

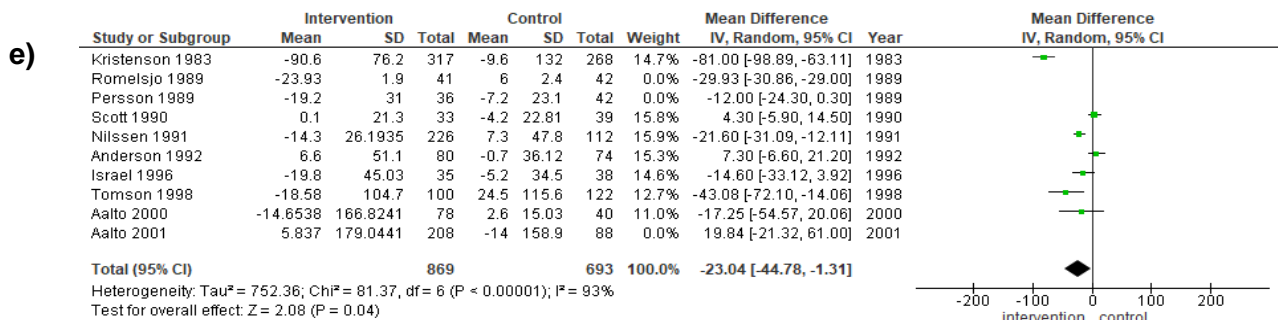
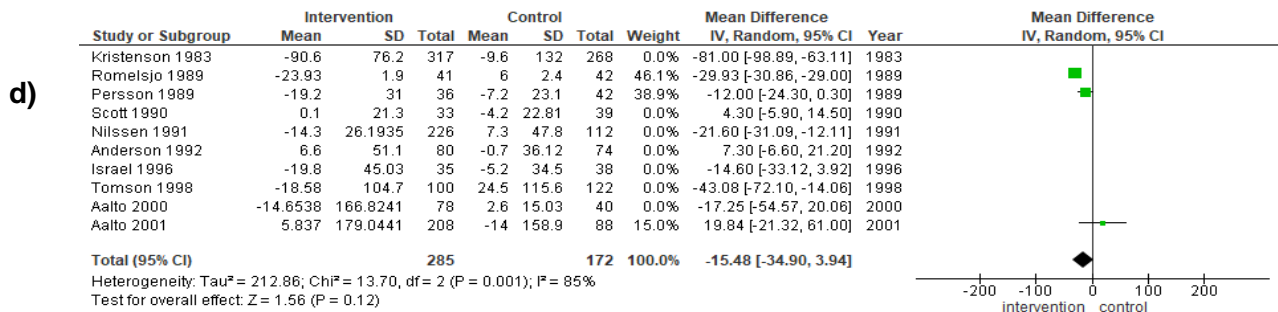
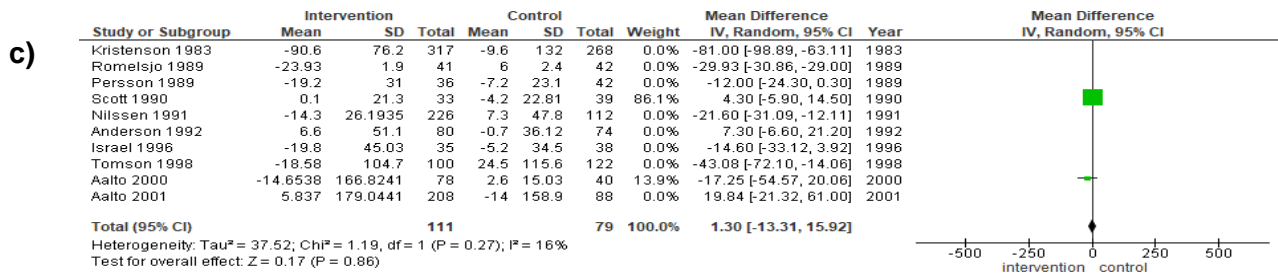
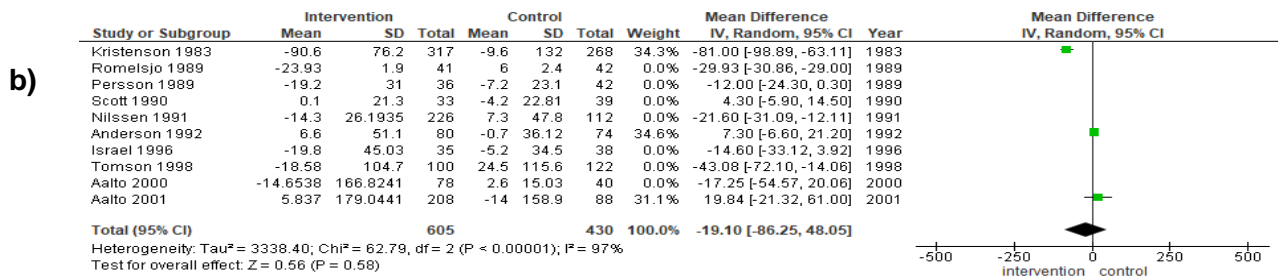
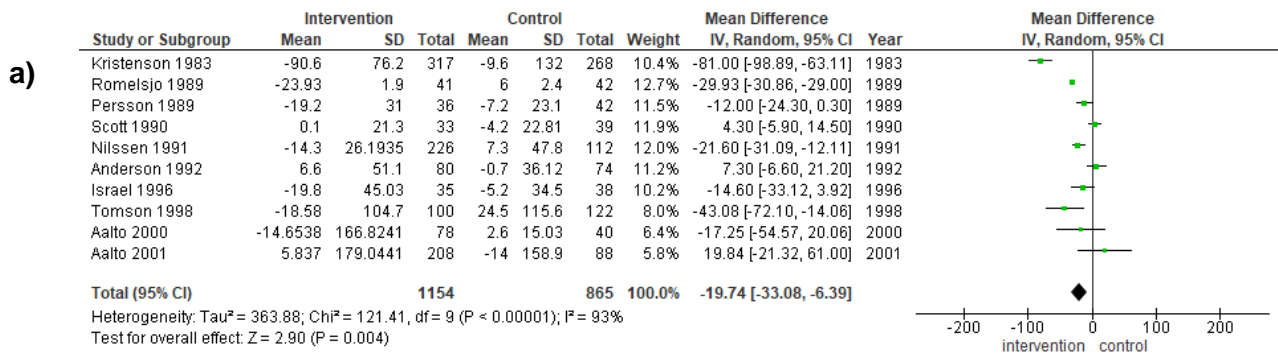
Info S1:

