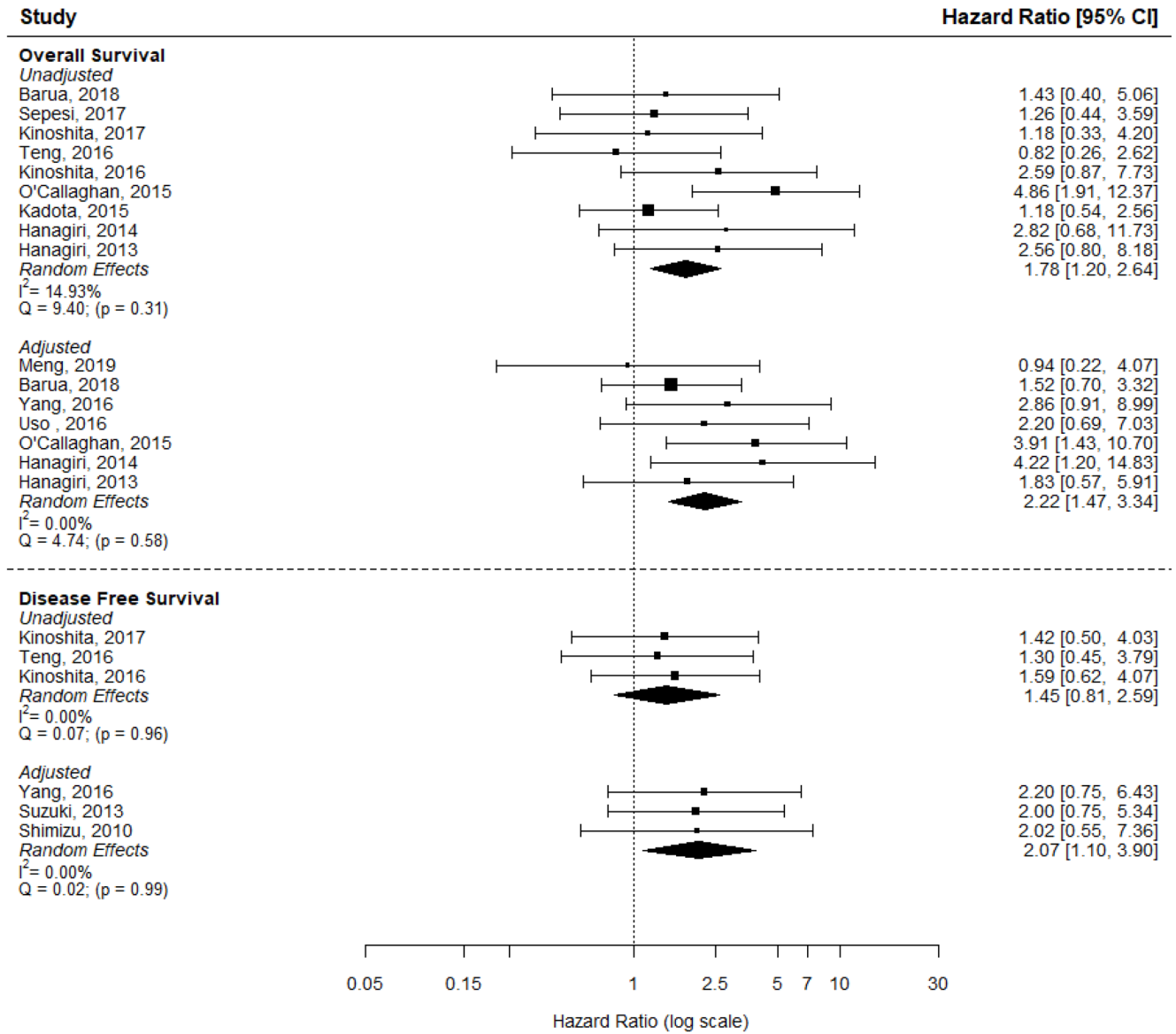


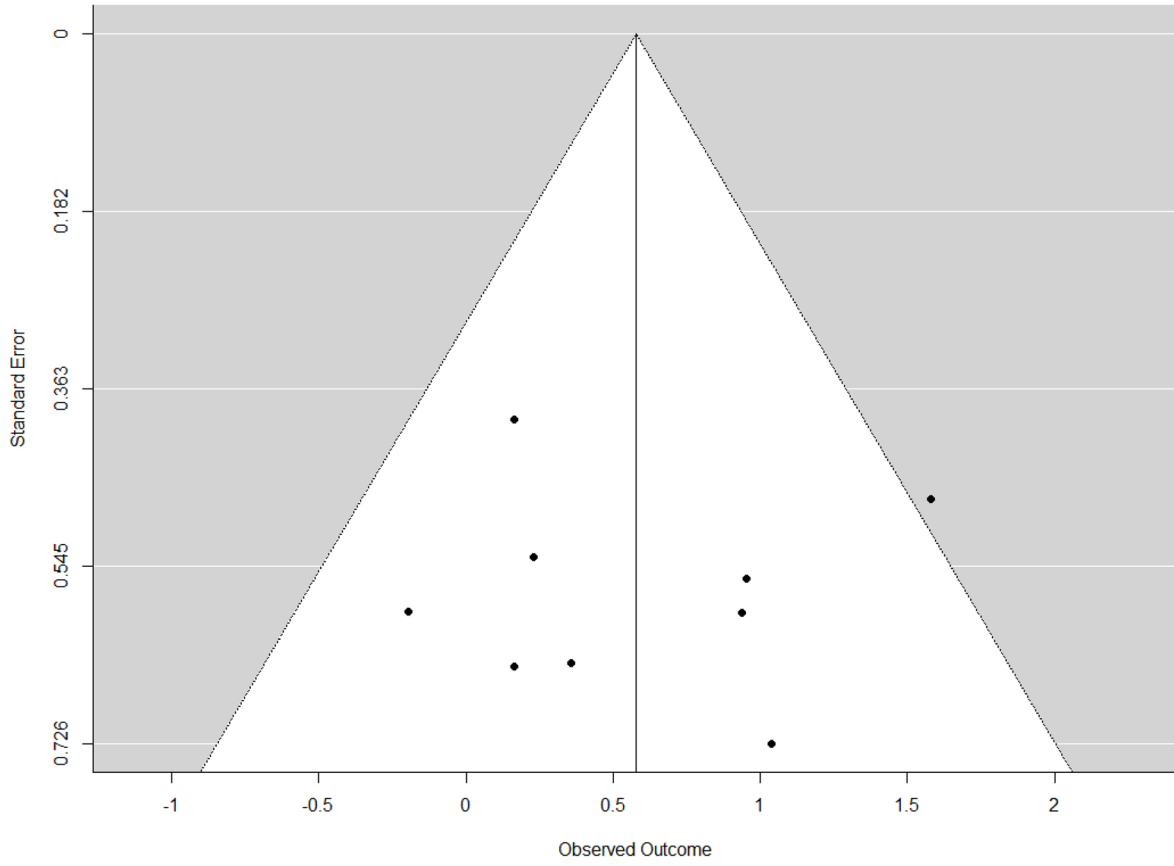
