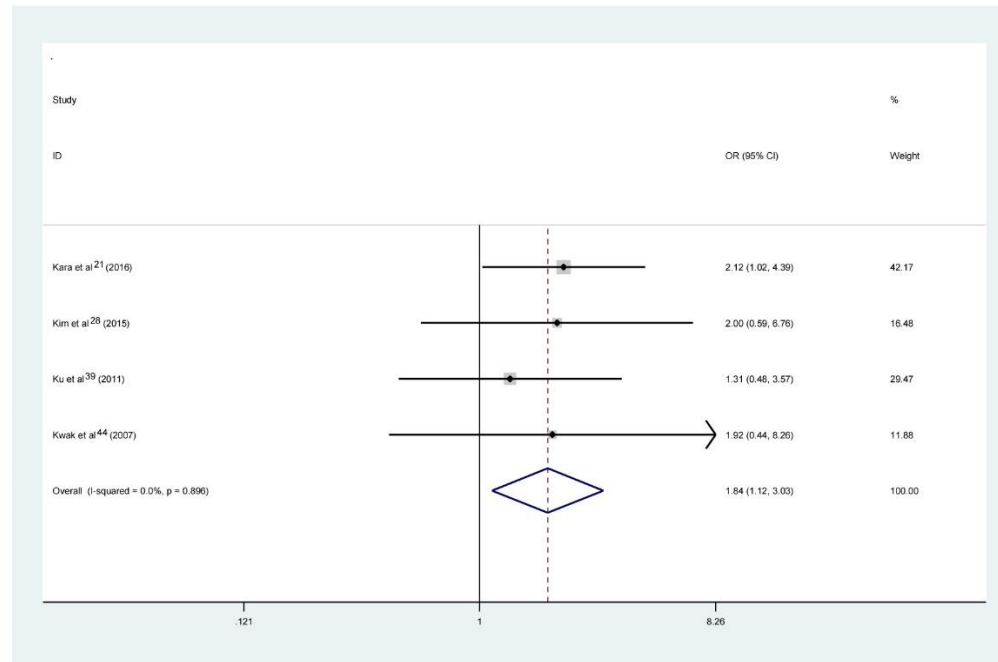


Table S1. Quality assessment of prognosis cohort studies by QUIPS tool

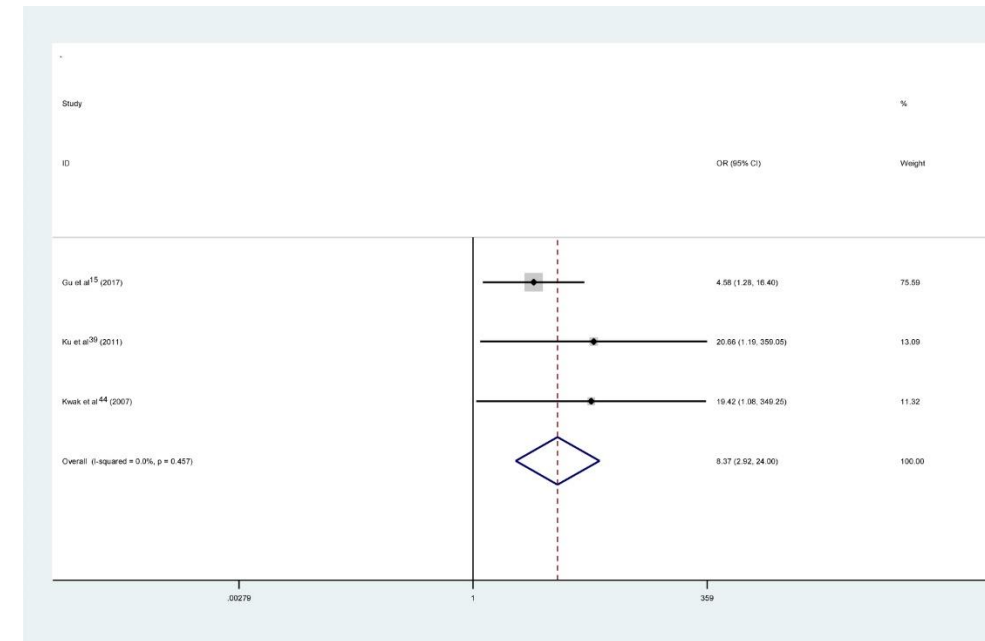
Study	Study participation	Study attrition	Prognostic factor measurement	Study confounding	Outcome measurement	Statistical analysis and reporting
Zhang et al ¹²	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Xie et al ¹³	Low risk	Low risk	Low risk	Moderate risk	Low risk	Low risk
Wu et al ¹⁴	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Gu et al ¹⁵	Low risk	Low risk	Low risk	Low risk	Moderate	Low risk
Gershman et al ¹⁶	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Chipollini et al ¹⁷	Low risk	Low risk	Low risk	Moderate	Low risk	Moderate risk
NguyenHoang et al ¹⁸	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Khor et al ¹⁹	Low risk	Moderate risk	Low risk	Low risk	Low risk	Low risk
Lee et al ²⁰	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Kara et al ²¹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Jeon et al ²²	Low risk	Low risk	Low risk	Low risk	Low risk	Moderate risk
Errarte et al ²³	Moderate risk	Low risk	Low risk	Low risk	Low risk	Low risk
Yu et al ²⁴	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Schiavina et al ²⁵	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Psutka et al ²⁶	Low risk	Low risk	Low risk	Moderate risk	Low risk	Low risk
Lee et al ²⁷	Low risk	Low risk	Low risk	Low risk	Low risk	Moderate
Kim et al ²⁸	Moderate risk	Low risk	Low risk	Low risk	Low risk	Low risk
Weiss et al ²⁹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk

