

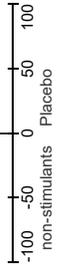
1 Non-Stimulant vs. placebo

1.1 ADHD-symptoms (critical)

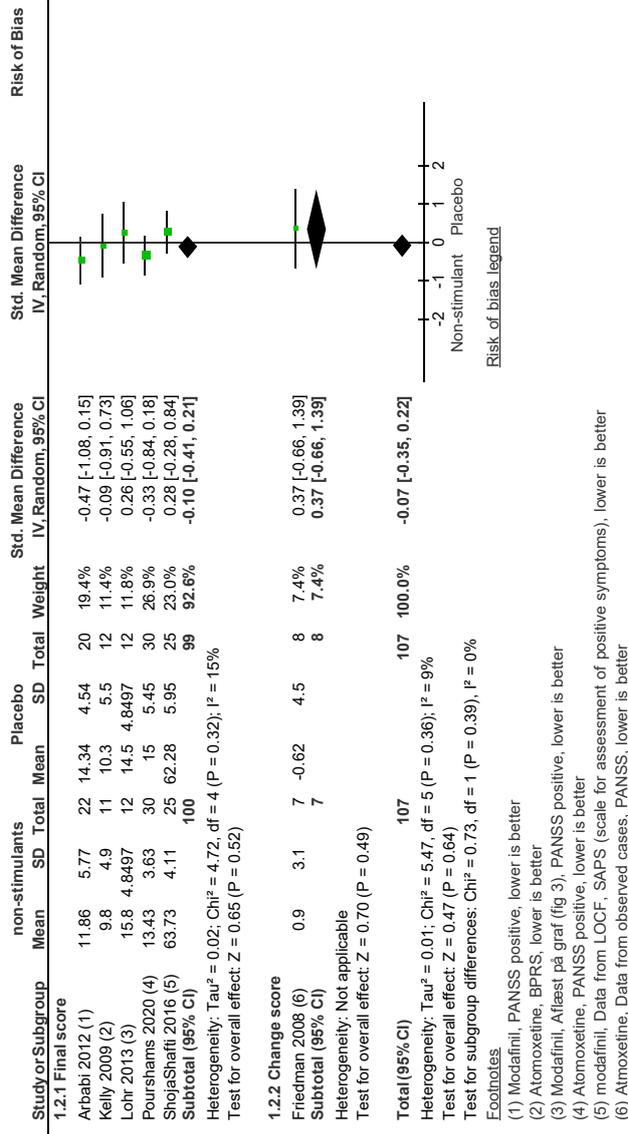
Study or Subgroup	non-stimulants		Placebo		Total	Weight	Mean Difference IV, Random, 95% CI	Risk of Bias
	Mean	SD	Mean	SD				
Total (95% CI)	0		0		0		Not estimable	

Heterogeneity: Not applicable
 Test for overall effect: Not applicable

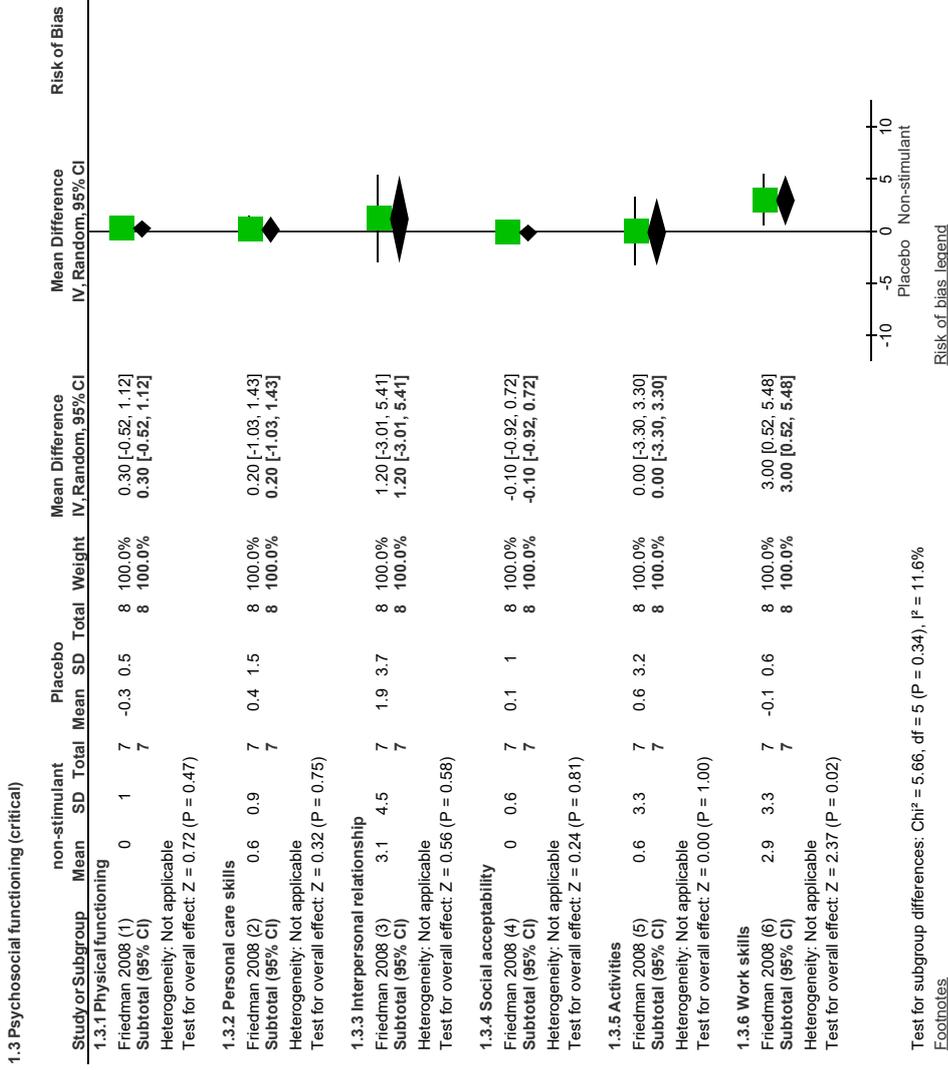
Risk of bias legend



1.2 Psychotic symptoms (critical)

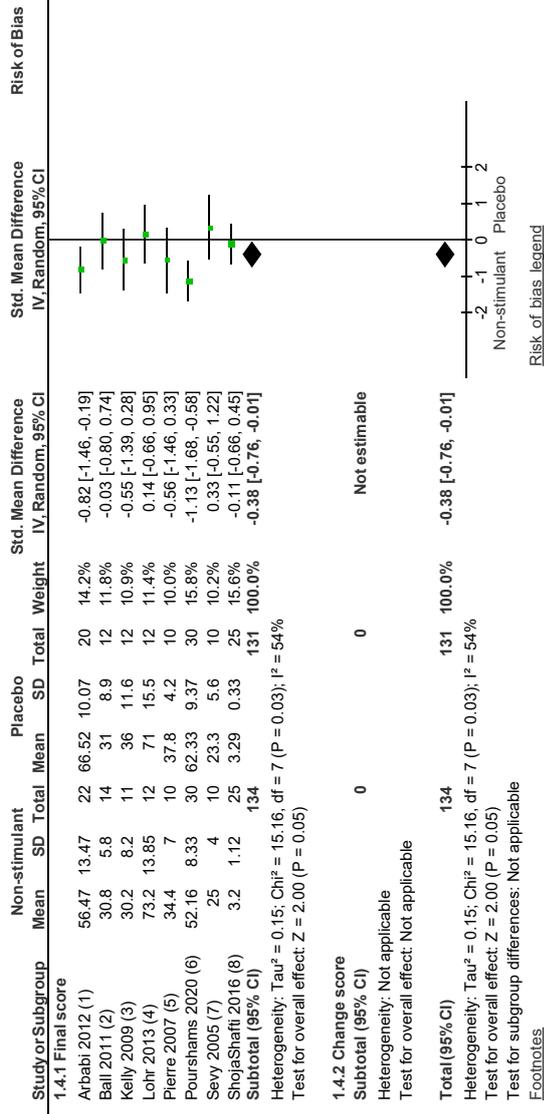


Footnotes:
 (1) Modafinil, PANSS positive, lower is better
 (2) Atomoxetine, BPRS, lower is better
 (3) Modafinil, Afæst på graf (fig 3), PANSS positive, lower is better
 (4) Atomoxetine, PANSS positive, lower is better
 (5) modafinil, Data from LOCF. SAPS (scale for assessment of positive symptoms), lower is better
 (6) Atomoxetine, Data from observed cases, PANSS, lower is better

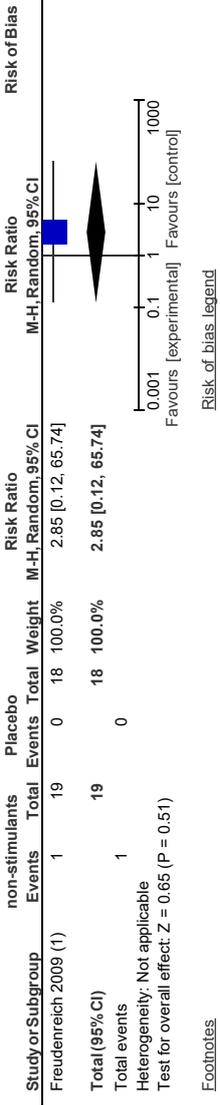


Footnotes
 (1) Atomoxetine, changes score (observed cases), SLOF, higher is better
 (2) atomoxetine, changes scores (observed cases), SLOF, higher is better
 (3) atomoxetine, changes scores (observed cases), SLOF, higher is better
 (4) atomoxetine, changes scores (observed cases), SLOF, higher is better
 (5) atomoxetine, changes scores (observed cases), SLOF, higher is better
 (6) atomoxetine, changes scores (observed cases), SLOF, higher is better