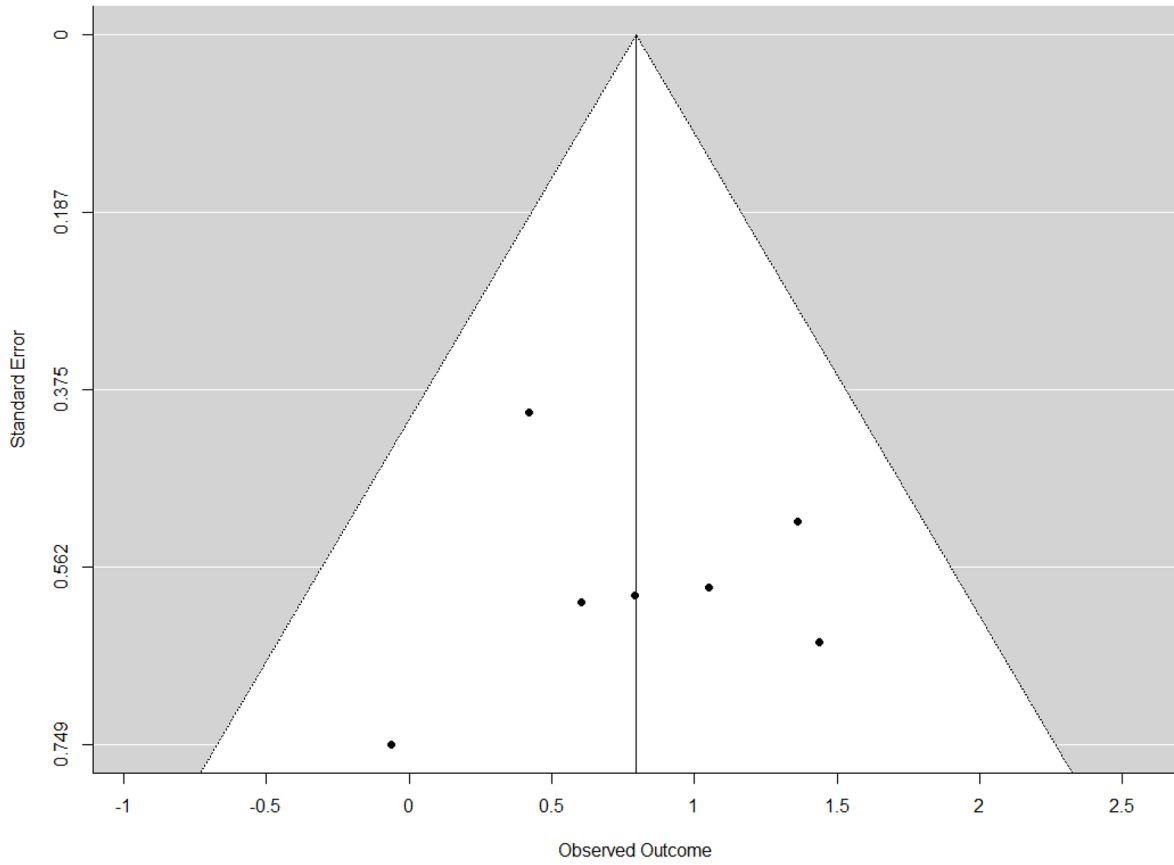