Teng et al ³⁰	Low risk	Low risk	Low risk	Moderate risk	Low risk	Low risk
Haddad et al ³¹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
El-Mokadem et al ³²	Moderate risk	Low risk	Low risk	Low risk	Low risk	Low risk
Tosco et al ³³	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Kruck et al ³⁴	Low risk	Low risk	Low risk	Moderate risk	Low risk	Low risk
Kondo et al ³⁵	Moderate risk	Low risk	Low risk	Low risk	Low risk	Low risk
Volpe et al ³⁶	Low risk risk	Low risk	Low risk	Low risk	Low risk	Low risk
Sukov et al ³⁷	Low risk	Low risk	Low risk	Moderate risk	Low risk	Moderate risk
Sameh et al ³⁸	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Ku et al ³⁹	Moderate risk	Low risk	Low risk	Low risk	Low risk	Low risk
Rodríguez et al ⁴⁰	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Poon et al ⁴¹	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Klatte et al ⁴²	Low risk	Low risk	Low risk	Moderate risk	Low risk	Low risk
Coons et al ⁴³	Low risk	Low risk	Low risk	Moderate risk	Low risk	Low risk
Kwak et al ⁴⁴	Low risk	Low risk	Low risk	Low risk	Low risk	Moderate risk
Lee et al ⁴⁵	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk
Sanchez et al ⁴⁶	Low risk	Low risk	Low risk	Low risk	Moderate risk	Low risk

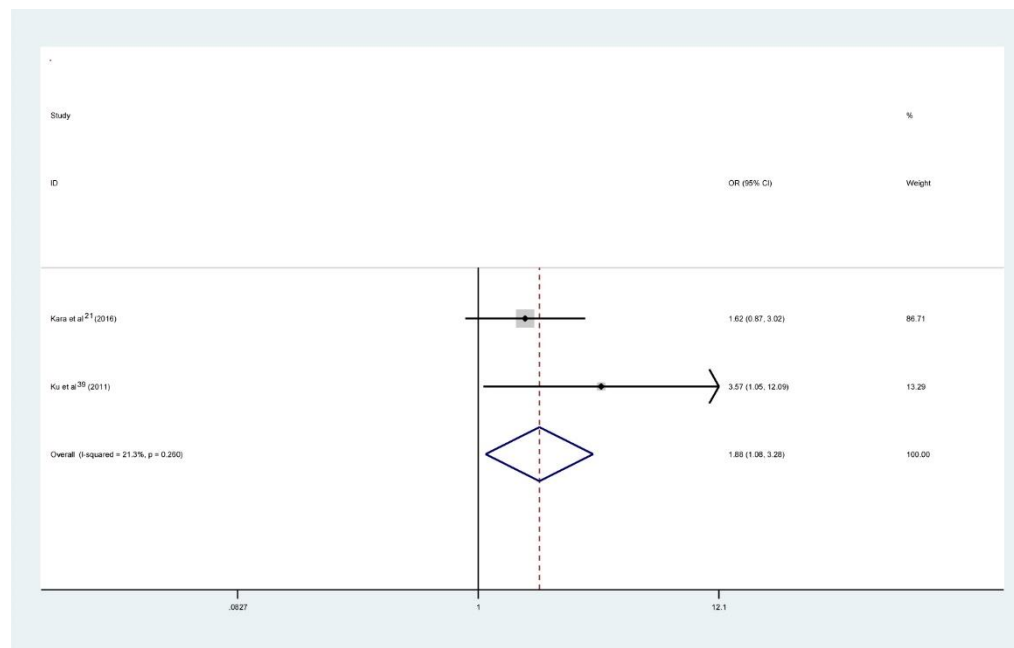
Supplementary Figure 1. Forest plots of the association between sarcomatoid differentiation and clinicopathological features of RCC: A) TNM stage, (B) Fuhrman grade, (C) lymph node involvement, (D) pathological types,(E) gender and (F) average age.