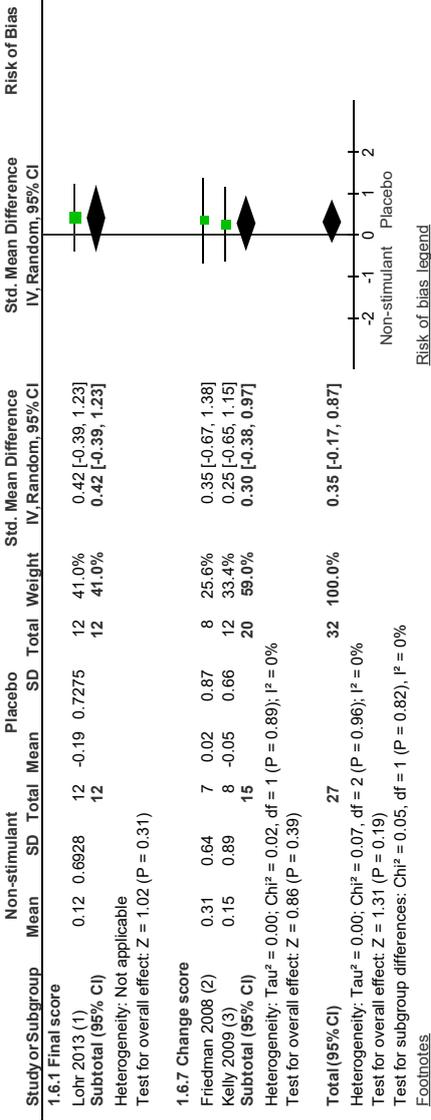
1.4 Global symptoms/functioning (important)



1.5 Psychiatric hospitalization

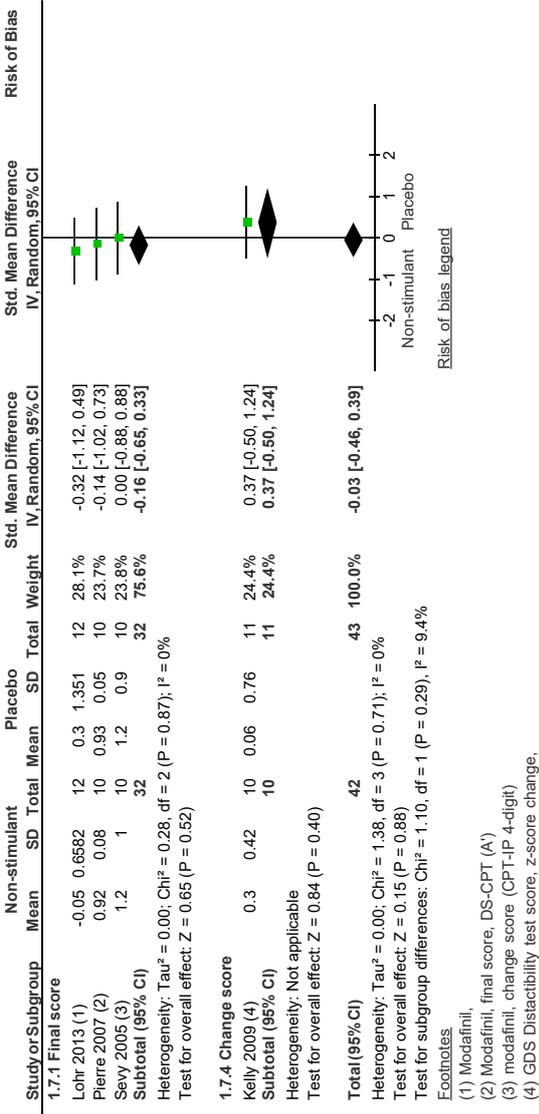


1.6 Executive functions (important)

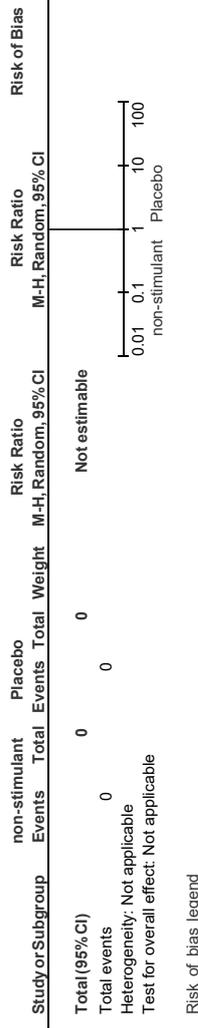


Footnotes:
 (1) Modafinil, NP-composite executive,
 (2) Atomoxetine, Tower of London, change score,
 (3) Woodcock-Johnson planning test, z-score change

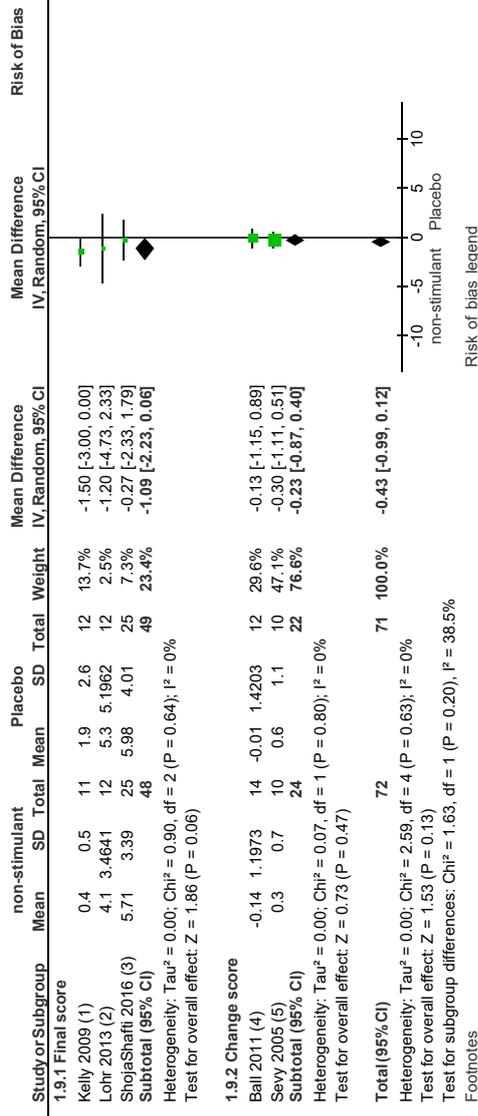
1.7 Attention (important)