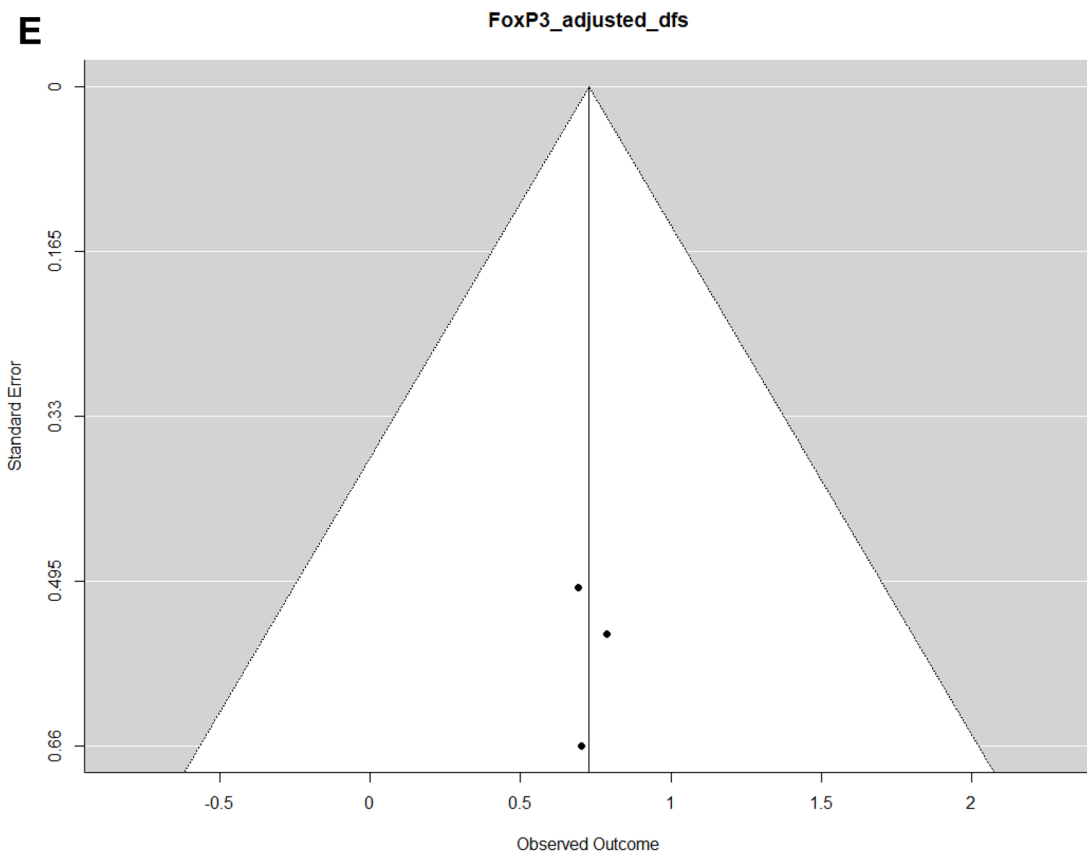
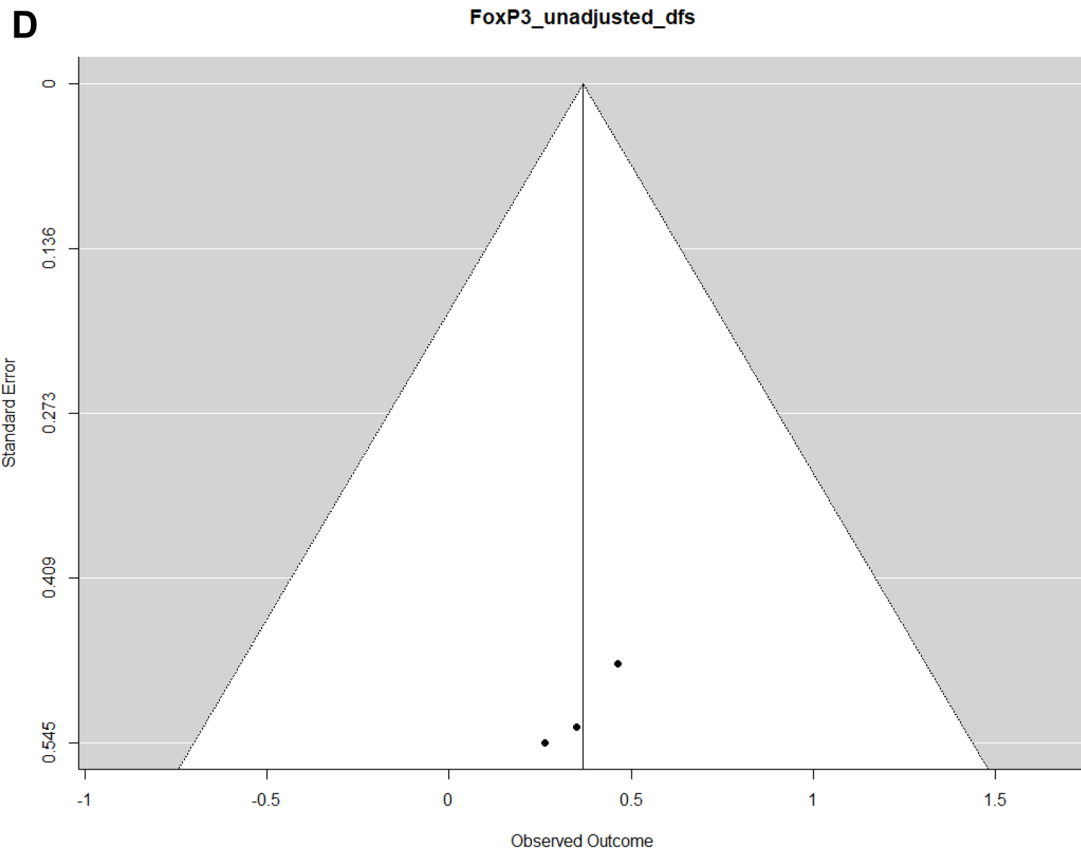
Supplementary Figure 4: (A) Forest Plot of CD20+ B cells. (B) Funnel Plot of CD20+ B cells Unadjusted OS Studies. (C) Funnel Plot of CD20+ B cells Unadjusted DFS Studies.

A

FoxP3+ T Regulatory cells



B**FoxP3_unadjusted_os****C****FoxP3_adjusted_os**



Supplementary Figure 5: (A) Forest Plot of FoxP3+T Regulatory cells. (B) Funnel Plot of FoxP3+T Regulatory cells Unadjusted OS Studies. (C) Funnel Plot of FoxP3+T Regulatory cells Adjusted OS Studies. (D) Funnel Plot of FoxP3+T Regulatory cells Unadjusted DFS Studies. (E) Funnel Plot of FoxP3+T Regulatory cells Adjusted DFS Studies.

