Figures

Figure 1

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

Figure 2 (Analysis 1.2)

Study or Subgroup	Std. Mean Difference	SE	Social skill training Total	No training in social skill Total	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI
1.2.1 Alder 18 mdr-5 år							
Ichikawa 2013 (1)	0.0814	0.6059	5	6	1.6%	0.08 [-1.11, 1.27]	
Subtotal (95% CI)			**5**	**6**	**1.6%**	**0.08 [-1.11, 1.27]**	
Heterogeneity: Not applicable							
Test for overall effect: Z = 0.13 (P = 0.89)							
1.2.2 Alder 6-17 år							
Andrews 2013 (2)	0.3979	0.2654	29	29	7.1%	0.40 [-0.12, 0.92]	
Beaumont 2008 (3)	1.4987	0.3269	26	23	5.0%	1.50 [0.86, 2.14]	
Begeer 2015 (4)	0.5676	0.2078	52	45	10.2%	0.57 [0.16, 0.97]	
Dekker 2019 (5)	0.39	1.3368	47	22	0.3%	0.39 [-2.23, 3.01]	
Frankel 2010 (6)	0.4793	0.2463	35	33	7.9%	0.48 [-0.00, 0.96]	
Freitag 2016 (7)	0.2781	0.1391	101	108	16.5%	0.28 [0.01, 0.55]	
Koenig 2010 (8)	0.0341	0.3147	23	18	5.4%	0.03 [-0.58, 0.65]	
Koning 2013 (9)	0.065	0.5177	7	8	2.2%	0.07 [-0.95, 1.08]	
Laugeson 2009 (10)	0.8111	0.3642	17	16	4.2%	0.81 [0.10, 1.52]	
Lopata 2010 (11)	0.559	0.3406	18	18	4.7%	0.56 [-0.11, 1.23]	
Schohl 2014 (12)	0.4426	0.266	29	29	7.0%	0.44 [-0.08, 0.96]	
Thomeer 2012 (13)	0.58	0.3511	17	17	4.4%	0.58 [-0.11, 1.27]	
Vernon 2018 (14)	0.1012	0.3396	16	19	4.7%	0.10 [-0.56, 0.77]	
Waugh 2015 (15)	0.7284	0.3362	19	19	4.8%	0.73 [0.07, 1.39]	
White 2013 (16)	0.8211	0.3824	15	15	3.8%	0.82 [0.07, 1.57]	
Yoo 2014 (17)	0.249	0.2071	47	47	10.2%	0.25 [-0.16, 0.65]	
Subtotal (95% CI)			**498**	**466**	**98.4%**	**0.47 [0.31, 0.63]**	
Heterogeneity: Tau² = 0.02; Chi² = 19.34, df = 15 (P = 0.20); I² = 22%							
Test for overall effect: Z = 5.77 (P < 0.00001)							
Total (95% CI)			**503**	**472**	**100.0%**	**0.46 [0.31, 0.62]**	
Heterogeneity: Tau² = 0.02; Chi² = 19.70, df = 16 (P = 0.23); I² = 19%							
Test for overall effect: Z = 5.84 (P < 0.00001)							
Test for subgroup differences: Chi² = 0.41, df = 1 (P = 0.52), I² = 0%							

-2 -1 0 1
Favours No training in social skill   Favours Social s

Footnotes
(1) IRS
(2) SCPQ
(3) SSQ, parent rated
(4) SSQ, parent rated
(5) Vineland socialization
(6) SSRS
(7) SRS total, change værdier
(8) SCI
(9) Vineland II socialization
(10) SSRS, parent rated 38 items
(11) SRS
(12) SSRS, parent rated 38 items
(13) BASC- 2-PRS Social skill scale
(14) Parent SSIS
(15) SRS social communication subscale, change score
(16) SRS total, parent rated 65 item
(17) SSRS, 55 item

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

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.2 Sociale færdigheder (social competence).