1.8 Extrapyramidal side effects (important)

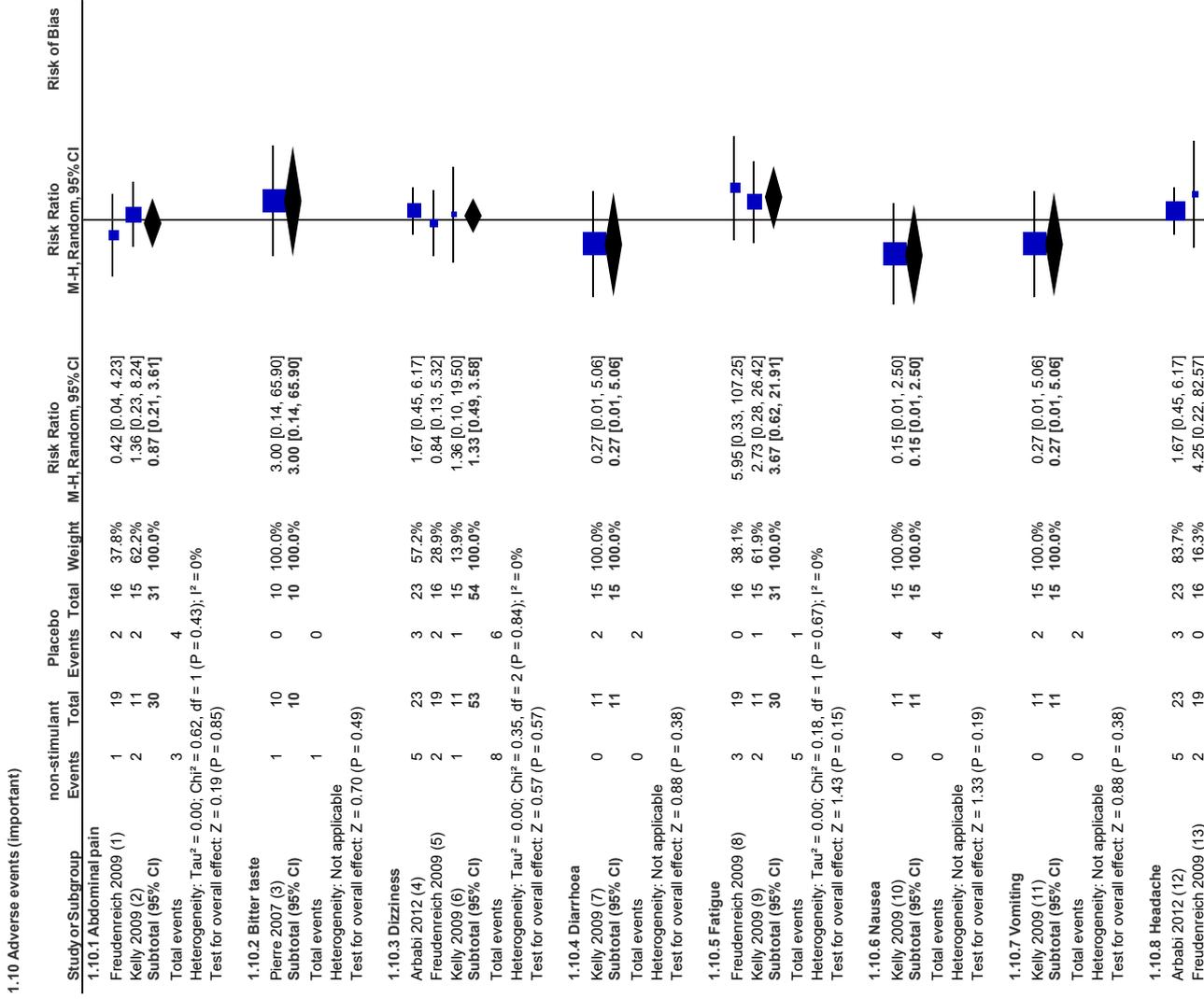


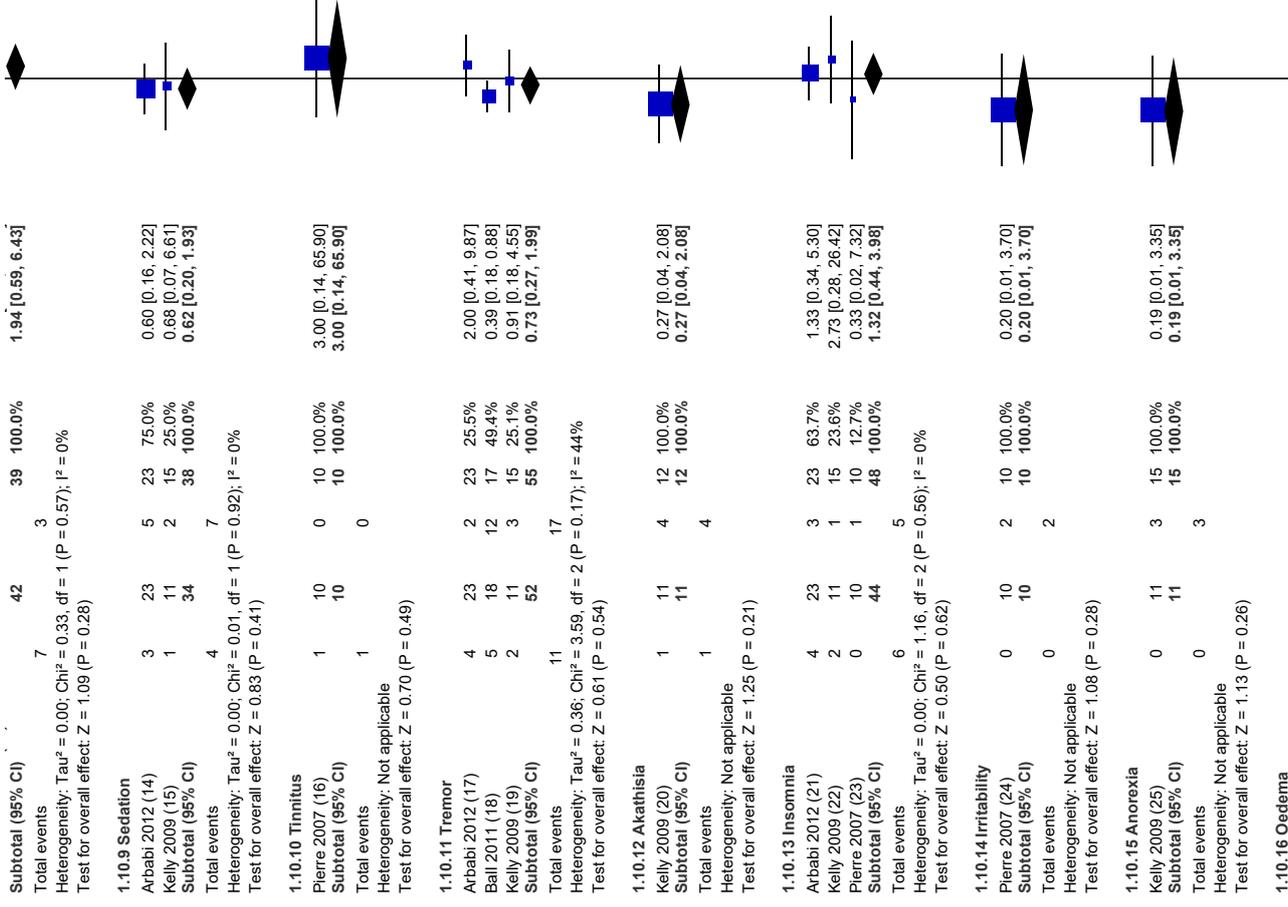
1.9 Extrapryramidal side effects (important)

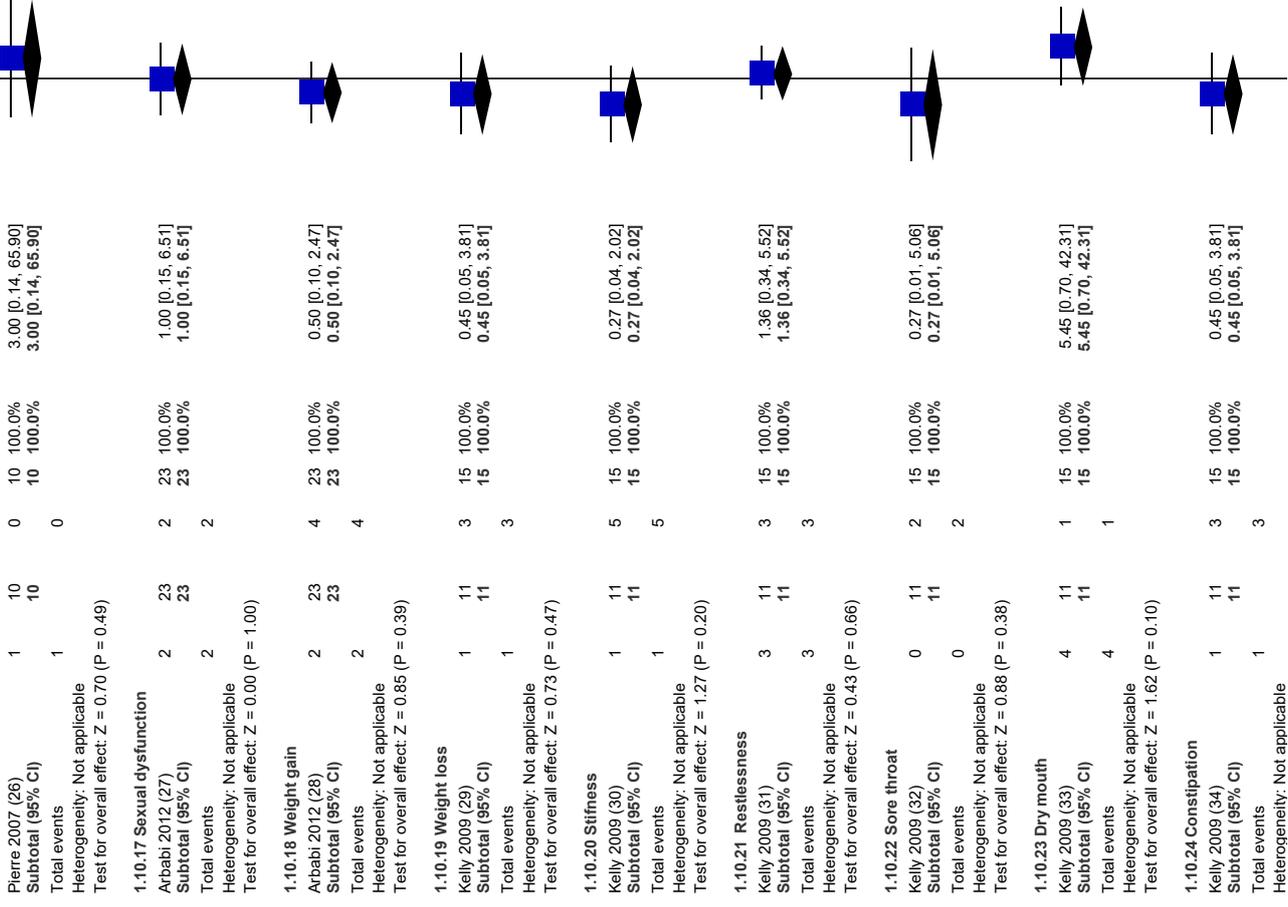


Footnotes

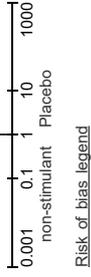
- (1) atomoxetine, Simpson Angus Scale, Lower is better
- (2) Modafinil, SAS, aflæst på fig 2 day-56, final score, lower is better
- (3) Modafinil, Simpson Angus Scale, final score, lower is better
- (4) atomoxetine, Simpson Angus Extrapryramidal symptoms Scale, umiddelbart change score
- (5) Modafinil, Modified Simpson Angus Scale, change







1-10.34 Euphoric mood			
Subtotal (95% CI)	0	0	0
Total events	0	0	0
Heterogeneity: Not applicable			
Test for overall effect: Not applicable			
1-10.35 Psychotic disorders			
Subtotal (95% CI)	0	0	Not estimable
Total events	0	0	0
Heterogeneity: Not applicable			
Test for overall effect: Not applicable			



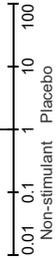
Test for subgroup differences: Chi² = 21.77, df = 27 (P = 0.75), I² = 0%

Footnotes

- (1) Modafinil
- (2) atomoxetine
- (3) Modafinil
- (4) Modafinil
- (5) Modafinil
- (6) atomoxetine
- (7) atomoxetine
- (8) modafinil
- (9) atomoxetine
- (10) atomoxetine
- (11) atomoxetine
- (12) Modafinil
- (13) Modafinil
- (14) Modafinil
- (15) atomoxetine
- (16) Modafinil
- (17) Modafinil
- (18) atomoxetine
- (19) atomoxetine
- (20) atomoxetine
- (21) Modafinil
- (22) atomoxetine
- (23) Modafinil
- (24) Modafinil
- (25) atomoxetine
- (26) Modafinil
- (27) Modafinil
- (28) Modafinil
- (29) atomoxetine
- (30) atomoxetine
- (31) atomoxetine
- (32) atomoxetine
- (33) atomoxetine
- (34) atomoxetine
- (35) atomoxetine
- (36) atomoxetine
- (37) Modafinil
- (38) atomoxetine
- (39) atomoxetine