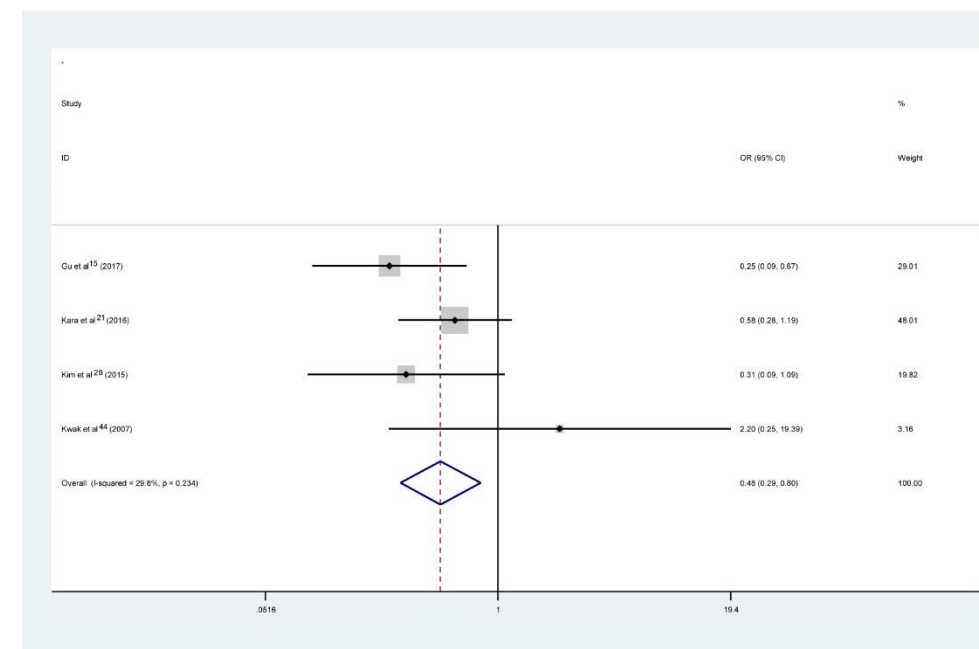
Supplementary Figure 1A



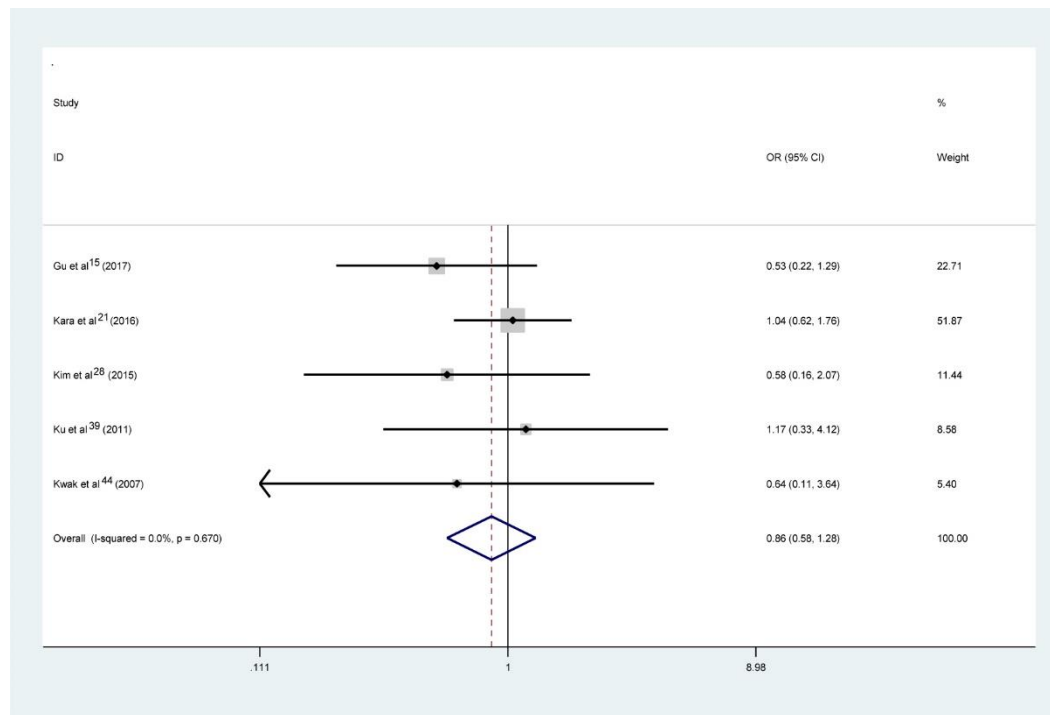
Supplementary Figure 1B



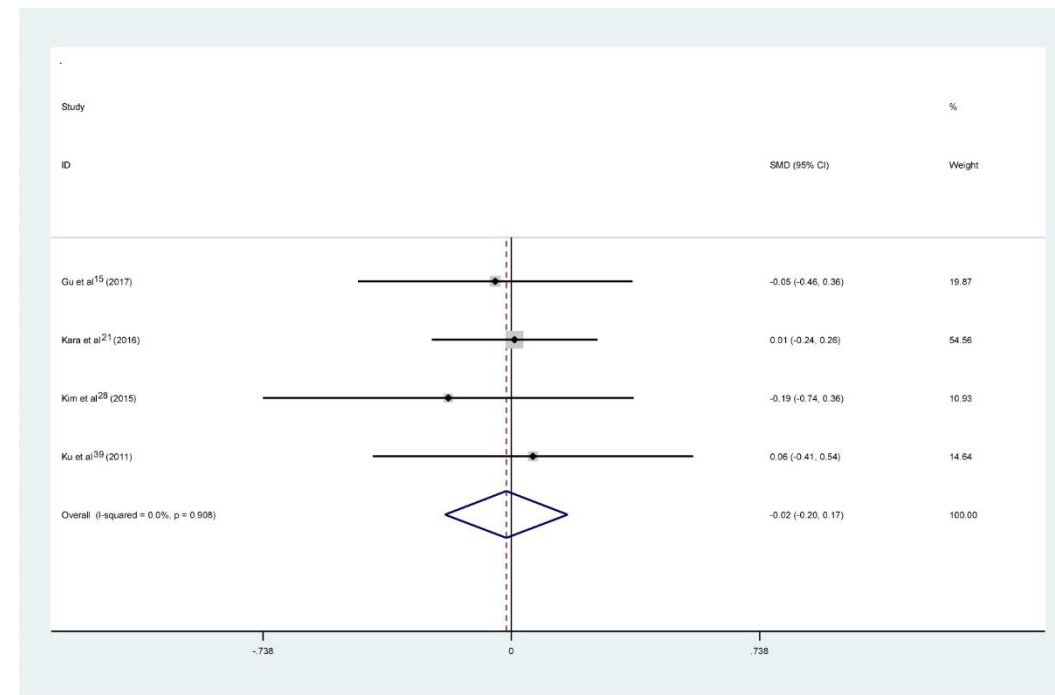