Figure 3 (Analysis 1.3)

Study or Subgroup	Std. Mean Difference	SE	Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI	Risk of Bias A B C D E F G
1.3.1 SRS						
Freitag 2016 (1)	0.2781	0.1391	64.7%	0.28 [0.01, 0.55]		
Lopata 2010 (2)	0.559	0.3406	12.5%	0.56 [-0.11, 1.23]		
Waugh 2015 (3)	0.7284	0.3362	12.8%	0.73 [0.07, 1.39]		
White 2013 (4)	0.8211	0.3824	10.0%	0.82 [0.07, 1.57]		
Subtotal (95% CI)			**100.0%**	**0.42 [0.19, 0.66]**		

Heterogeneity: Tau² = 0.00; Chi² = 3.14, df = 3 (P = 0.37); I² = 5%
Test for overall effect: Z = 3.48 (P = 0.0005)

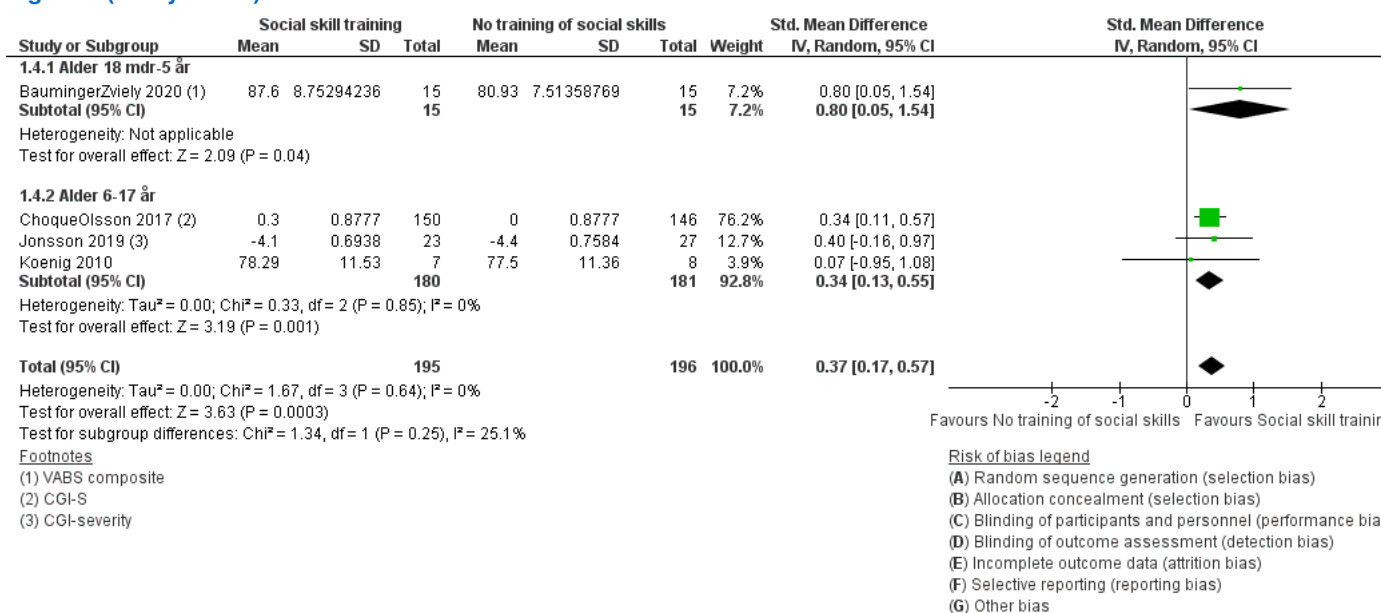|						
1.3.2 SSRS						
Frankel 2010 (5)	0.4793	0.2463	26.8%	0.48 [-0.00, 0.96]		
Laugeson 2009 (6)	0.8111	0.3642	12.3%	0.81 [0.10, 1.52]		
Schohl 2014 (7)	0.4426	0.266	23.0%	0.44 [-0.08, 0.96]		
Yoo 2014 (8)	0.249	0.2071	37.9%	0.25 [-0.16, 0.65]		
Subtotal (95% CI)			**100.0%**	**0.42 [0.17, 0.67]**		

Heterogeneity: Tau² = 0.00; Chi² = 1.90, df = 3 (P = 0.59); I² = 0%
Test for overall effect: Z = 3.33 (P = 0.0009)

1.3.3 SSQ, parent rated						
Beaumont 2008 (9)	1.4987	0.3269	46.3%	1.50 [0.86, 2.14]		
Begeer 2015 (10)	0.5676	0.2078	53.7%	0.57 [0.16, 0.97]		
Subtotal (95% CI)			**100.0%**	**1.00 [0.09, 1.91]**		