1.11 Suicidal behavior (important)

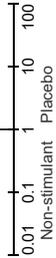
Study or Subgroup	Non-stimulant		Placebo		Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI	Risk of Bias
	Events	Total	Events	Total					
Total (95% CI)	0	0	0	0	0	0	Not estimable		
Total events	0	0	0	0	0				
Heterogeneity: Not applicable									
Test for overall effect: Not applicable									



Risk of bias legend

1.12 Substance use (important)

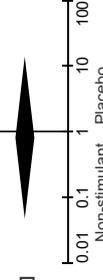
Study or Subgroup	Non-stimulant		Placebo		Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI	Risk of Bias
	Events	Total	Events	Total					
Total (95% CI)	0	0	0	0	0	0	Not estimable		
Total events	0	0	0	0	0				
Heterogeneity: Not applicable									
Test for overall effect: Not applicable									



Risk of bias legend

1.13 Post hoc: Serious adverse events

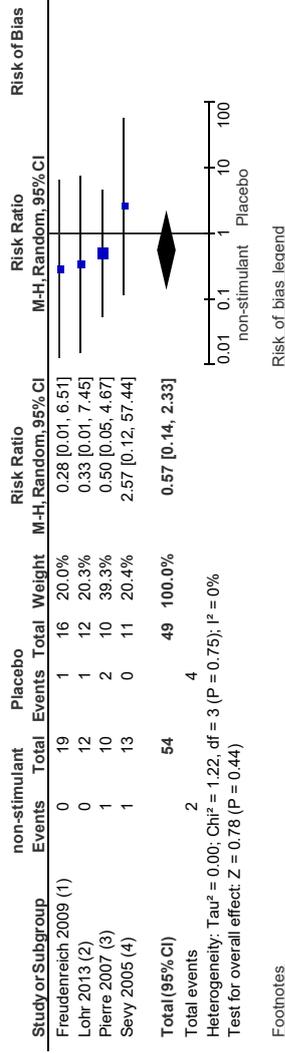
Study or Subgroup	Non-stimulant		Placebo		Total	Weight	Odds Ratio M-H, Random, 95% CI	Odds Ratio M-H, Random, 95% CI	Risk of Bias
	Events	Total	Events	Total					
Freudenreich 2009 (1)	1	19	1	16	100.0%	0.83 [0.05, 14.48]	0.83 [0.05, 14.48]		
Total (95% CI)	1	19	1	16	100.0%	0.83 [0.05, 14.48]	0.83 [0.05, 14.48]		
Total events	1	1	1	1					
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.13 (P = 0.90)									



Footnotes

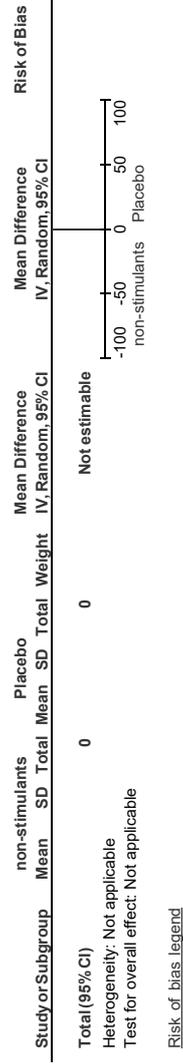
(1) Modafinil

1.14 Post hoc: worsening psychosis

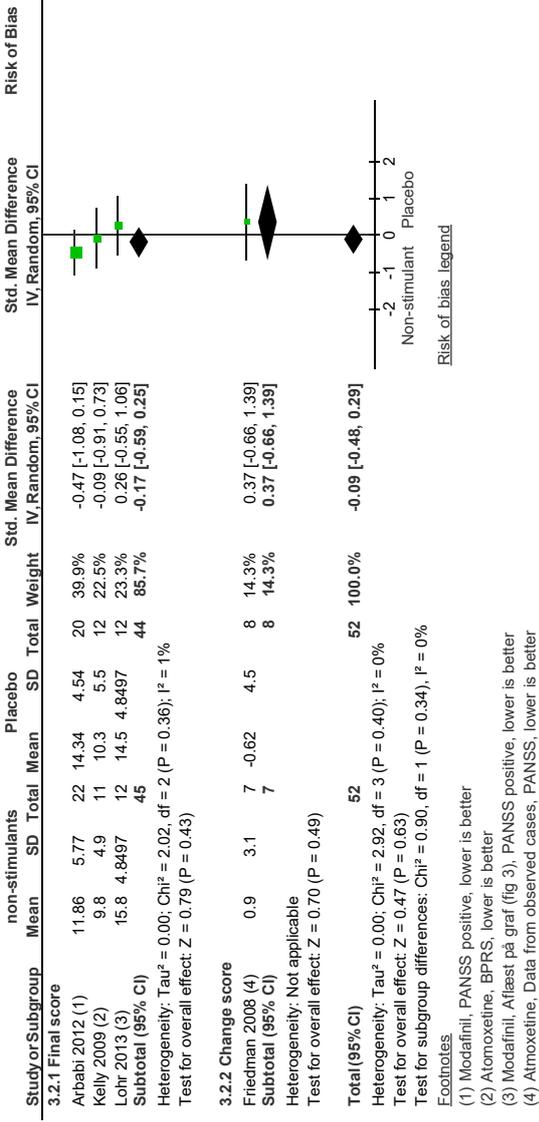


3 Sensitivitsanalyse: Non-Stimulant vs. placebo

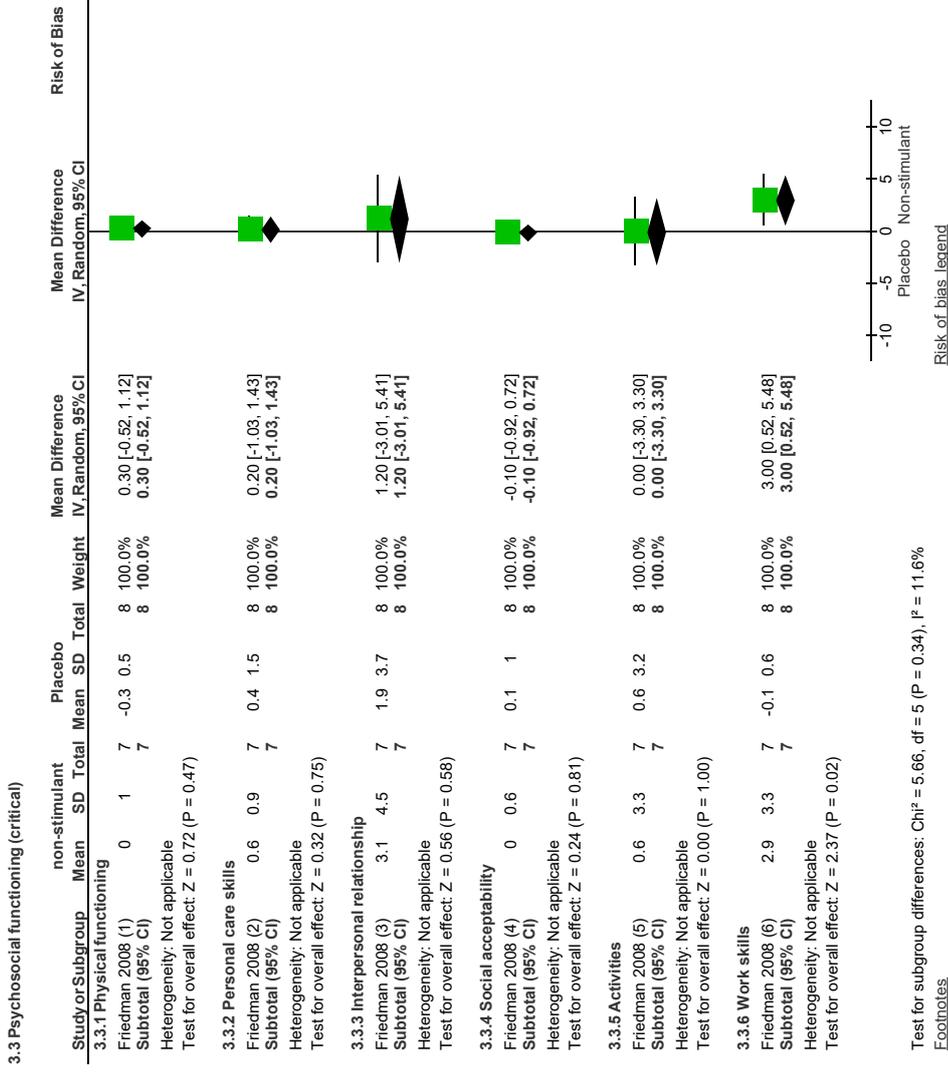
3.1 ADHD-symptoms (critical)