Supplementary Figure 1C



Supplementary Figure 1D

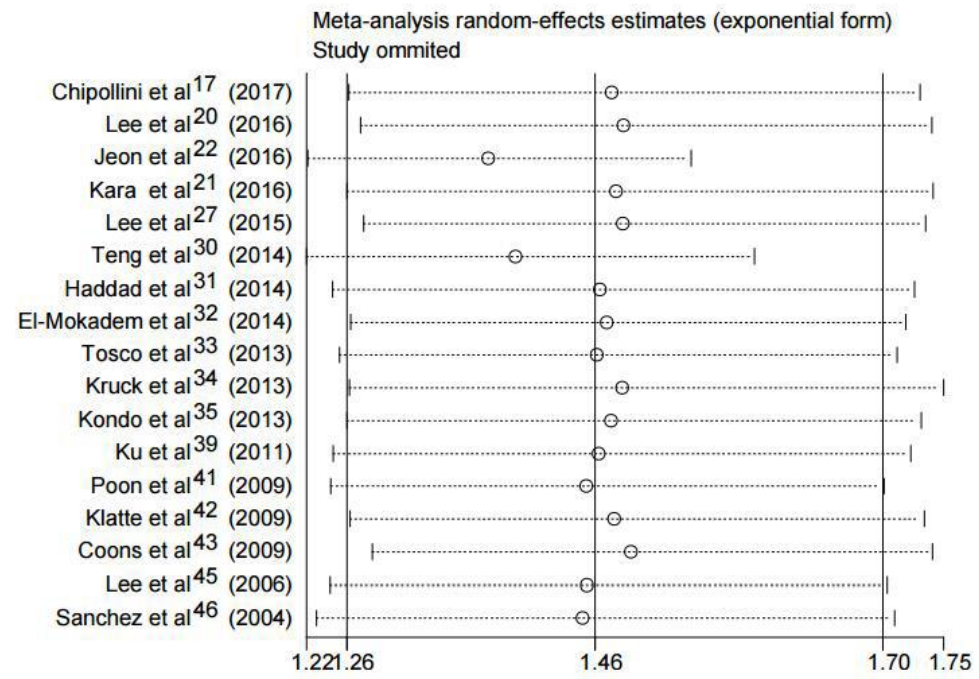


Supplementary Figure 1E

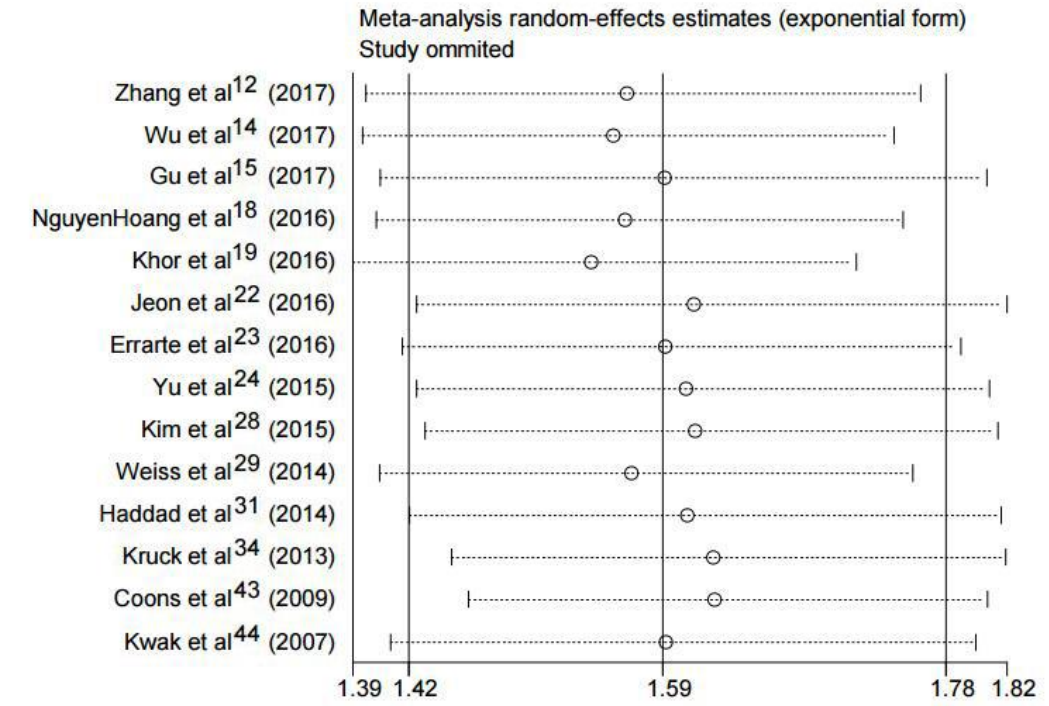


