

NKR 13 Alkoholbehandling. Disulfiram for alcohol dependency**Review information****Authors**Sundhedsstyrelsen¹¹[Empty affiliation]

Citation example: S. NKR 13 Alkoholbehandling. Disulfiram for alcohol dependency. Cochrane Database of Systematic Reviews [Year], Issue [Issue].

Characteristics of studies**Characteristics of included studies****Chick 1992**

Methods	RCT
Participants	outpatients who had relapsed from earlier treatment
Interventions	supervised disulfiram and counselling
Outcomes	
Notes	funded by Fisons Pic Pharma division

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	not described
Allocation concealment (selection bias)	Low risk	applied by pharmacist at participating centres
Blinding of participants and personnel (performance bias)	High risk	not blinded
Blinding of outcome assessment (detection bias)	Low risk	assessor blinded
Incomplete outcome data (attrition bias)	High risk	about 1/3 stopped treatment in both groups
Selective reporting (reporting bias)	Low risk	not detected
Other bias	Low risk	not detected

Fuller 1986

Methods	RCT
Participants	men younger than 60 years presenting for alcohol treatment, excluded if living alone
Interventions	disulfiram and counselling
Outcomes	
Notes	USA, NA, propably VA programme

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	High risk	randomisation list likely open
Allocation concealment (selection bias)	High risk	numbered envelopes not described as opaque
Blinding of participants and personnel (performance bias)	Low risk	blinded, tablets of identical type
Blinding of outcome assessment (detection bias)	Low risk	blinded
Incomplete outcome data (attrition bias)	Low risk	only 28 out of 202 did not complete 1 year follow-up
Selective reporting (reporting bias)	Low risk	not detected
Other bias	Low risk	not detected

Gerrein 1973

Methods	RCT
Participants	alcoholics in an outpatient clinic
Interventions	disulfiram supervised plus counselling
Outcomes	
Notes	Fisons Plc Pharma division

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	not decribed
Allocation concealment (selection bias)	Low risk	applied by pharmacist in attending centres
Blinding of participants and personnel (performance bias)	High risk	not blinded
Blinding of outcome assessment (detection bias)	Low risk	assessor blinded
Incomplete outcome data (attrition bias)	High risk	about 1/3 dropped out
Selective reporting (reporting bias)	Low risk	not detected
Other bias	Low risk	not detected

Ulrichsen 2010

Methods	RCT
Participants	patinets admitted for withdrawal treatment
Interventions	supervised disulfiram + kognitive therapy
Outcomes	
Notes	Denmark, foundation for the advancement of science

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	secretary instructed to arrange envelopes in random order
Allocation concealment (selection bias)	Unclear risk	sealed envelopes not described as opaque
Blinding of participants and personnel (performance bias)	High risk	not blinded
Blinding of outcome assessment (detection bias)	High risk	not blinded
Incomplete outcome data (attrition bias)	Low risk	low number of drop-outs
Selective reporting (reporting bias)	Low risk	none detected
Other bias	Low risk	none detected

Footnotes

Characteristics of excluded studies

DeSousa 2014

Reason for exclusion	Wrong study design
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Donoghue 2015

Reason for exclusion	Wrong study design
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Venkata 2017

Reason for exclusion	Wrong study design
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Yoshimura 2014

Reason for exclusion	Wrong intervention
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Footnotes

Characteristics of studies awaiting classification

Footnotes

Characteristics of ongoing studies

Footnotes

References to studies

Included studies

Chick 1992

[Empty]

Fuller 1986

[Empty]

Gerrein 1973

[Empty]

Ulrichsen 2010

[Empty]

Excluded studies**DeSousa 2014**

De Sousa, A.. A comparative study using Disulfiram and Naltrexone in alcohol-dependent adolescents.. Journal of Substance Use 2014;19(5):341-345. [DOI:]