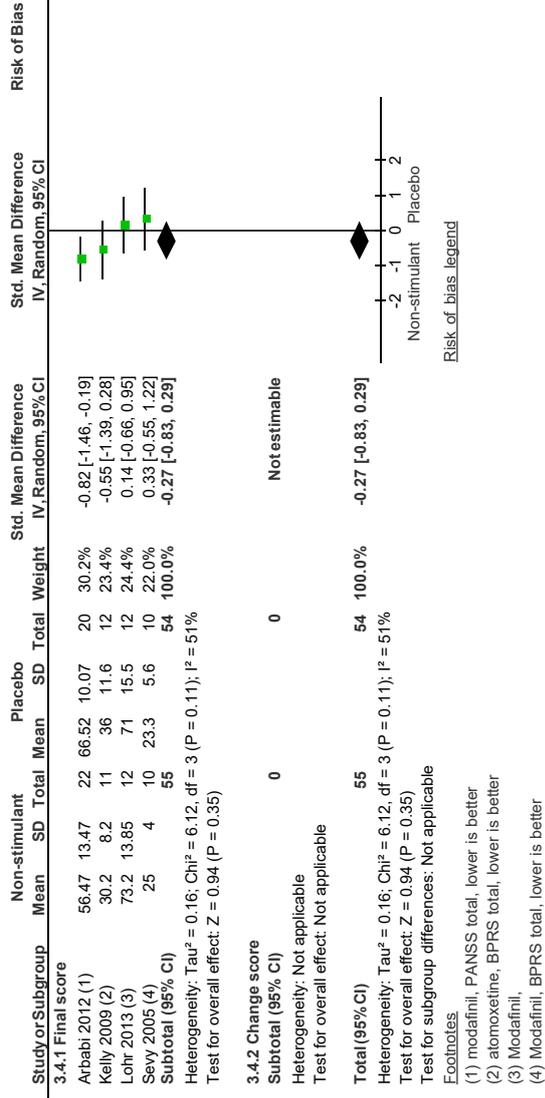
3.2 Psychotic symptoms (critical)



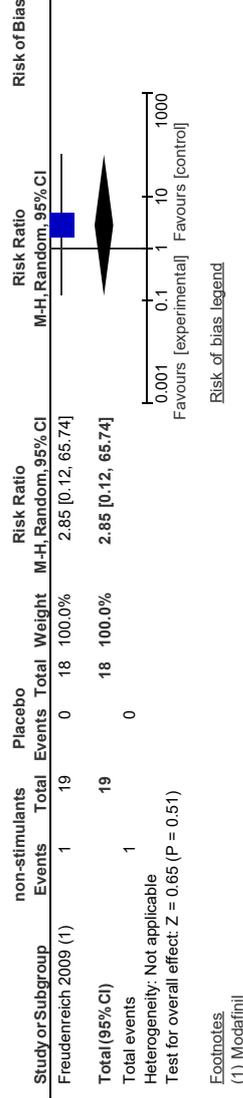
Footnotes
 (1) Modafinil, PANSS positive, lower is better
 (2) Atomoxetine, BPRS, lower is better
 (3) Modafinil, Aflaest på graf (fig 3), PANSS positive, lower is better
 (4) Atomoxetine, Data from observed cases, PANSS, lower is better



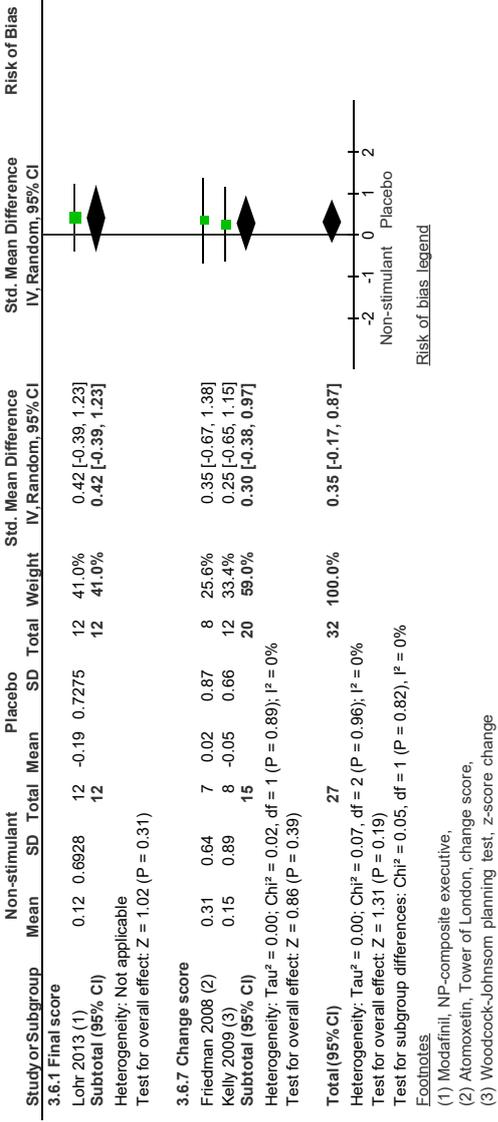
3.4 Globally symptoms/functioning (important)



3.5 Psychiatric hospitalization

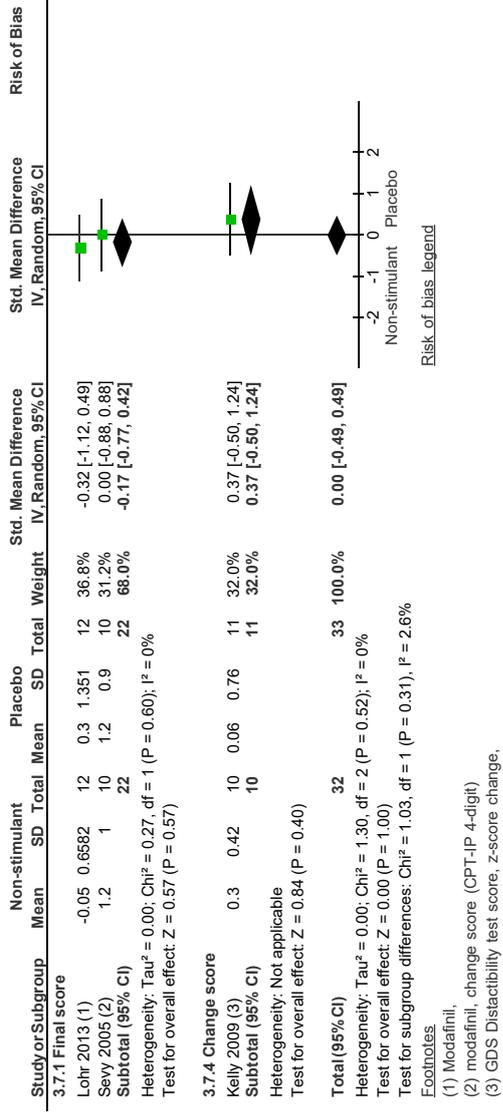


3.6 Executive functions (important)



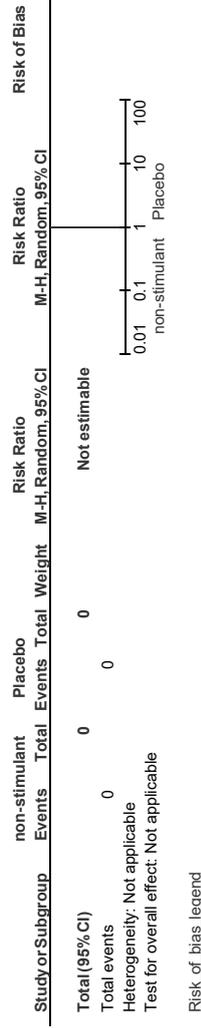
(1) Modafinil, NP-composite executive,
 (2) Atomoxetine, Tower of London, change score,
 (3) Woodcock-Johnson planning test, z-score change

3.7 Attention (important)



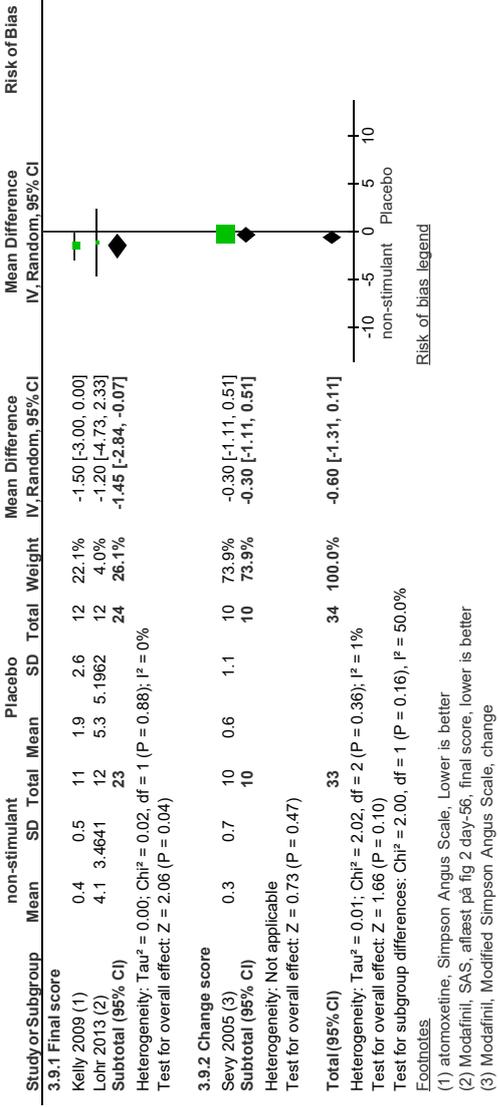
(1) Modafinil.
(2) modafinil, change score (CPT-IP 4-digit)
(3) GDS Distactibility test score, z-score change.