Supplementary Figure 1F

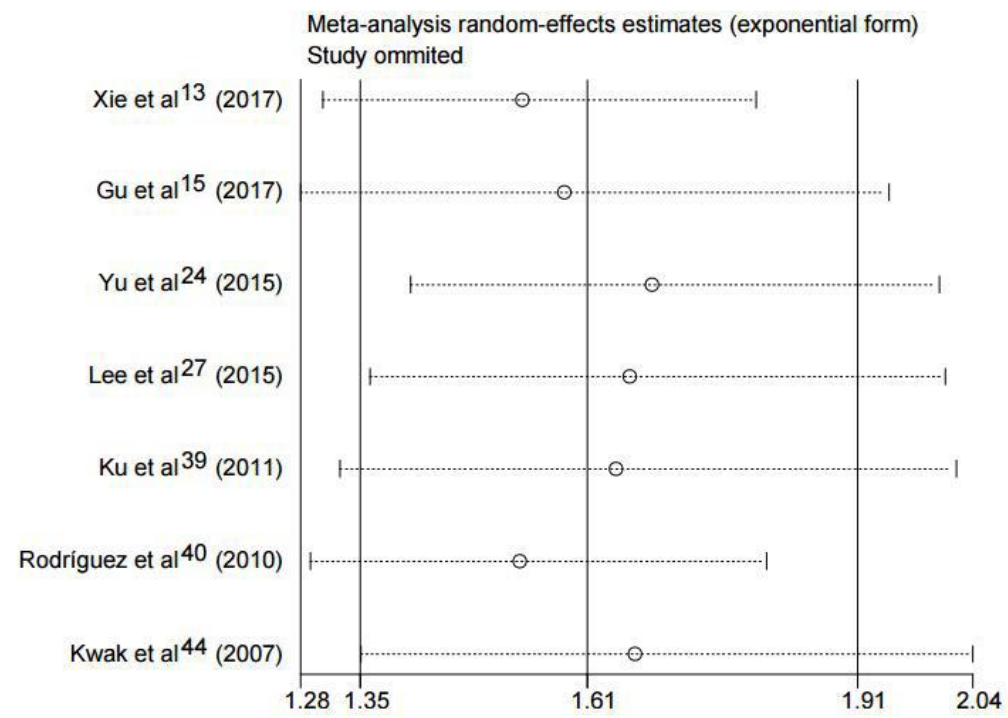
Supplementary Figure 2. Sensitivity analysis in this meta-analysis. (A) Sensitivity analysis for CSS; (B) Sensitivity analysis for OS; (C) Sensitivity analysis for PFS; (D) Sensitivity analysis for RFS; (E) Sensitivity analysis for CSM