A

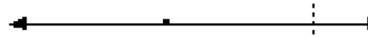
Natural Killer cells (CD56/CD57+)

Study

Hazard Ratio [95% CI]

Overall Survival*Unadjusted*

Sepesi, 2017



0.23 [0.03, 1.72]

Kikuchi, 2007



0.89 [0.48, 1.67]

Villegas, 2002



0.43 [0.12, 1.50]

Random Effects

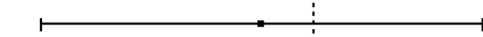
0.66 [0.35, 1.25]

 $I^2 = 13.63\%$

Q = 2.32; (p = 0.31)

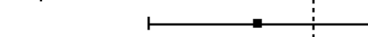
Adjusted

Sepesi, 2017



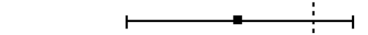
0.60 [0.07, 5.33]

Huang, 2017



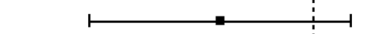
0.58 [0.19, 1.74]

Parra, 2016



0.48 [0.16, 1.46]

Villegas, 2002



0.40 [0.11, 1.45]

Random Effects

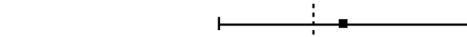
0.50 [0.26, 0.95]

 $I^2 = 0.00\%$

Q = 0.22; (p = 0.97)

Disease Free Survival*Unadjusted*

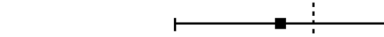
Hernandez-Prieto, 2015



1.35 [0.39, 4.66]

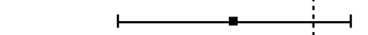
Adjusted

Huang, 2017



0.73 [0.26, 2.06]

Parra, 2016



0.46 [0.14, 1.45]

Random Effects

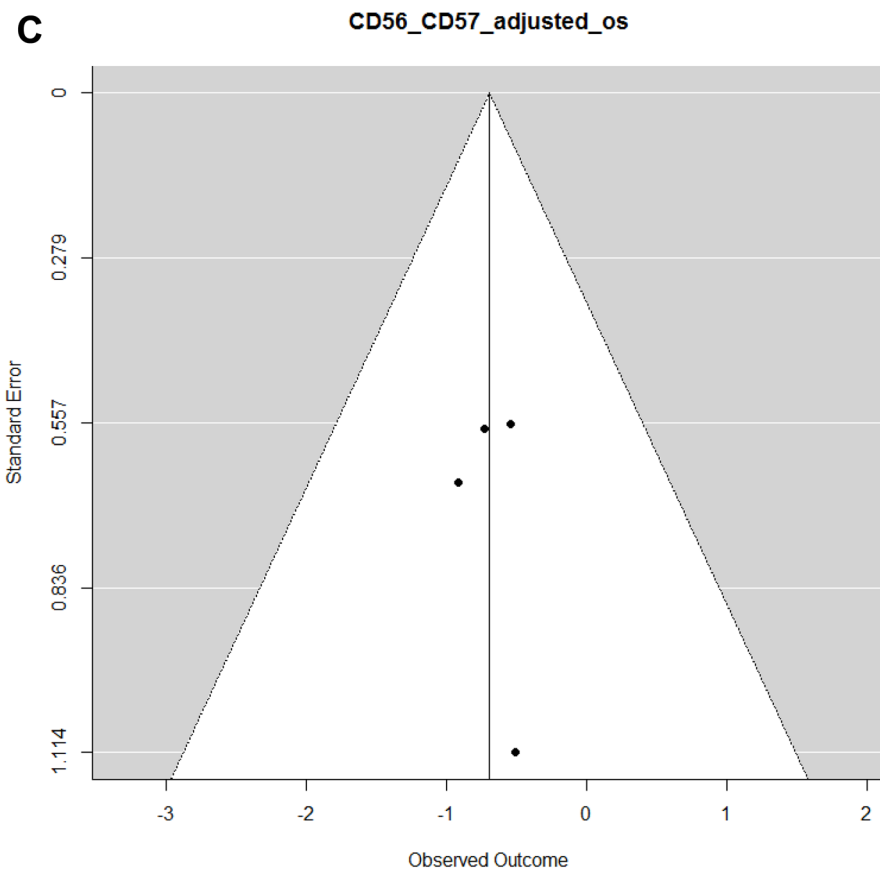
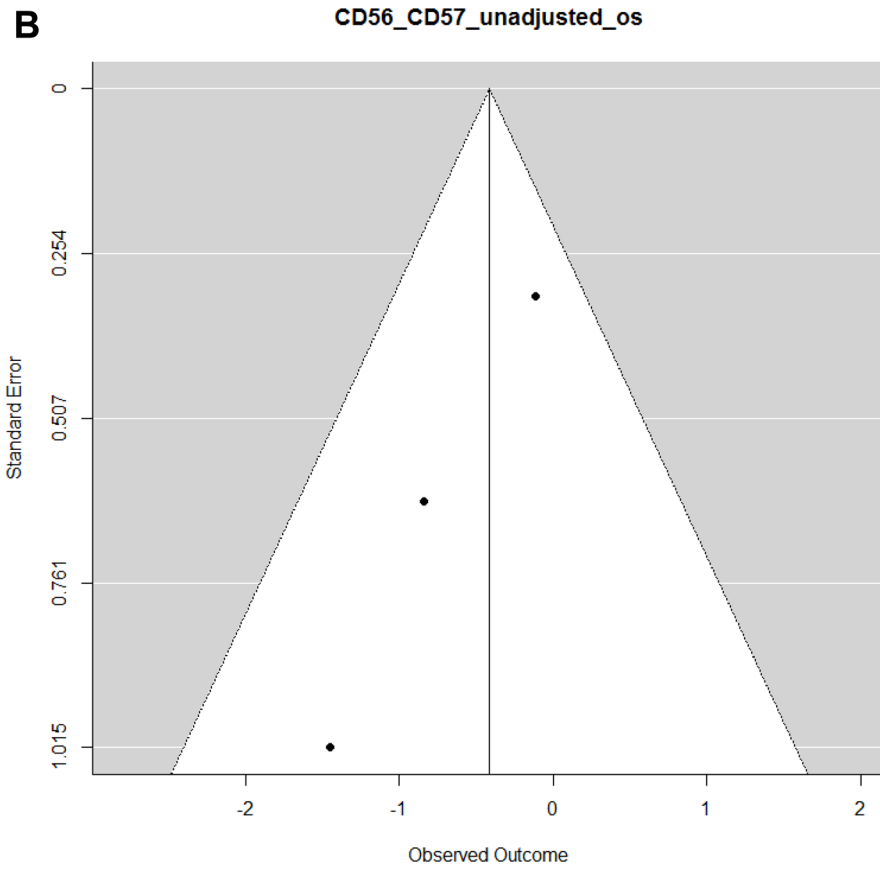
0.59 [0.27, 1.28]

