

## NEWCASTLE - OTTAWA QUALITY ASSESSMENT SCALE CASE CONTROL STUDIES

Note: A study can be awarded a maximum of one star for each numbered item within the Selection and Exposure categories. A maximum of two stars can be given for Comparability.

### Selection

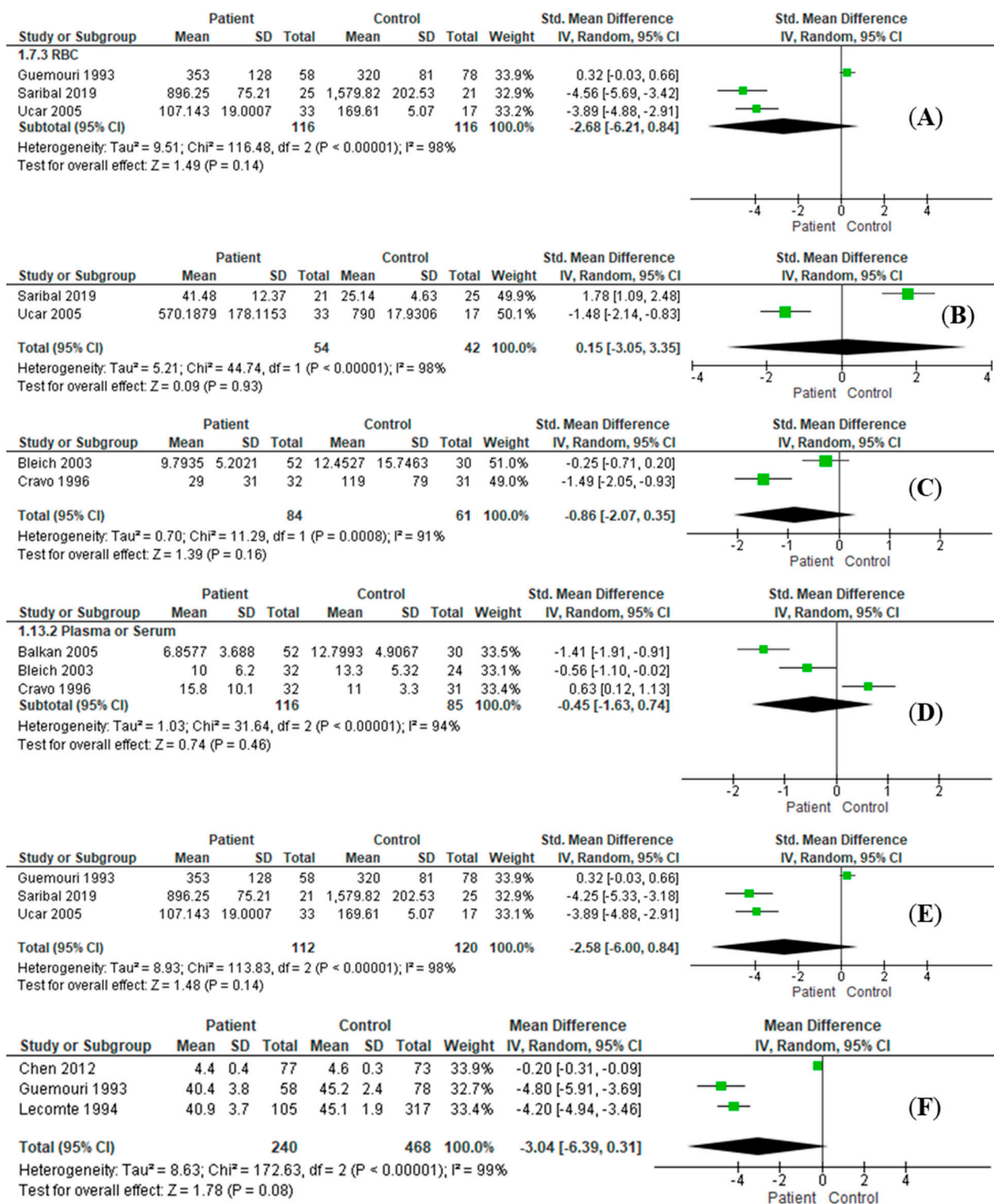
- 1) Is the case definition adequate?
  - a) yes, with independent validation
  - b) yes, e.g., record linkage or based on self reports
  - c) no description
- 2) Representativeness of the cases
  - a) consecutive or obviously representative series of cases
  - b) potential for selection biases or not stated
- 3) Selection of Controls
  - a) community controls
  - b) hospital controls
  - c) no description
- 4) Definition of Controls
  - a) no history of disease (endpoint)
  - b) no description of source

### Comparability

- 1) Comparability of cases and controls on the basis of the design or analysis
  - a) study controls for \_\_\_\_\_ Age \_\_\_\_\_ (Select the most important factor.)
  - b) study controls for any additional factor \_\_\_\_\_ Gender \_\_\_\_\_ (This criterion could be modified to indicate specific control for a second important factor.)