Detail search Strategy:

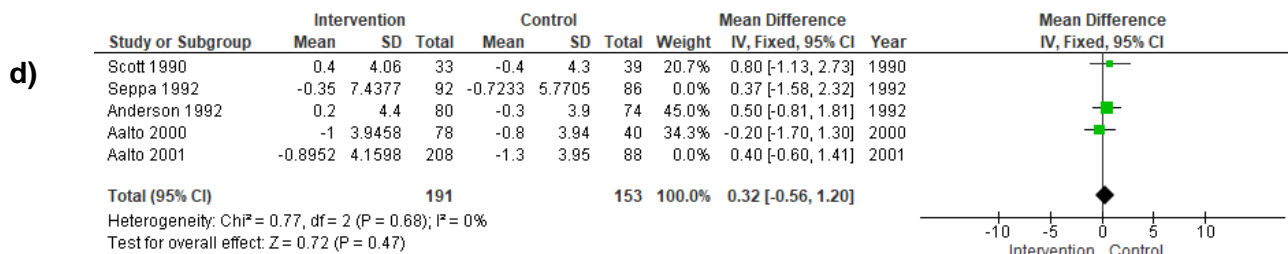
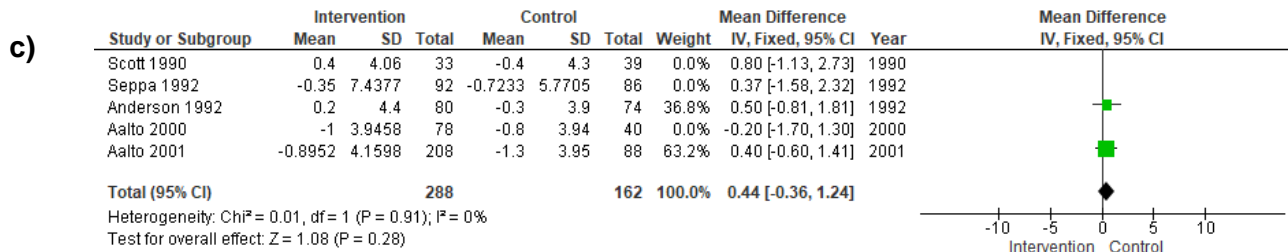
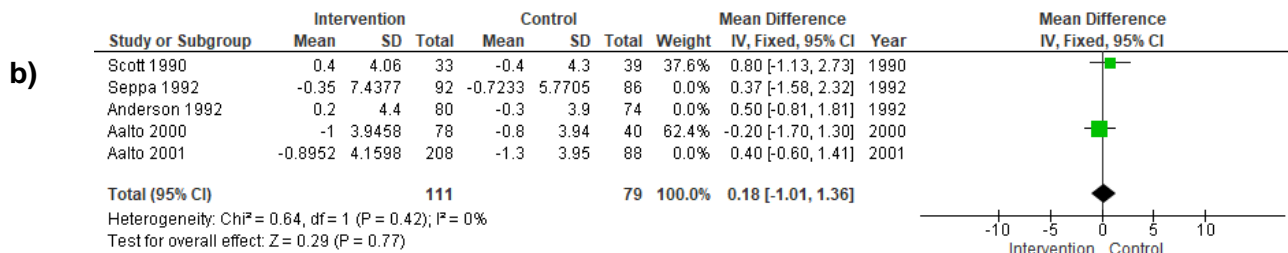
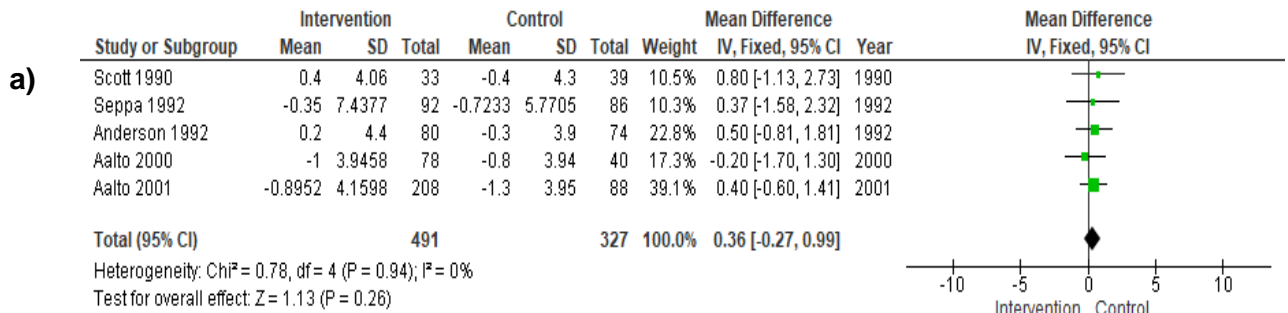
The search strategy was based on a population, intervention, comparator and outcome (PICO) model and a local expert librarian were consulted to support search strategy development. The final search strategy comprised of; “alcoholism”, or “alcoholic*”, or “alcoholic liver disease”, or “binge drinking”, or “alcohol intoxication”, or “alcohol related disorders”, or “alcohol misuse”, or “alcohol dependence”, or “alcohol abuse”, or “harmful drinking”, **and** “fibroscan”, or “fibro scan”, “fibrotest”, or “liver fibrosis scan”, or “transient elastography”, or “Elastography”, or “enhanced liver function test”, or “ELF markers”, or “liver function tests”, or “liver function\$”, or “Liver enzymes”, or “liver biomarkers”, or “liver tests”, **and** “counselling”, or “Advice”, or “brief advice”, or “simple advice”, or "alcohol identification and brief advice", or "patient education", or "Brief alcohol intervention*", "alcohol intervention*", or "motivational intervention", “advice.ab”, or “2brief adj2 advice”, or “brief adj2 intervention”, or “brief adj2 intervention*”, **and** “alcohol Abstinence”, or “reduction in alcohol use”, or “self-reported alcohol intake”, or “change in Behaviour”, or “Behavio?r”, or “Alcohol drinking behaviour”, or “Change in drinking”. We also searched Scopus for conferences proceedings, Ethos for grey literature and Clinicaltrials.gov for relevant clinical trials. Additionally, for included studies, a citation search was undertaken using Google Scholar and reference lists examined. The search was restricted to the English language.

Info S2:**Components of Data Extraction:**

The data was extracted on a predesigned data extraction form created by adopting the Cochrane collaboration data extraction form. The following details were extracted; author name and year of publication, study design, country and setting, sampling technique, method of recruitment, eligibility criteria, study duration, ethical approval, participants' demographics, sample size, baseline alcohol intake and laboratory parameters and if available alcohol use scores, type of advice given to intervention and control group, outcome measures, the key conclusion by author, and the study's strengths and limitations. Pre and post changes in self-reported alcohol intake and laboratory parameters were also collected. Where available, data on other outcomes (e.g. mortality and sickness days) were also extracted. Where information was missing the corresponding author of the study was contacted. Data on alcohol use was converted to gram/week of pure alcohol and for gamma-glutamyl transferase (GGT) to IU/Litre.