Heterogeneity: Tau² = 0.36; Chi² = 5.78, df = 1 (P = 0.02); I² = 83%
Test for overall effect: Z = 2.15 (P = 0.03)

1.3.4 Vineland socialization						
Dekker 2019 (11)	0.39	1.3368	13.0%	0.39 [-2.23, 3.01]		
Koning 2013 (12)	0.065	0.5177	87.0%	0.07 [-0.95, 1.08]		
Subtotal (95% CI)			**100.0%**	**0.11 [-0.84, 1.05]**		

Heterogeneity: Tau² = 0.00; Chi² = 0.05, df = 1 (P = 0.82); I² = 0%
Test for overall effect: Z = 0.22 (P = 0.82)

1.3.5 SCPQ						
Andrews 2013 (13)	0.3979	0.2654	100.0%	0.40 [-0.12, 0.92]		
Subtotal (95% CI)			**100.0%**	**0.40 [-0.12, 0.92]**		

Heterogeneity: Not applicable
Test for overall effect: Z = 1.50 (P = 0.13)

1.3.6 IRS						
Ichikawa 2013 (14)	0.0814	0.6059	100.0%	0.08 [-1.11, 1.27]		
Subtotal (95% CI)			**100.0%**	**0.08 [-1.11, 1.27]**		

Heterogeneity: Not applicable
Test for overall effect: Z = 0.13 (P = 0.89)

1.3.7 SCI						
Koenig 2010 (15)	0.0341	0.3147	100.0%	0.03 [-0.58, 0.65]		
Subtotal (95% CI)			**100.0%**	**0.03 [-0.58, 0.65]**		

Heterogeneity: Not applicable
Test for overall effect: Z = 0.11 (P = 0.91)

1.3.8 BASC-2 PRS Social skill scale						
Thomeer 2012 (16)	0.58	0.3511	100.0%	0.58 [-0.11, 1.27]		
Subtotal (95% CI)			**100.0%**	**0.58 [-0.11, 1.27]**		

Heterogeneity: Not applicable
Test for overall effect: Z = 1.65 (P = 0.10)

1.3.9 SSIS, Parent						
Vernon 2018 (17)	0.1012	0.3396	100.0%	0.10 [-0.56, 0.77]		
Subtotal (95% CI)			**100.0%**	**0.10 [-0.56, 0.77]**		

Heterogeneity: Not applicable
Test for overall effect: Z = 0.30 (P = 0.77)

-4   -2   0   2   4
Favours No training in social skill   Favours Social skill training

Test for subgroup differences: Chi² = 4.77, df = 8 (P = 0.78), I² = 0%

Footnotes
(1) SRS total, change værdier
(2) SRS
(3) SRS social communication subscale, change score
(4) SRS total, parent rated 65 item
(5) SSRS
(6) SSRS, parent rated 38 items
(7) SSRS, parent rated 38 items
(8) SSRS, 55 item
(9) SSQ, parent rated
(10) SSQ, parent rated
(11) Vineland socialization
(12) Vineland II socialization
(13) SCPQ
(14) IRS
(15) SCI
(16) BASC- 2-PRS Social skill scale
(17) Parent SSIS