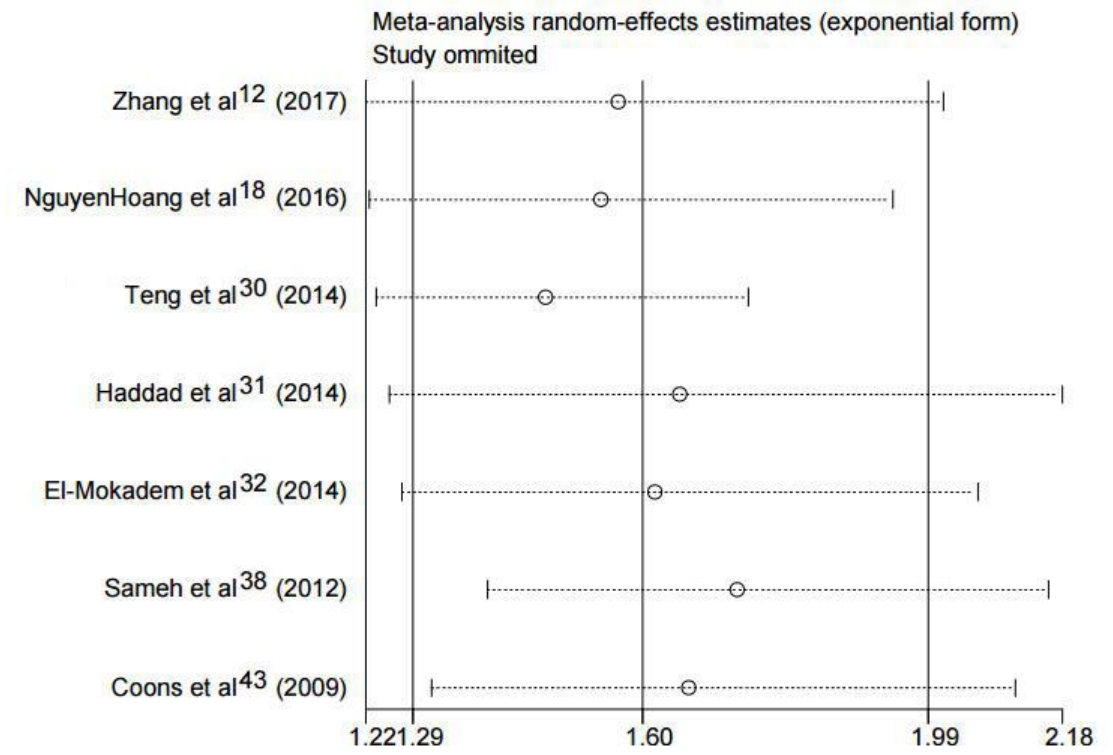
Supplementary Figure 2A



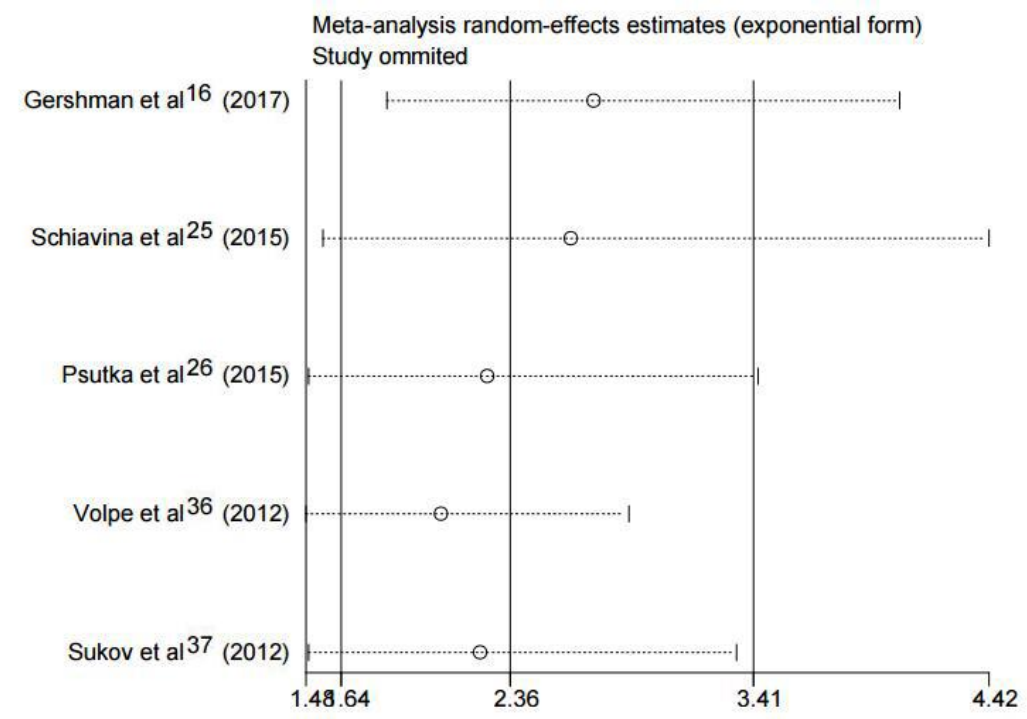
Supplementary Figure 2B



Supplementary Figure 2C



Supplementary Figure 2D



Supplementary Figure 2E