3.8 Extrapyramidal side effects (important)

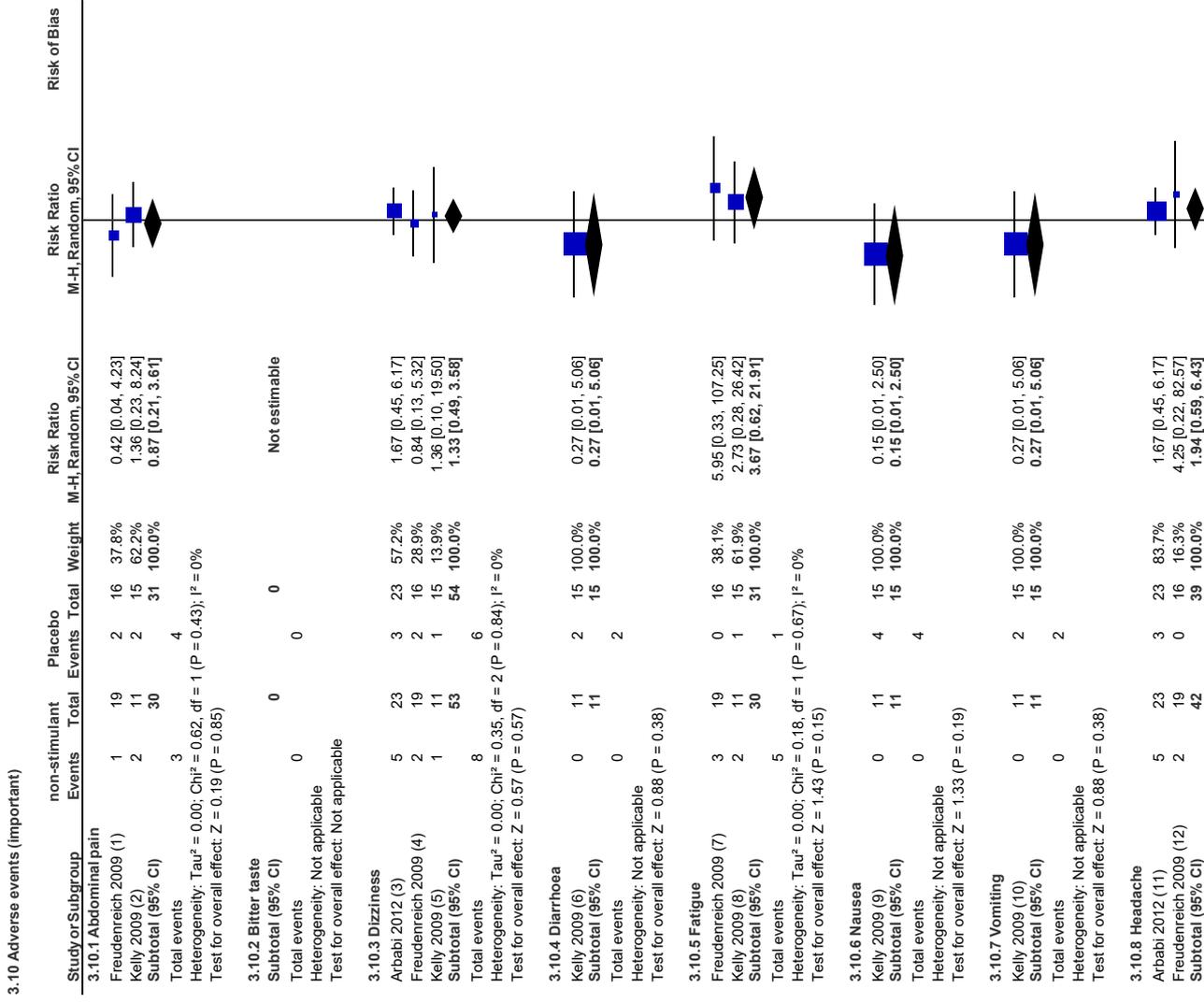


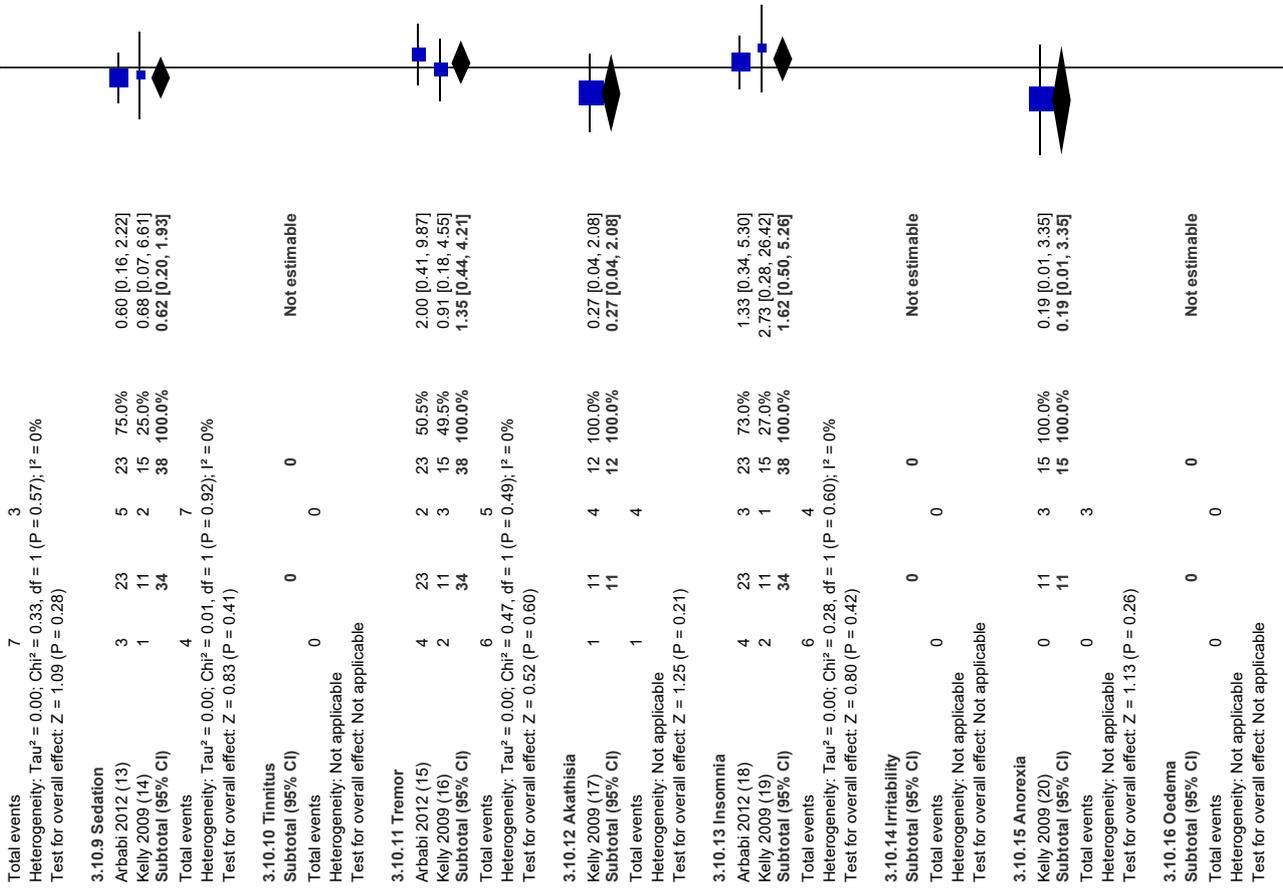
Risk of bias legend

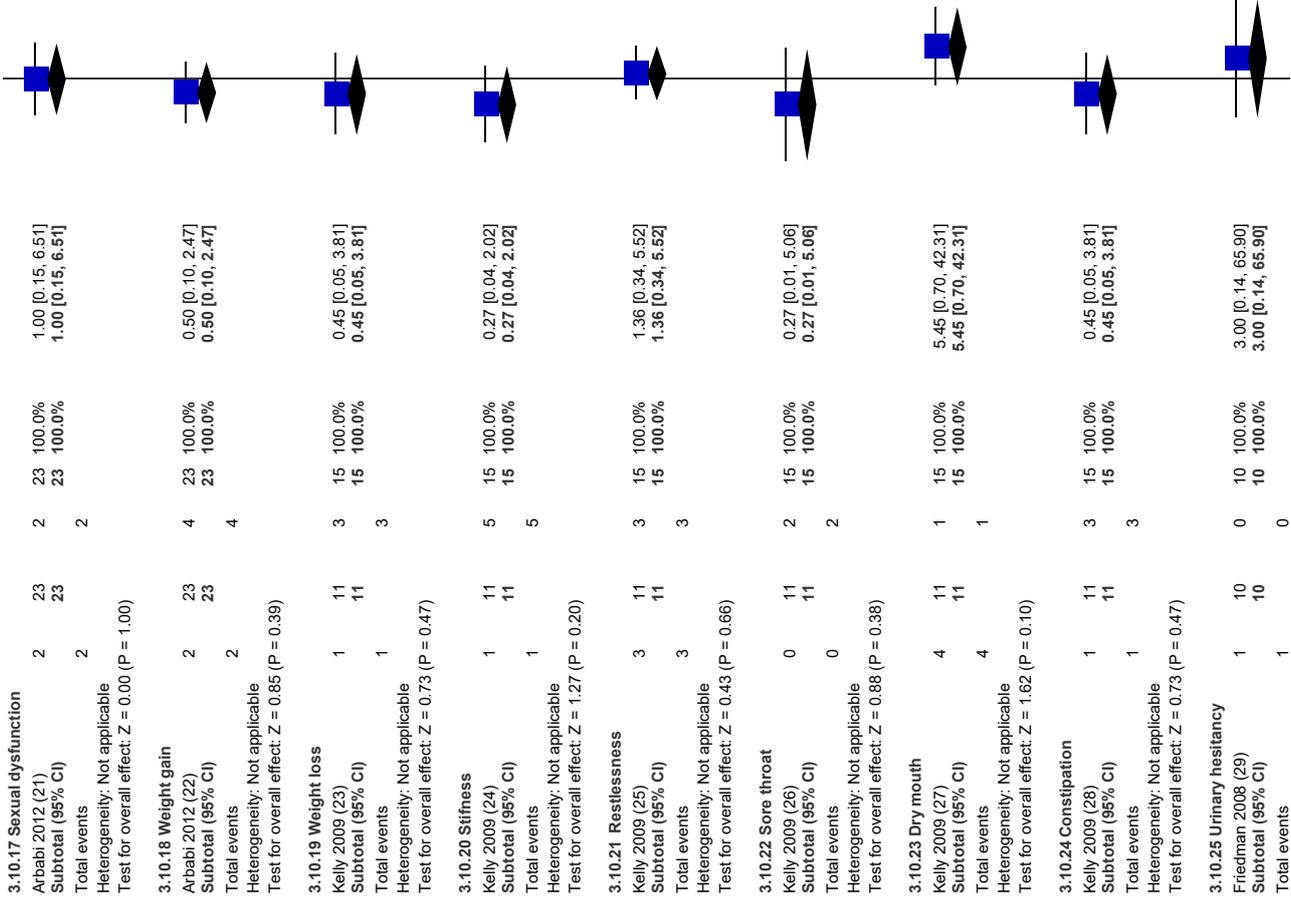
3.9 Extrapyramidal side effects (important)