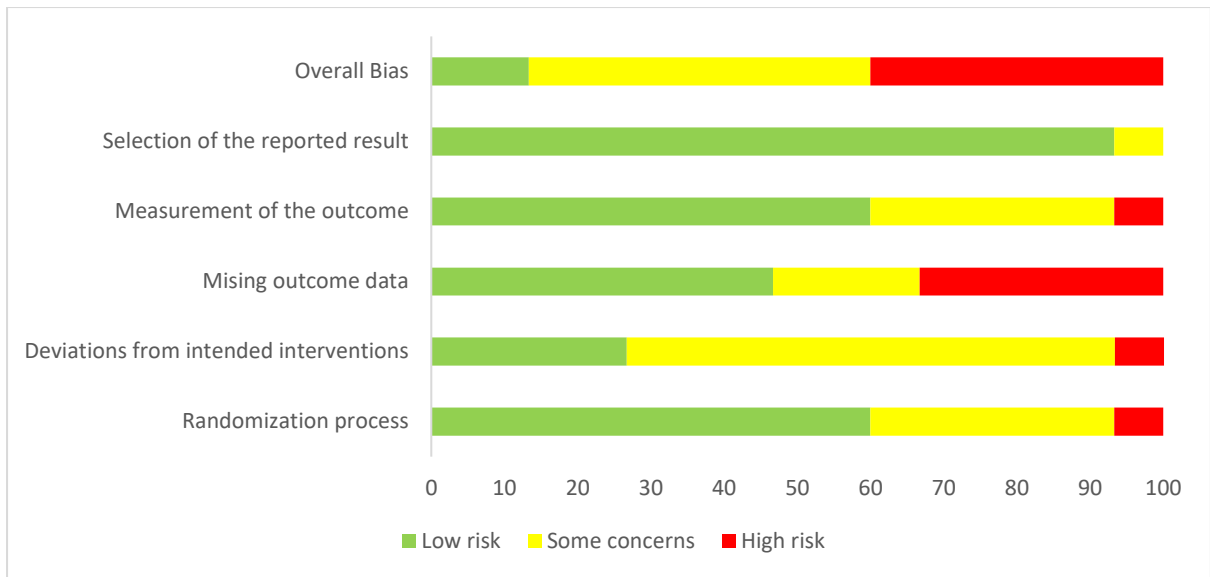
SF1: Change in GGT (IU/Litre) a) Intervention based advice versus Brief and Brief advice at request and no Advice b) Male only c) Female only d) alcohol intake <250 gram/week e) alcohol intake >250 gram/week



SF2: Change in MCV (femtoliters/cell) Fixed effect meta-analysis

a) Intervention based advice versus Brief and Brief advice at request and no Advice b)

Female only c) Male only d) alcohol intake >250 gram/week



Study ID	Experimental	Comparator	Outcome	Weight	Randomization process	Deviations from intended interventions	Missing outcome data	Measurement of the outcome	Selection of the reported result	Overall
Kahler 2018	Intervention	Control	Alcohol Use	1	+	?	+	+	+	!
Nilssen 2004	Intervention	Control	Alcohol Use & GGT	1	?	?	+	+	+	!
Kristenson 1981/3	Intervention	Control	Change In GGT	1	?	?	?	+	+	!
Aalto 2001	Intervention	Control	Alcohol Use & GGT	1	?	+	+	+	+	!
Gentilello 1999	Intervention	Control	Alcohol Use	1	+	+	-	+	+	-
Romelsjo 1989	Intervention	Control	Alcohol Use & GGT	1	+	-	?	?	+	-
Poika 1988	Intervention	Control	Alcohol Use & GGT	1	?	?	-	?	+	-
Israel 1996	Intervention	Advice	Alcohol Use & GGT	1	+	?	+	+	+	!
Persson 1989	Intervention	Control	Alcohol Use & GGT	1	+	+	?	?	+	!
Tomson 1998	Intervention	Control	Alcohol Use & GGT	1	+	+	-	?	+	-
Scott 1990	Intervention	Control	Alcohol Use & GGT	1	+	?	+	+	+	+
Anderson 1992	Intervention	Control	Alcohol Use & GGT	1	+	?	+	+	+	+
Aalto 2000	Intervention	Control	Alcohol Use & GGT	1	+	?	+	+	+	!
Nilsson 1991	Intervention	Control	Alcohol Use & GGT	1	-	?	-	?	?	-
Seppa 1992	Intervention	Control	Alcohol Use	1	+	?	-	-	+	-

SF3: Risk of Bias and Quality assessment for Randomised control studies (Rob 2)