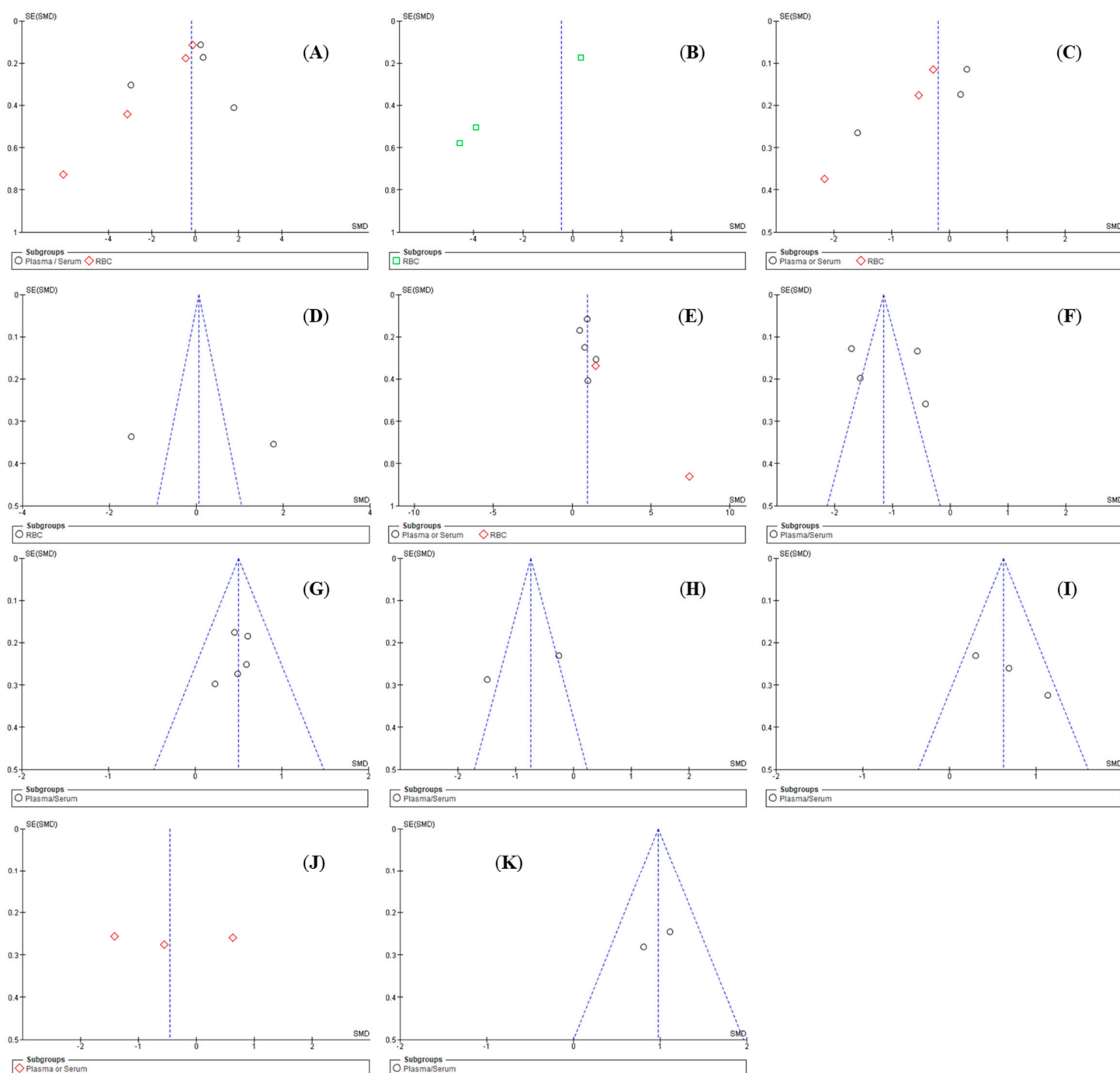
### Exposure

- 1) Ascertainment of exposure
  - a) secure record (e.g., surgical records)
  - b) structured interview where blind to case/control status
  - c) interview not blinded to case/control status
  - d) written self-report or medical record only
  - e) no description
- 2) Same method of ascertainment for cases and controls
  - a) yes
  - b) no
- 3) Non-Response rate
  - a) same rate for both groups
  - b) non respondents described
  - c) rate different and no designation