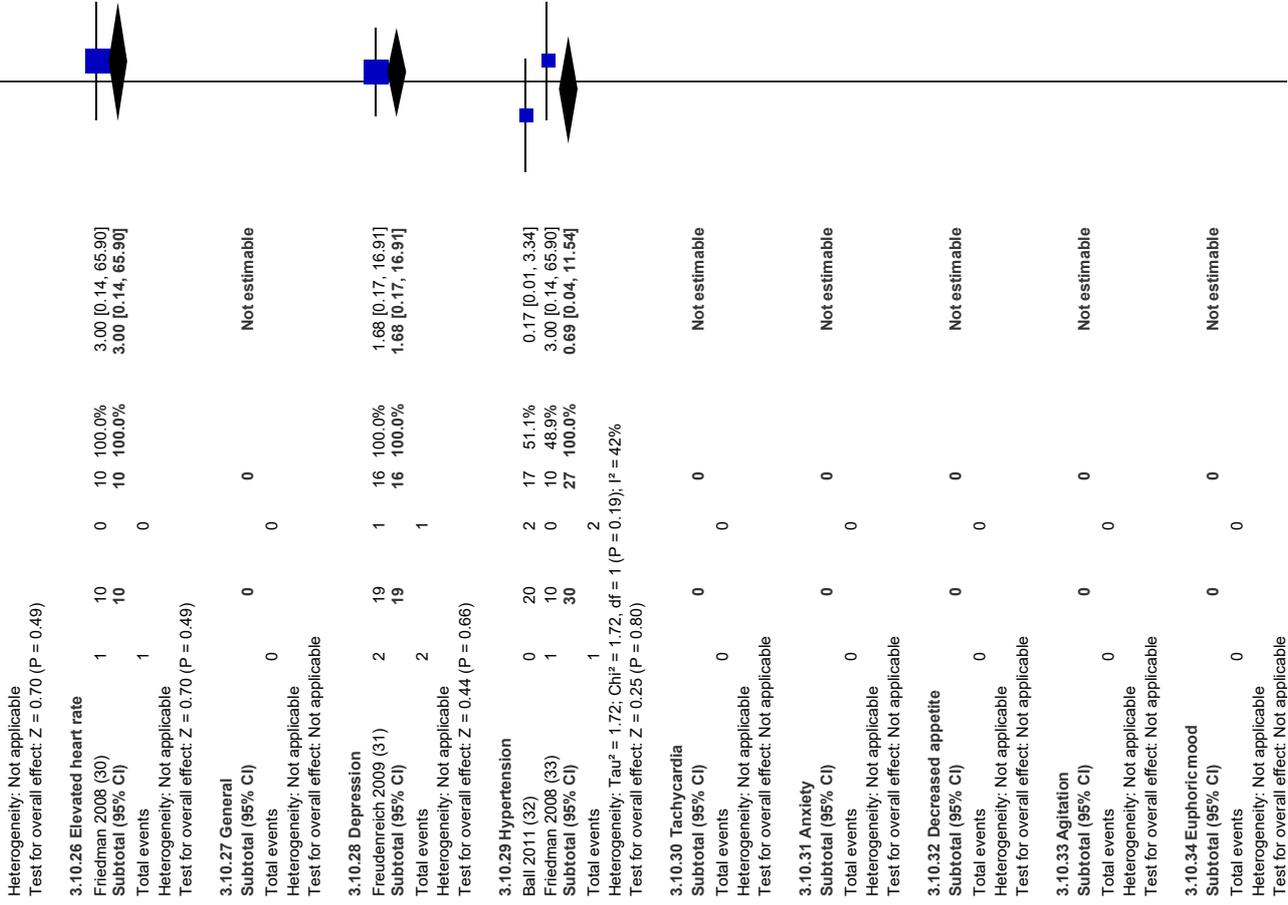


(1) atomoxetine, Simpson Angus Scale, Lower is better
 (2) Modafinil, SAS, afkast på fig 2 day-56, final score, lower is better
 (3) Modafinil, Modified Simpson Angus Scale, change









3.10.35 Psychotic disorders

Subtotal (95% CI) 0 0 0 0 Not estimable

Total events 0 0 0 0

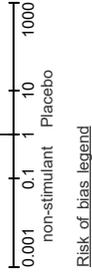
Heterogeneity: Not applicable

Test for overall effect: Not applicable

Test for subgroup differences: $\text{Chi}^2 = 19.56$, $\text{df} = 23$ ($P = 0.67$), $I^2 = 0\%$

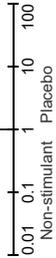
Footnotes

- (1) Modafinil
- (2) atomoxetine
- (3) Modafinil
- (4) Modafinil
- (5) atomoxetine
- (6) atomoxetine
- (7) modafinil
- (8) atomoxetine
- (9) atomoxetine
- (10) atomoxetine
- (11) Modafinil
- (12) Modafinil
- (13) Modafinil
- (14) atomoxetine
- (15) Modafinil
- (16) atomoxetine
- (17) atomoxetine
- (18) Modafinil
- (19) atomoxetine
- (20) atomoxetine
- (21) Modafinil
- (22) Modafinil
- (23) atomoxetine
- (24) atomoxetine
- (25) atomoxetine
- (26) atomoxetine
- (27) atomoxetine
- (28) atomoxetine
- (29) atomoxetine
- (30) atomoxetine
- (31) Modafinil
- (32) atomoxetine
- (33) atomoxetine



3.11 Suicidal behavior (important)

Study or Subgroup	Non-stimulant		Placebo		Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI	Risk of Bias
	Events	Total	Events	Total					
Total (95% CI)	0	0	0	0	0	0	Not estimable		
Total events	0	0	0	0	0	0			
Heterogeneity: Not applicable									
Test for overall effect: Not applicable									



Risk of bias legend

3.12 Substance use (important)

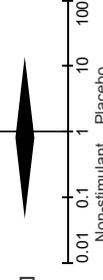
Study or Subgroup	Non-stimulant		Placebo		Total	Weight	Risk Ratio M-H, Random, 95% CI	Risk Ratio M-H, Random, 95% CI	Risk of Bias
	Events	Total	Events	Total					
Total (95% CI)	0	0	0	0	0	0	Not estimable		
Total events	0	0	0	0	0	0			
Heterogeneity: Not applicable									
Test for overall effect: Not applicable									



Risk of bias legend

3.13 Post hoc: Serious adverse events

Study or Subgroup	Non-stimulant		Placebo		Total	Weight	Odds Ratio M-H, Random, 95% CI	Odds Ratio M-H, Random, 95% CI	Risk of Bias
	Events	Total	Events	Total					
Freudenreich 2009 (1)	1	19	1	16	100.0%	0.83 [0.05, 14.48]	0.83 [0.05, 14.48]		
Total (95% CI)	1	19	1	16	100.0%	0.83 [0.05, 14.48]	0.83 [0.05, 14.48]		
Total events	1	1	1	1	1				
Heterogeneity: Not applicable									
Test for overall effect: Z = 0.13 (P = 0.90)									



Footnotes

(1) Modafinil

3.14 Post hoc: worsening psychosis

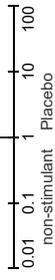
Study or Subgroup	non-stimulant		Placebo		Total	Weight	Risk Ratio		Risk Ratio	Risk of Bias
	Events	Total	Events	Total			M-H, Random, 95% CI	M-H, Random, 95% CI		
Freudenreich 2009 (1)	0	19	1	16	32.9%	0.28	[0.01, 6.51]			
Lehr 2013 (2)	0	12	1	12	33.5%	0.33	[0.01, 7.45]			
Seyv 2005 (3)	1	13	0	11	33.5%	2.57	[0.12, 57.44]			
Total (95% CI)	1	44	2	39	100.0%	0.63	[0.10, 3.79]			

Total events: 1 (non-stimulant), 2 (Placebo)
 Heterogeneity: Tau² = 0.00; Chi² = 1.20, df = 2 (P = 0.55); I² = 0%
 Test for overall effect: Z = 0.51 (P = 0.61)

Footnotes

- (1) Modafinil
- (2) Modafinil
- (3) Modafinil

Risk of bias legend



Intention-to-treat

<u>Unique ID</u>	<u>Study ID</u>	<u>Experimental</u>	<u>Comparator</u>	<u>Outcome</u>	<u>Weight</u>	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>	<u>D5</u>	<u>Overall</u>	
1	Pourshams 2020	Atomoxetine	Placebo	NA	1	+	+	-	+	!	-	+
2	ShojaShafti 2016	Modafinil	Placebo	NA	1	+	+	+	+	!	!	!
3	Kelly 2009	Modafinil	placebo	NA	1	!	+	-	+	+	-	-
4	Friedman 2008	Atomexetin	Placebo	NA	1	!	+	-	+	!	-	
5	Ball 2011	Atomexetin	Placebo	NA	1	!	+	-	+	+	-	D1 Randomisation process
6	Arbabi 2012	Modafinil	Placebo	NA	1	+	+	+	+	!	!	D2 Deviations from the intended interventions
7	Freudenreich 2009	Modafinil	Placebo	NA	1	!	+	+	+	+	+	D3 Missing outcome data
8	Lohr 2013	Modafinil	Placebo	NA	1	!	+	+	+	+	+	D4 Measurement of the outcome
9	Martin 2014	LDX	Placebo	NA	1	!	+	+	+	!	!	D5 Selection of the reported result
10	Peloian 2008	Modafinil	Placebo	NA	1	!	+	-	+	!	-	
11	Pierre 2007	Modafinil	Placebo	NA	1	!	!	-	+	!	-	
12	Prasuna 2014	Modafinil	Placebo	NA	1	+	-	+	+	!	-	
13	Sevy 2005	Modafinil	Placebo	NA	1	!	+	-	-	!	-	

Risk of bias domains

		D1	D2	D3	D4	D5	D6	D7	Overall
Study	Corbeil 2024	-	+	+	-	?	+	+	-
	Rohde 2018	-	+	+	-	+	+	+	-
	Burcu 2018	-	+	+	-	?	+	+	-
	Hollis 2019	+	+	+	-	+	+	+	-

Domains:

D1: Bias due to confounding.