Donoghue 2015

Donoghue, Kim; Elzerbi, Catherine; Saunders, Rob; Whittington, Craig; Pilling, Stephen; Drummond, Colin. The efficacy of acamprosate and naltrexone in the treatment of alcohol dependence, Europe versus the rest of the world: a meta-analysis. Addiction 2015;110(6):920-930. [DOI:]

Venkata 2017

Venkata K.V.; Chhoda A.; Halanych J.H.; Singal, A.. Pharmacological treatment of alcohol abstinence: A systematic review and network meta-analysis.. Gastroenterology 2017;Conference(Journal Article):geste. [DOI:]

Yoshimura 2014

Yoshimura, Atsushi; Kimura, Mitsuru; Nakayama, Hisakazu; Matsui, Toshifumi; Okudaira, Fukiko; Akazawa, Shigeru; Ohkawara, Masao; Cho, Tetsuji; Kono, Yoshihiro; Hashimoto, Koji; Kumagai, Masayuki; Sahashi, Yukiko; Roh, Sungwon; Higuchi, Susumu. Efficacy of disulfiram for the treatment of alcohol dependence assessed with a multicenter randomized controlled trial.. Alcoholism: Clinical & Experimental Research 2014;38(2):572-578. [DOI:]

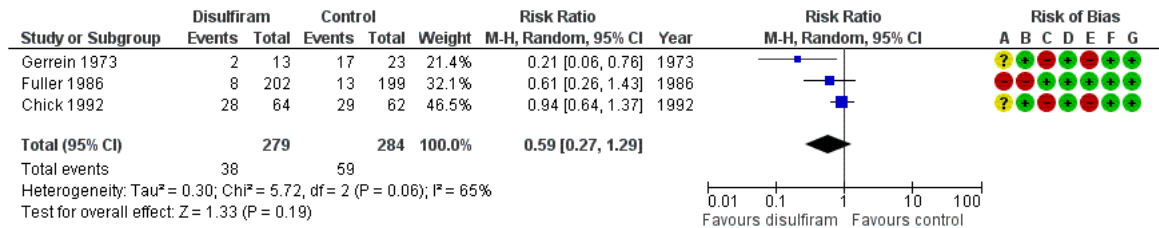
Data and analyses**1 Disulfiram vs control post treatment**

Outcome or Subgroup	Studies	Participants	Statistical Method	Effect Estimate
1.1 All cause drop-out	3	563	Risk Ratio (M-H, Random, 95% CI)	0.59 [0.27, 1.29]
1.3 Number of patients abstinent 6-12 month from baseline	1	401	Risk Ratio (M-H, Random, 95% CI)	1.17 [0.76, 1.79]
1.4 Number of days abstinent after 6 month treatment (Final)	1	39	Mean Difference (IV, Random, 95% CI)	0.00 [-46.76, 46.76]
1.5 Number of days abstinent in last 6 month (change)	1	93	Mean Difference (IV, Random, 95% CI)	-31.00 [-58.85, -3.15]
1.6 Number of patients abstinent 3 month after baseline	0	0	Odds Ratio (M-H, Fixed, 95% CI)	Not estimable
1.7 Remaining abstinent at 8 weeks EoT	1	36	Risk Ratio (M-H, Random, 95% CI)	4.42 [0.99, 19.67]
1.8 Number of patients abstinent 6-12 month FU	0	0	Odds Ratio (M-H, Fixed, 95% CI)	Not estimable
1.9 Time to first drink (days)	2	440	Mean Difference (IV, Random, 95% CI)	2.42 [-28.48, 33.31]
1.10 Drinks pr week after 6 month of treatment (Change)	1	97	Mean Difference (IV, Random, 95% CI)	-57.00 [-120.63, 6.63]

1.11 Drinks pr drinkings day 6-12 months FU	0	0	Std. Mean Difference (IV, Random, 95% CI)	Not estimable
1.12 Serious adverts events	2	165	Risk Ratio (M-H, Random, 95% CI)	0.32 [0.01, 7.78]
1.13 Drop out due to adverse events	2	165	Risk Ratio (M-H, Random, 95% CI)	3.88 [0.45, 33.71]
1.14 Adverse events - diarrhea	0	0	Risk Ratio (M-H, Random, 95% CI)	Not estimable
1.15 Adverts Events - nausea	1	126	Risk Ratio (M-H, Random, 95% CI)	0.97 [0.14, 6.66]