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)
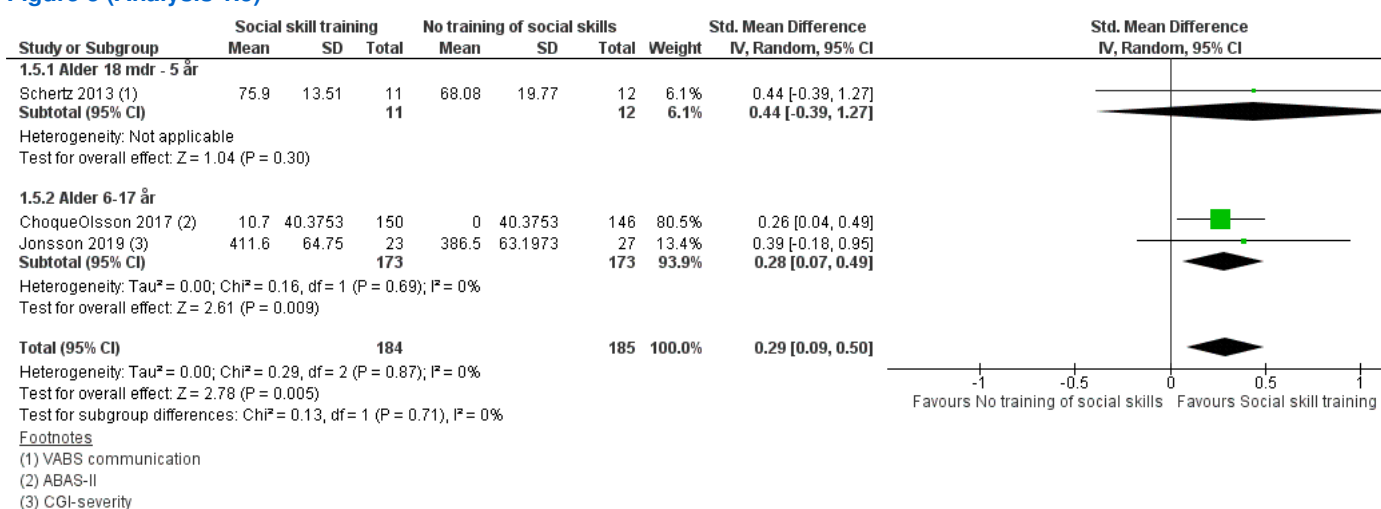(F) Selective reporting (reporting bias)
(G) Other bias

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.3 Sociale færdigheder (social competence)_sensitivitetsanalyse.
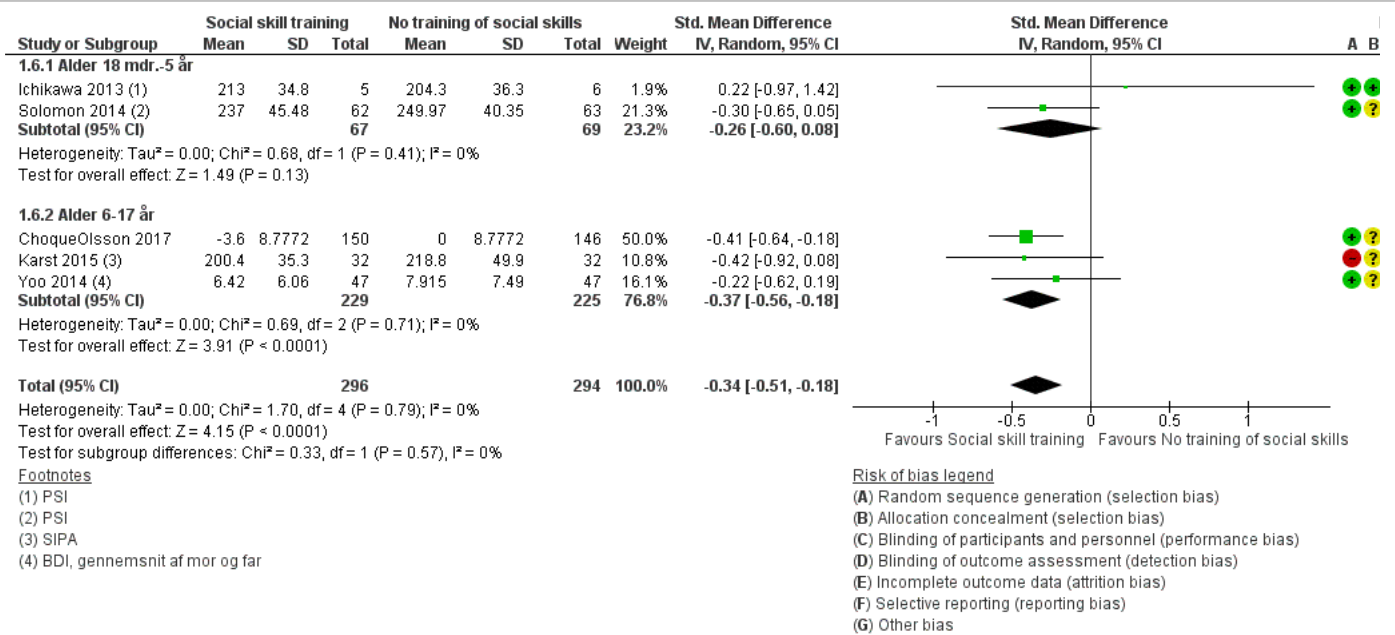
Figure 4 (Analysis 1.4)