D2: Bias due to selection of participants.

D3: Bias in classification of interventions.

D4: Bias due to deviations from intended interventions.

D5: Bias due to missing data.

D6: Bias in measurement of outcomes.

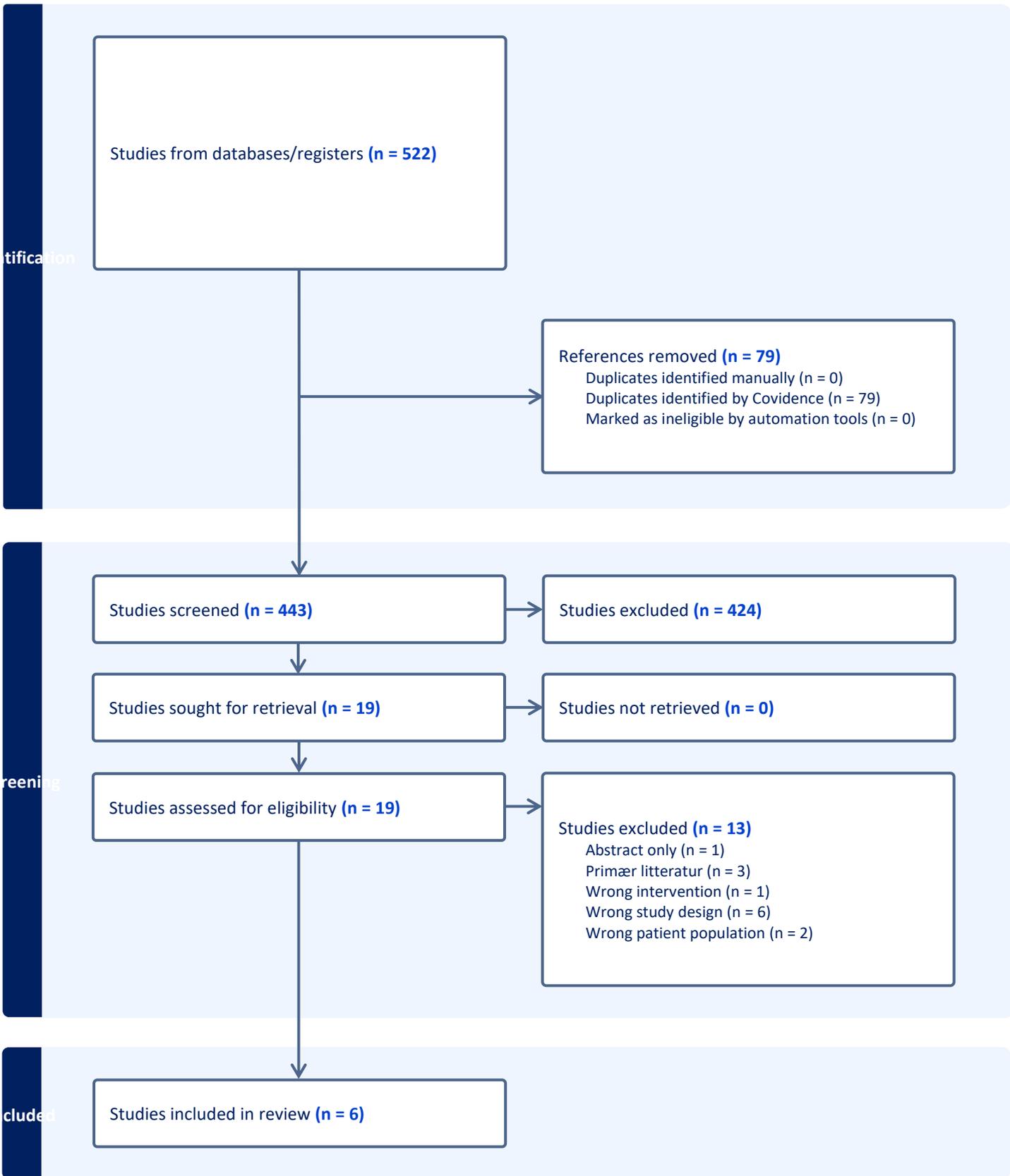
D7: Bias in selection of the reported result.

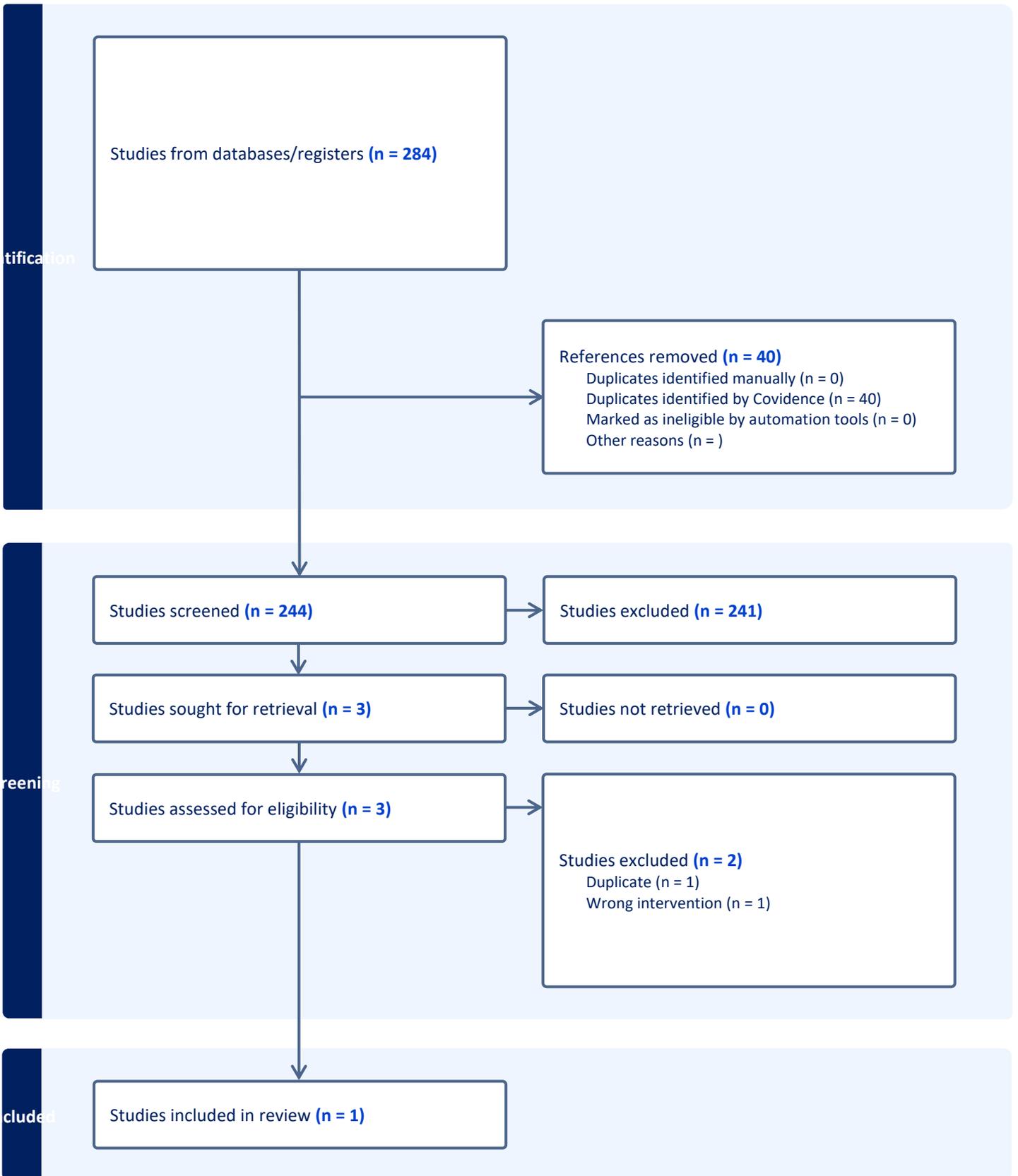
Judgement

- Moderate

+ Low

? No information





Identification

References from databases/registers (**n = 50**) (as **n = 49** studies)

Screening

Studies screened (**n = 49**)

Studies excluded (**n = 1**)

Studies sought for retrieval (**n = 48**)

Studies not retrieved (**n = 0**)

Studies assessed for eligibility (**n = 48**)

Studies excluded (**n = 37**)
Abstract (n = 5)
Protocol (n = 3)
Abstract only (n = 1)
Wrong outcomes (n = 1)
Wrong intervention (n = 24)
Wrong study design (n = 1)
Wrong patient population (n = 2)

Included

Studies included in review (**n = 11**)