Figures

Figure 1 (Analysis 1.1)

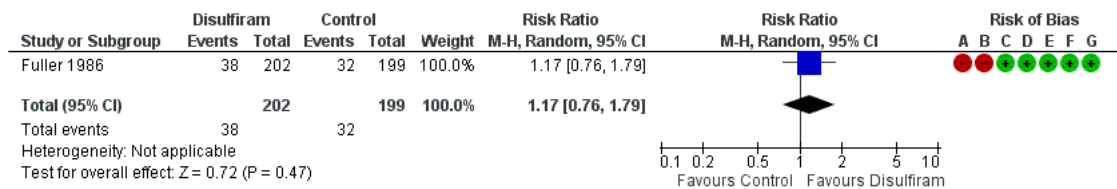


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.1 All cause drop-out.

Figure 2 (Analysis 1.3)

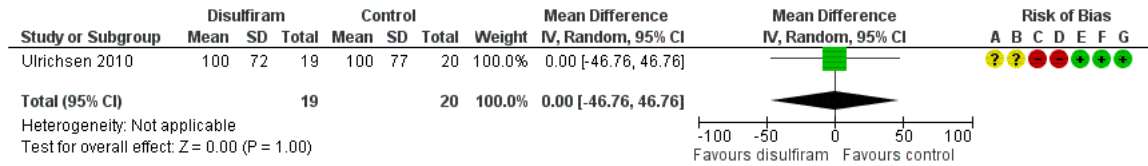


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.3 Number of patients abstinent 6-12 month from baseline.

Figure 3 (Analysis 1.4)

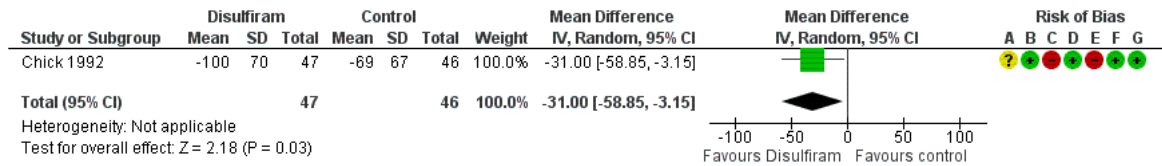


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.4 Number of days abstinent after 6 month treatment (Final).

Figure 4 (Analysis 1.5)

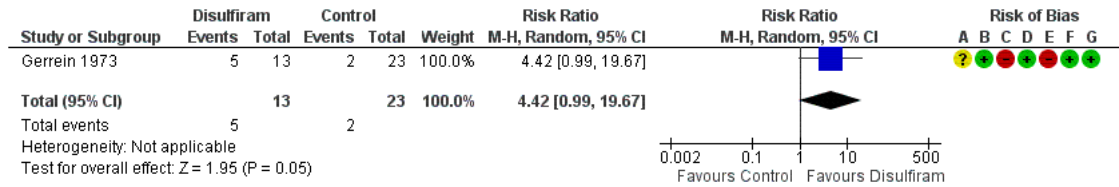


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.5 Number of days abstinent in last 6 month (change).

Figure 5 (Analysis 1.7)

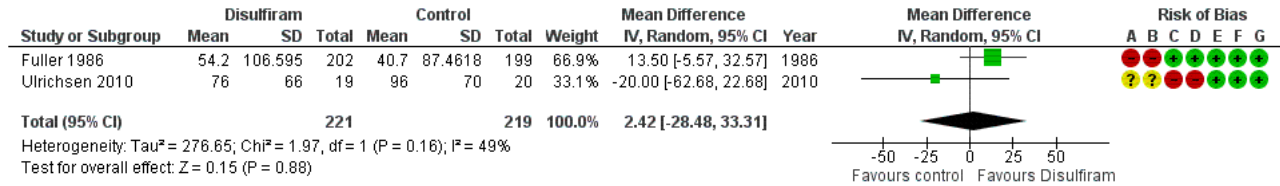


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.7 Remaining abstinent at 8 weeks EoT.