Study or Subgroup	Social skill training			No training of social skills			Weight	Std. Mean Difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total		
1.4.1 Alder 18 mdr-5 år								
BaumingerZviely 2020 (1)	87.6	8.75294236	15	80.93	7.51358769	15	7.2%	0.80 [0.05, 1.54]
Subtotal (95% CI)			15			15	7.2%	0.80 [0.05, 1.54]
Heterogeneity: Not applicable								
Test for overall effect: Z = 2.09 (P = 0.04)								
1.4.2 Alder 6-17 år								
ChoqueOlsson 2017 (2)	0.3	0.8777	150	0	0.8777	146	76.2%	0.34 [0.11, 0.57]
Jonsson 2019 (3)	-4.1	0.6938	23	-4.4	0.7584	27	12.7%	0.40 [-0.16, 0.97]
Koenig 2010	78.29	11.53	7	77.5	11.36	8	3.9%	0.07 [-0.95, 1.08]
Subtotal (95% CI)			180			181	92.8%	0.34 [0.13, 0.55]
Heterogeneity: Tau² = 0.00; Chi² = 0.33, df = 2 (P = 0.85); I² = 0%								
Test for overall effect: Z = 3.19 (P = 0.001)								
Total (95% CI)			195			196	100.0%	0.37 [0.17, 0.57]
Heterogeneity: Tau² = 0.00; Chi² = 1.67, df = 3 (P = 0.64); I² = 0%								
Test for overall effect: Z = 3.63 (P = 0.0003)								
Test for subgroup differences: Chi² = 1.34, df = 1 (P = 0.25), I² = 25.1%								

Footnotes
(1) VABS composite
(2) CGI-S
(3) CGI-severity

Favours No training of social skills   Favours Social skill training

Risk of bias legend
(A) Random sequence generation (selection bias)
(B) Allocation concealment (selection bias)
(C) Blinding of participants and personnel (performance bia
(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 Social skill training vs. No training of social skills, outcome: 1.4 Funktionsniveau, klinikerbedømt.

Figure 5 (Analysis 1.5)

Study or Subgroup	Social skill training			No training of social skills			Weight	Std. Mean Difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total		
1.5.1 Alder 18 mdr - 5 år								
Schertz 2013 (1)	75.9	13.51	11	68.08	19.77	12	6.1%	0.44 [-0.39, 1.27]
Subtotal (95% CI)			11			12	6.1%	0.44 [-0.39, 1.27]
Heterogeneity: Not applicable								
Test for overall effect: Z = 1.04 (P = 0.30)								
1.5.2 Alder 6-17 år								
ChoqueOlsson 2017 (2)	10.7	40.3753	150	0	40.3753	146	80.5%	0.26 [0.04, 0.49]
Jonsson 2019 (3)	411.6	64.75	23	386.5	63.1973	27	13.4%	0.39 [-0.18, 0.95]
Subtotal (95% CI)			173			173	93.9%	0.28 [0.07, 0.49]
Heterogeneity: Tau² = 0.00; Chi² = 0.16, df = 1 (P = 0.69); I² = 0%								
Test for overall effect: Z = 2.61 (P = 0.009)								
Total (95% CI)			184			185	100.0%	0.29 [0.09, 0.50]
Heterogeneity: Tau² = 0.00; Chi² = 0.29, df = 2 (P = 0.87); I² = 0%								
Test for overall effect: Z = 2.78 (P = 0.005)								
Test for subgroup differences: Chi² = 0.13, df = 1 (P = 0.71), I² = 0%								