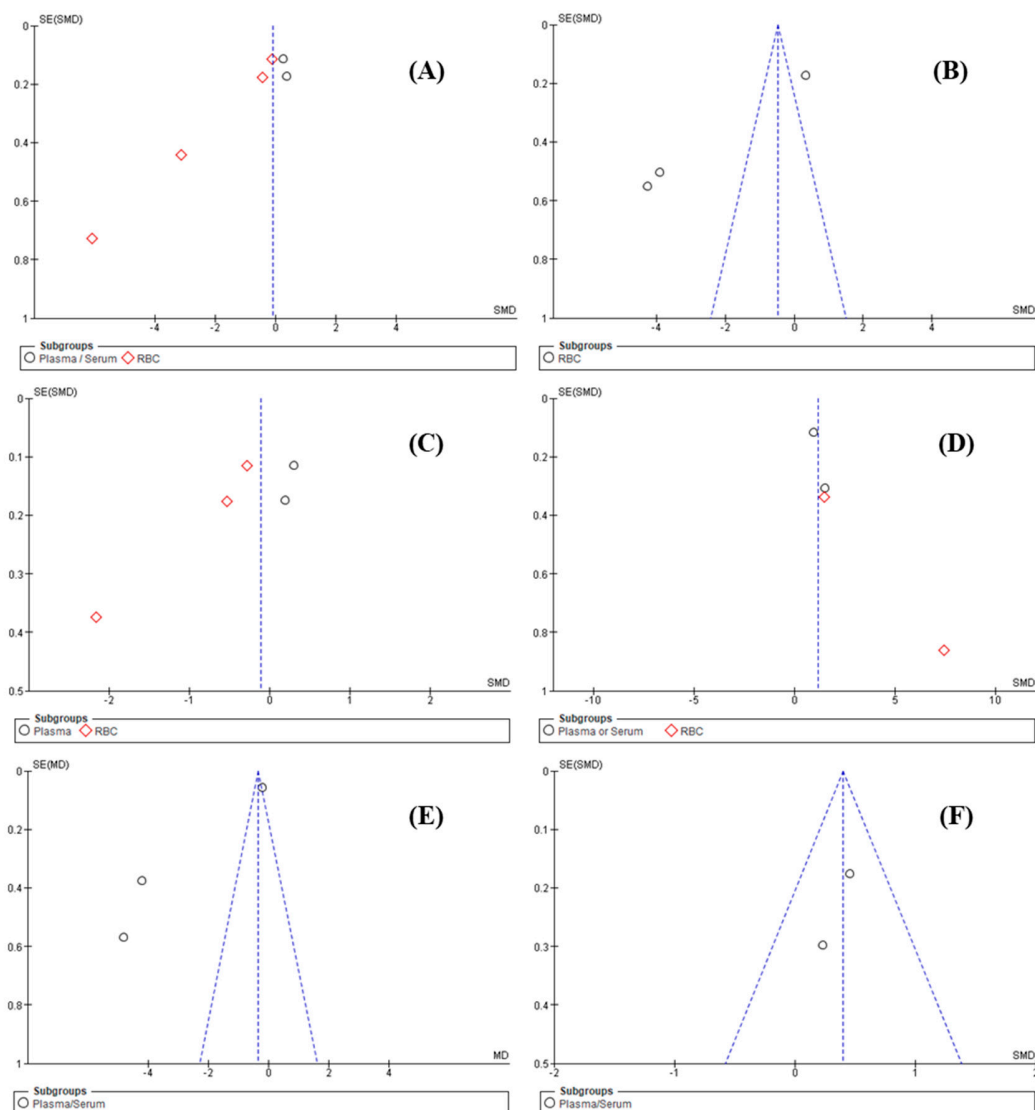


**Figure S1.** Comparing the levels of antioxidants of alcohol-dependent patients and healthy controls. There were no significant differences found in CAT activity (A) and GSH level (B) in RBC, or in B6 (C) and folic acid (D) in plasma/serum. In male, there were also no significant differences found in CAT activity (E) in RBC or albumin (F) in plasma/serum between alcohol-dependent patients and healthy

controls. B6, vitamin B6; CAT, catalase; CI, confidential interval; GSH, glutathione; RBC, red blood cells; SD, standard deviation.