 $I^2 = 0.00\%$

Q = 0.34; (p = 0.56)

0.05 0.15 1 2.5 5 10 30

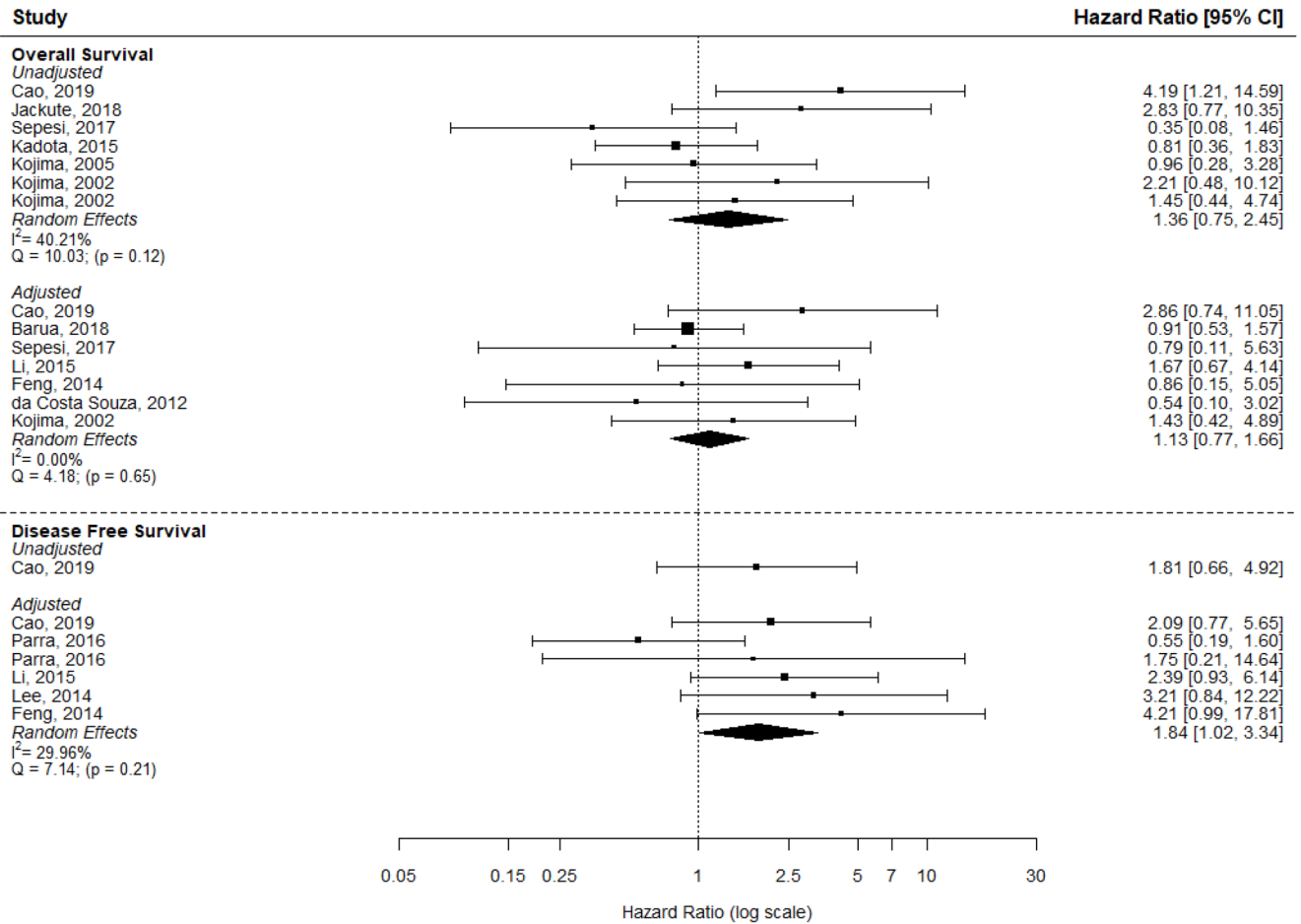
Hazard Ratio (log scale)