Footnotes
(1) VABS communication
(2) ABAS-II
(3) CGI-severity

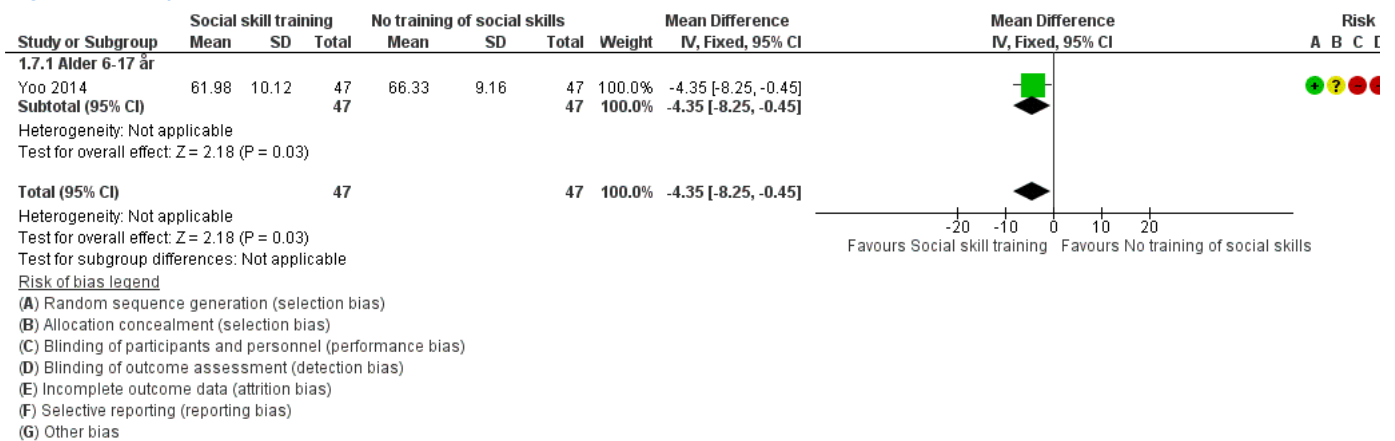Favours No training of social skills   Favours Social skill training

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.5 Funktionsniveau, forældrebedømt.
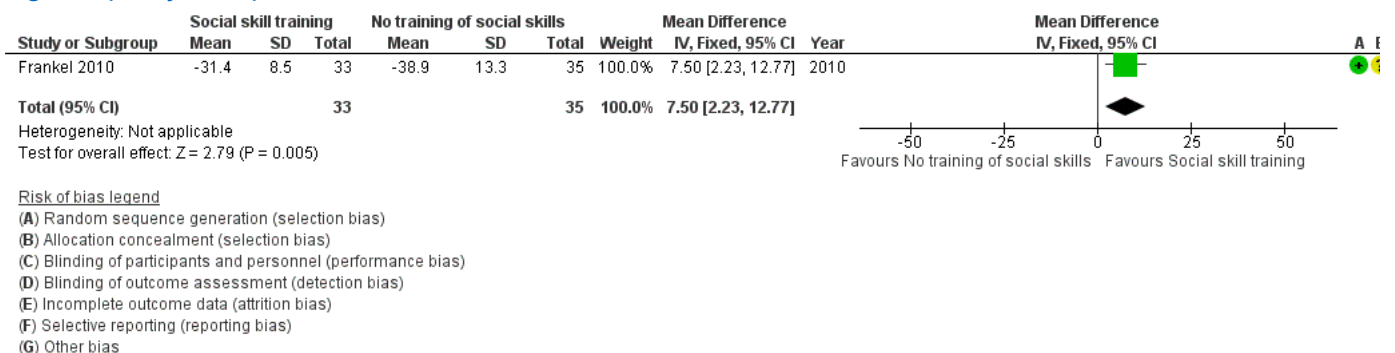
Figure 6 (Analysis 1.6)

Study or Subgroup	Social skill training			No training of social skills			Weight	Std. Mean Difference IV, Random, 95% CI	Std. Mean Difference IV, Random, 95% CI	A B
	Mean	SD	Total	Mean	SD	Total				
1.6.1 Alder 18 mdr.-5 år										
Ichikawa 2013 (1)	213	34.8	5	204.3	36.3	6	1.9%	0.22 [-0.97, 1.42]		➕➕
Solomon 2014 (2)	237	45.48	62	249.97	40.35	63	21.3%	-0.30 [-0.65, 0.05]		➕❓
Subtotal (95% CI)			67			69	23.2%	-0.26 [-0.60, 0.08]		
Heterogeneity: Tau² = 0.00; Chi² = 0.68, df = 1 (P = 0.41); I² = 0%										
Test for overall effect: Z = 1.49 (P = 0.13)										
1.6.2 Alder 6-17 år										
ChoqueOlsson 2017	-3.6	8.7772	150	0	8.7772	146	50.0%	-0.41 [-0.64, -0.18]		➕❓
Karst 2015 (3)	200.4	35.3	32	218.8	49.9	32	10.8%	-0.42 [-0.92, 0.08]		➖❓
Yoo 2014 (4)	6.42	6.06	47	7.915	7.49	47	16.1%	-0.22 [-0.62, 0.19]		➕❓
Subtotal (95% CI)			229			225	76.8%	-0.37 [-0.56, -0.18]		
Heterogeneity: Tau² = 0.00; Chi² = 0.69, df = 2 (P = 0.71); I² = 0%										
Test for overall effect: Z = 3.91 (P < 0.0001)										
Total (95% CI)			296			294	100.0%	-0.34 [-0.51, -0.18]		
Heterogeneity: Tau² = 0.00; Chi² = 1.70, df = 4 (P = 0.79); I² = 0%										
Test for overall effect: Z = 4.15 (P < 0.0001)										
Test for subgroup differences: Chi² = 0.33, df = 1 (P = 0.57), I² = 0%										