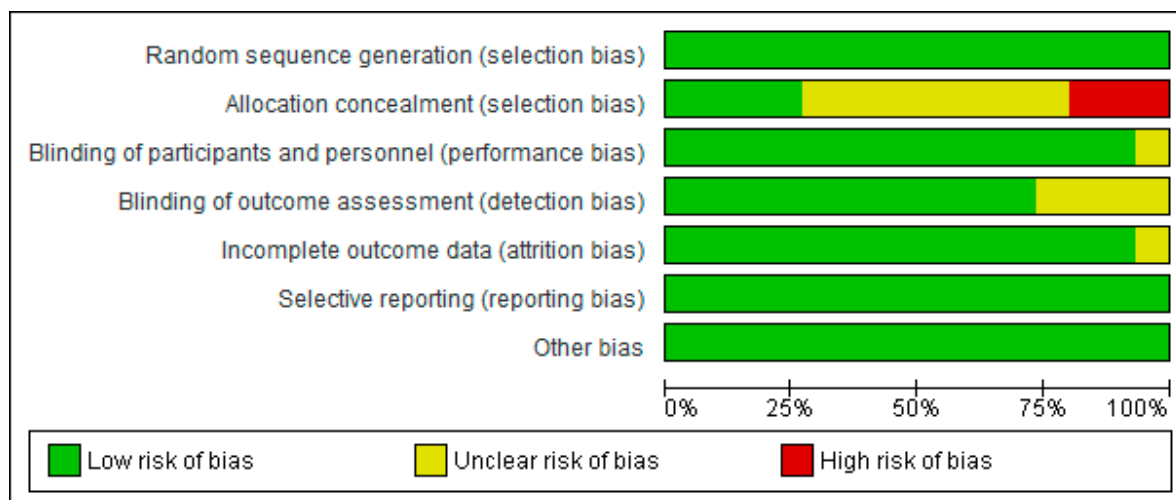
**Figure S2.** The funnel plot of antioxidants and prooxidants. (A) SOD; (B) CAT; (C) GPx; (D) GSH; (E) MDA; (F) albumin; (G) bilirubin; (H) B6; (I) B12; (J) folic acid; (K) homocysteine. B6, B12, vitamin B6, B12; CAT, catalase; GPx, glutathione peroxidase; GSH, glutathione; MDA, malondialdehyde; RBC, red blood cells; SE, standard error; SMD, standard mean difference; SOD, superoxide dismutase.



**Figure S3.** The funnel plot of antioxidants and prooxidants in male. (A) SOD; (B) CAT; (C) GPx; (D) MDA; (E) albumin; (F) bilirubin. CAT, catalase; GPx, glutathione peroxidase; MDA, malondialdehyde; RBC, red blood cells; SE, standard error; SMD, standard mean difference; SOD, superoxide dismutase.

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Balkan 2005	+	+	+	+	+	+	+
Bleich 2003	+	?	?	+	+	+	+
Chen 2011	+	+	+	+	+	+	+
Chen 2012	+	+	+	+	+	+	+
Cravo 1996	+	?	+	?	+	+	+
Fucile 2013	+	?	+	+	+	+	+
Guemouri 1993	+	?	+	+	+	+	+
Huang 2008	+	-	+	?	+	+	+
Huang 2009	+	-	+	?	+	+	+
Kapaki 2007	+	?	+	+	+	+	+
Lecomte 1994	+	+	+	+	?	+	+
Peng 2005	+	-	+	?	+	+	+
Saribal 2019	+	?	+	+	+	+	+
Thome 1997	+	?	+	+	+	+	+
Ucar 2005	+	?	+	+	+	+	+

**Figure S4.** Risk of bias summary: review authors' judgements about each risk of bias item for each included study.



**Figure S5.** Risk of bias graph: review authors' judgements about each risk of bias item presented as percentages across all included studies.