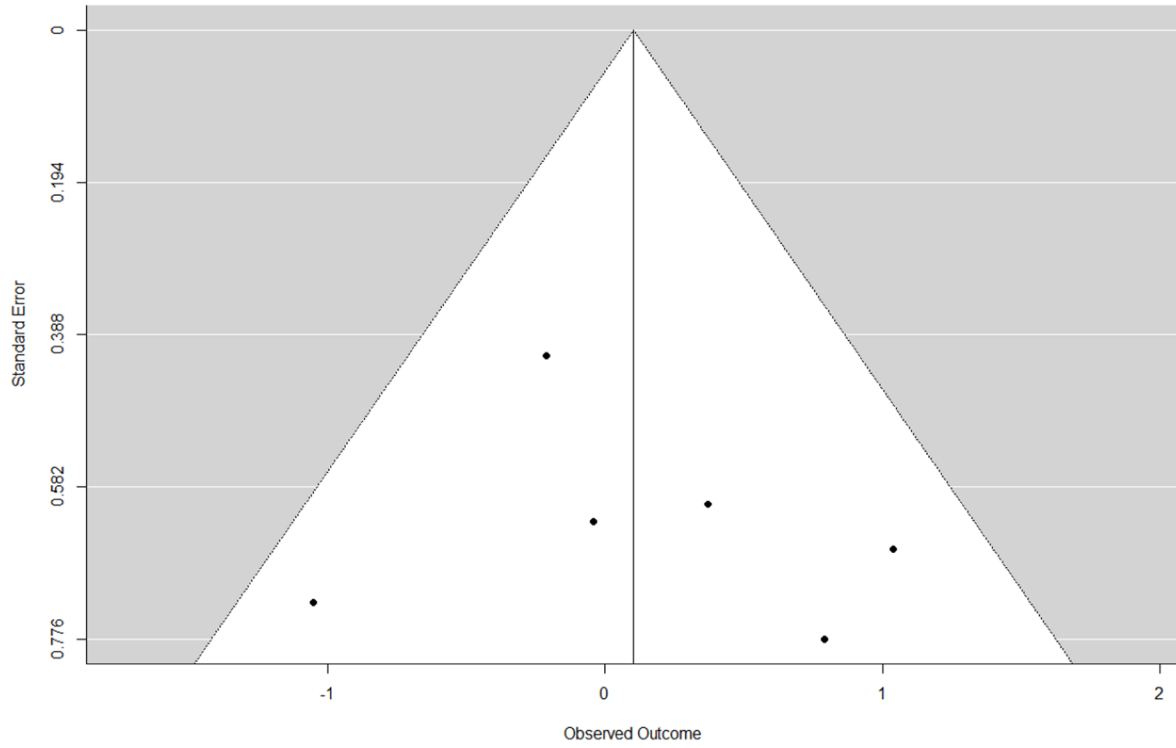
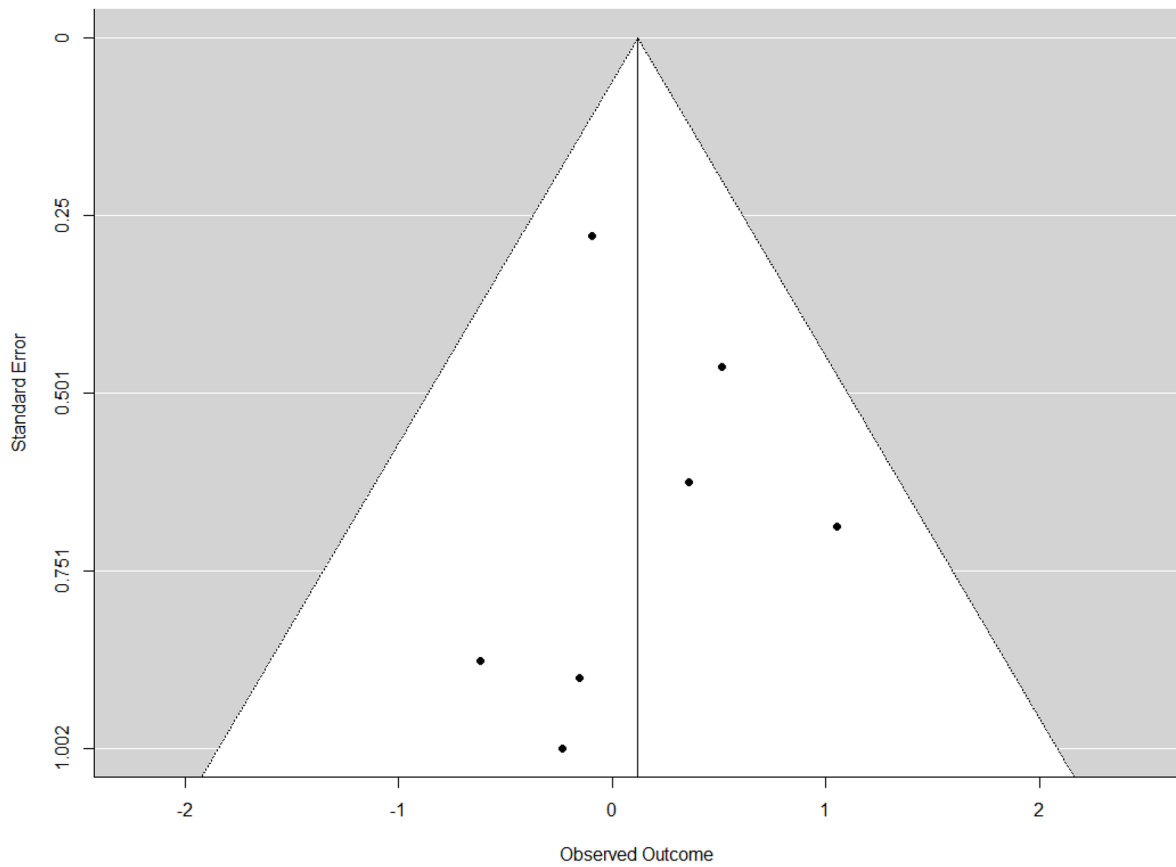