Figure 6 (Analysis 1.9)

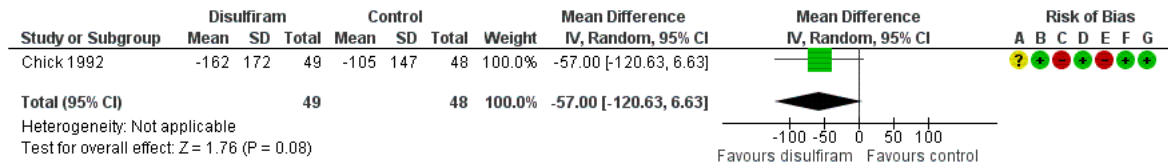


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.9 Time to first drink (days).

Figure 7 (Analysis 1.10)

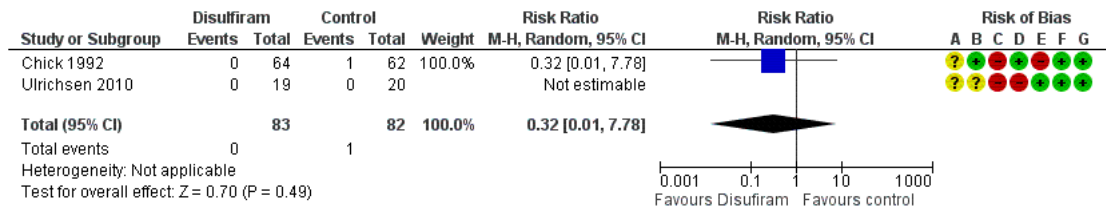


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.10 Drinks pr week after 6 month of treatment (Change).

Figure 8 (Analysis 1.12)

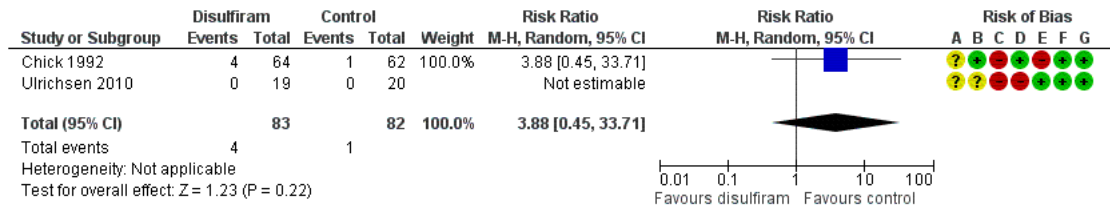


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.12 Serious adverts events.

Figure 9 (Analysis 1.13)

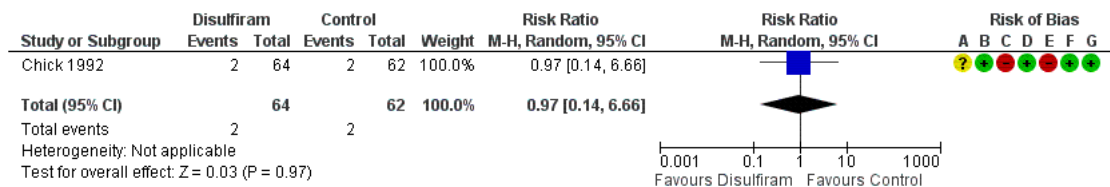


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.13 Drop out due to adverse events.

Figure 10 (Analysis 1.15)



Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Disulfiram vs control post treatment, outcome: 1.15 Adverts Events - nausea.

Figure 11



	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
Chick 1992	?	+	-	+	-	+	+
Fuller 1986	-	-	+	+	+	+	+
Gerrein 1973	?	+	-	+	-	+	+
Ulrichsen 2010	?	?	-	-	+	+	+

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