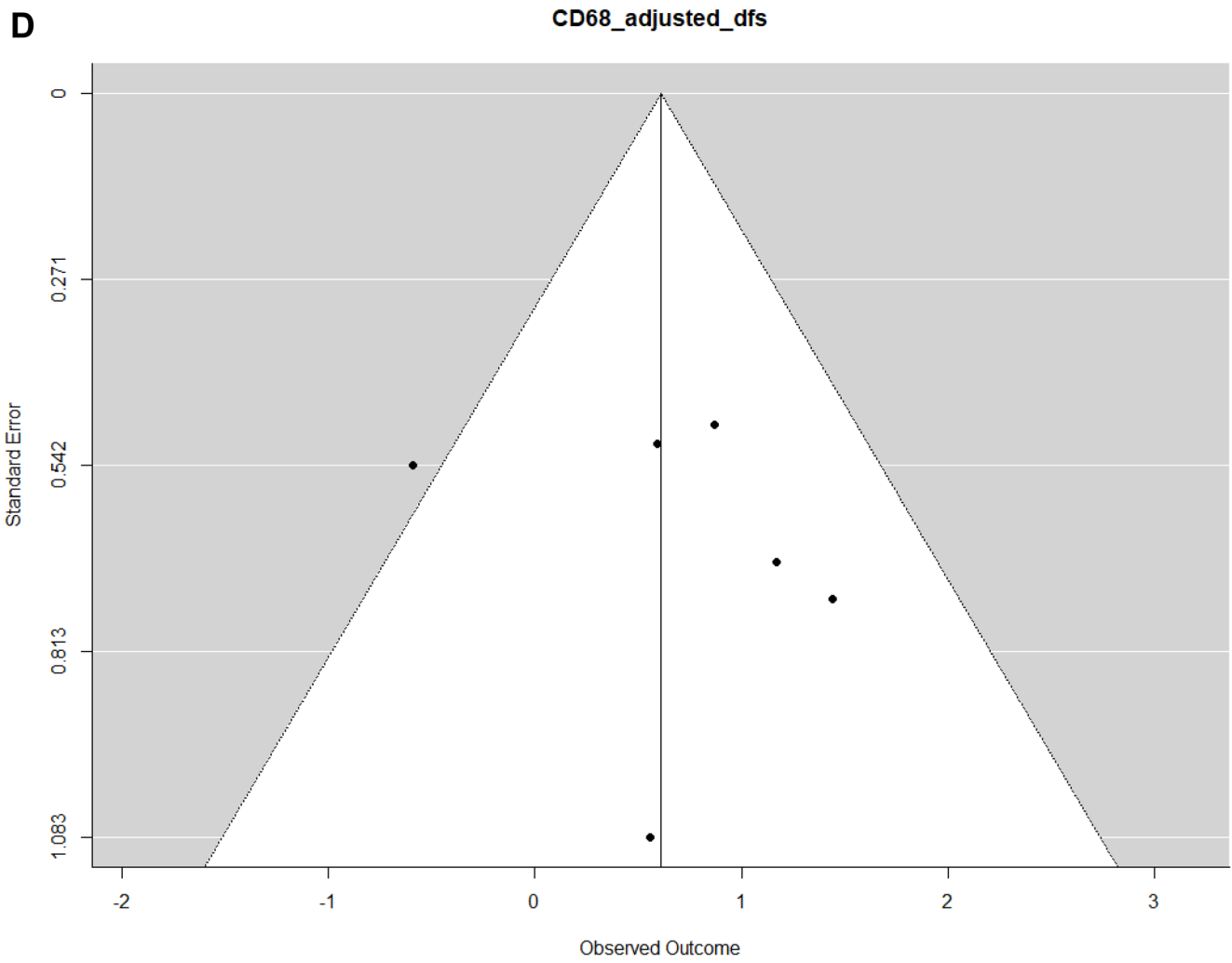
Supplementary Figure 6: (A) Forest Plot of NK cells (CD56/CD57+). (B) Funnel Plot of NK cells (CD56/CD57+) Unadjusted OS Studies. (C) Funnel Plot of NK cells (CD56/CD57+) Adjusted OS Studies.

A

Macrophages (CD68+)



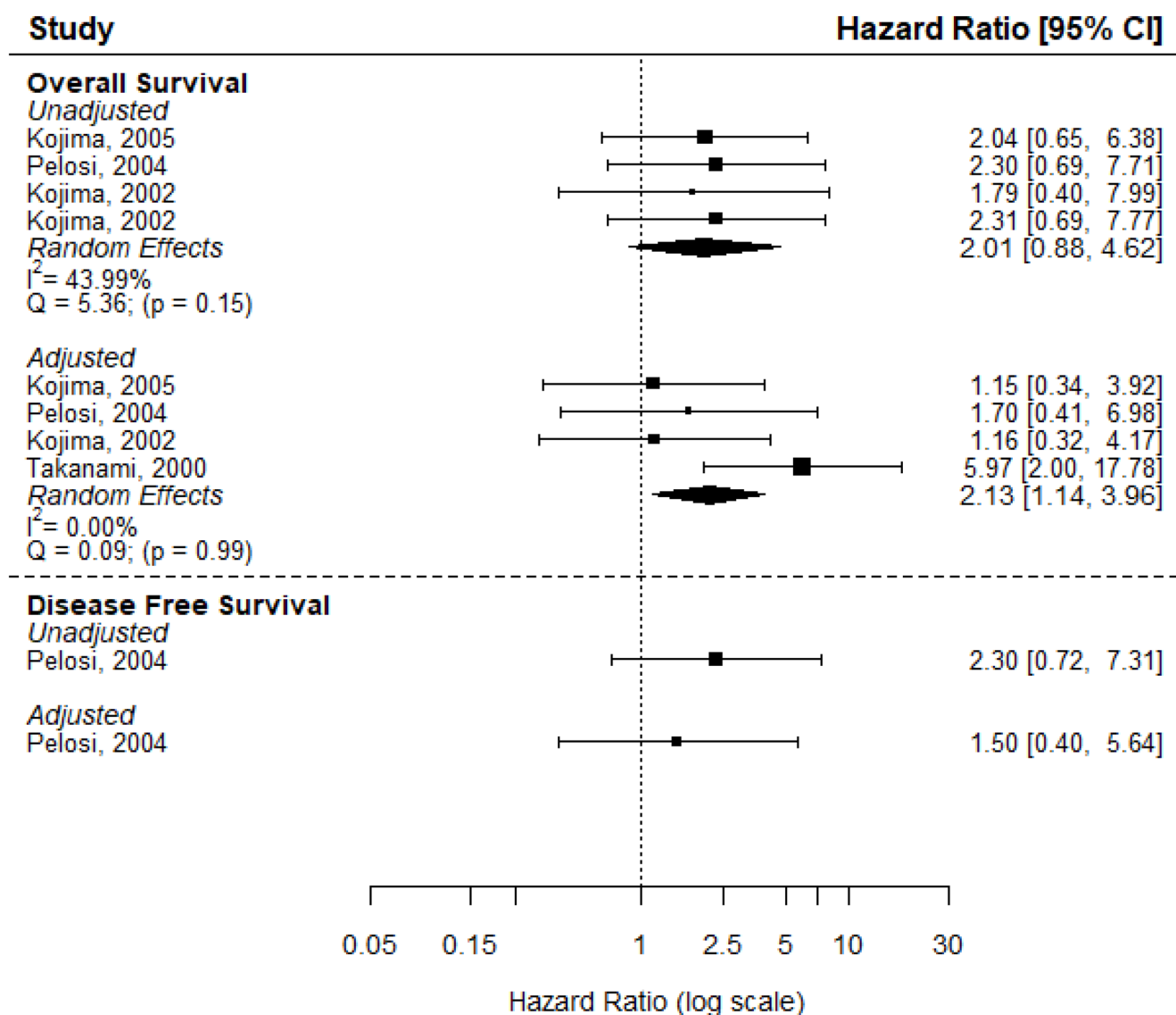
B**CD68_unadjusted_os****C****CD68_adjusted_os**

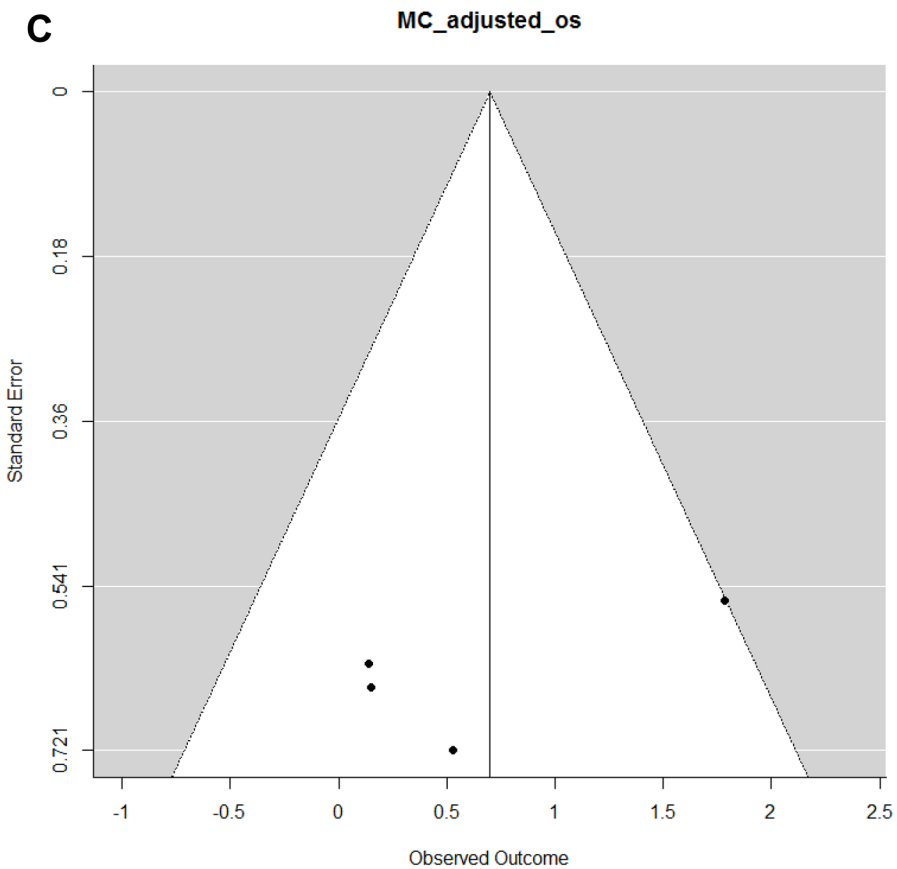
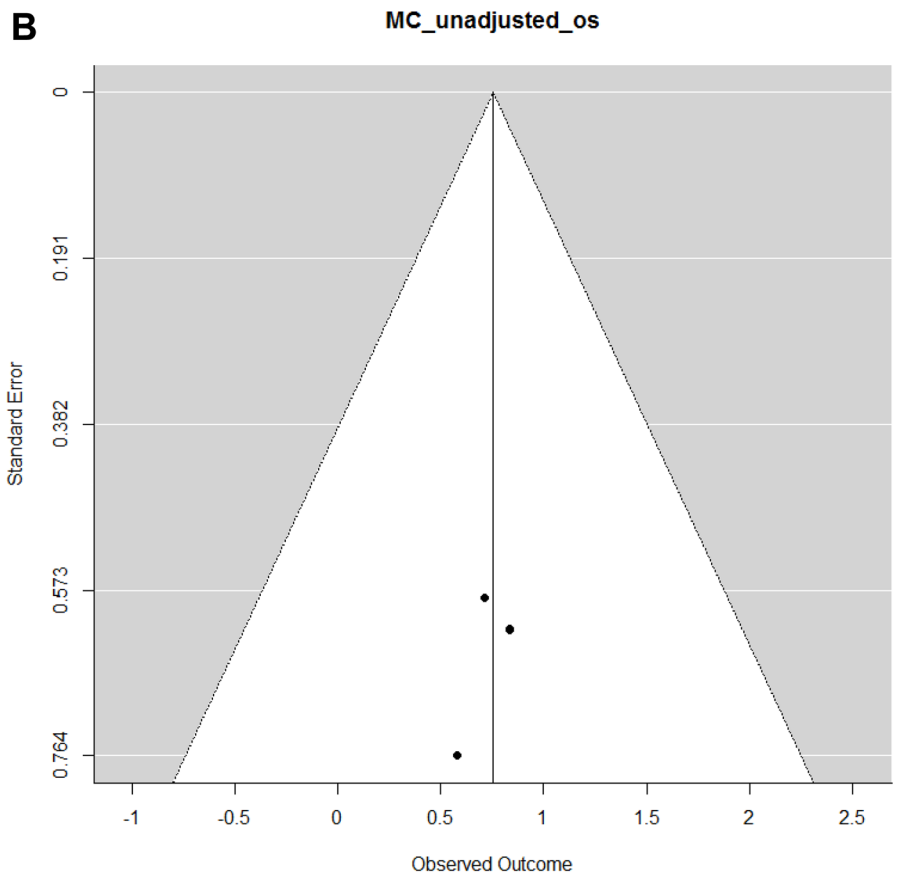


Supplementary Figure 7: (A) Forest Plot of macrophages (CD68+). (B) Funnel Plot of macrophages (CD68+) Unadjusted OS Studies. (C) Funnel Plot of macrophages (CD68+) Adjusted OS Studies. (D) Funnel Plot of macrophages (CD68+) Adjusted DFS Studies.

A

Mast Cells





Supplementary Figure 8: (A) Forest Plot of MCs. (B) Funnel Plot of MCs Unadjusted OS Studies. (C) Funnel Plot of MCs Adjusted OS Studies.