Footnotes
(1) PSI
(2) PSI
(3) SIPA
(4) BDI, gennemsnit af mor og far

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 Social skill training vs. No training of social skills, outcome: 1.6 Forældretrivsel.

Figure 7 (Analysis 1.7)

Study or Subgroup	Social skill training			No training of social skills			Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI	Risk A B C D
	Mean	SD	Total	Mean	SD	Total				
1.7.1 Alder 6-17 år										
Yoo 2014	61.98	10.12	47	66.33	9.16	47	100.0%	-4.35 [-8.25, -0.45]		➕❓➖➖
Subtotal (95% CI)			47			47	100.0%	-4.35 [-8.25, -0.45]		
Heterogeneity: Not applicable										
Test for overall effect: Z = 2.18 (P = 0.03)										
Total (95% CI)			47			47	100.0%	-4.35 [-8.25, -0.45]		
Heterogeneity: Not applicable										
Test for overall effect: Z = 2.18 (P = 0.03)										
Test for subgroup differences: Not applicable										

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)
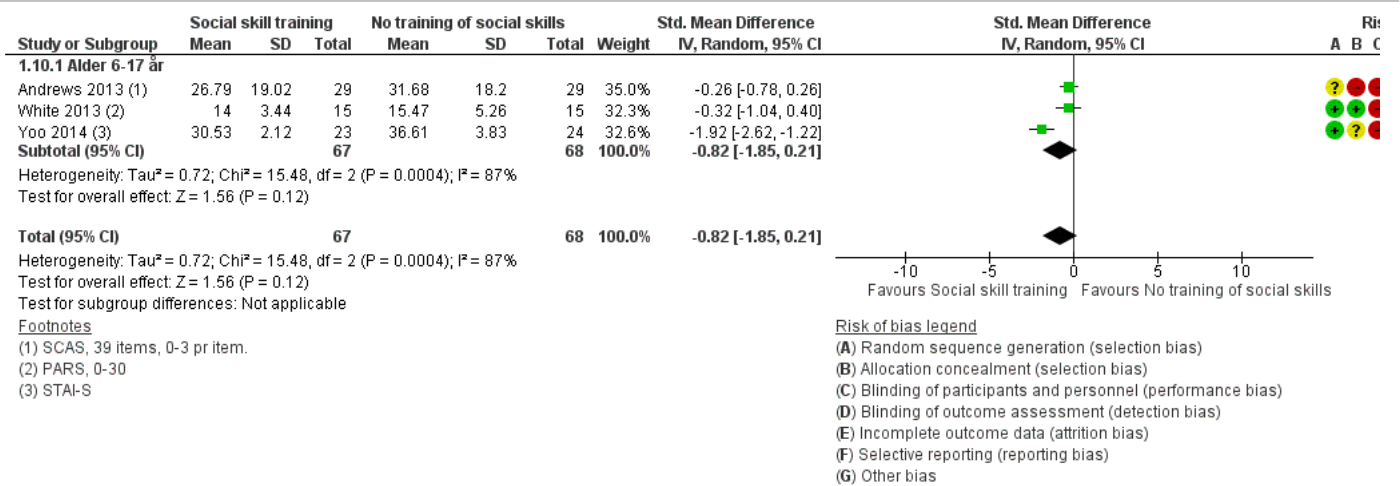(F) Selective reporting (reporting bias)
(G) Other bias

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.7 Adfærdsvanskeligheder, forældrerapporteret, K-CBCL total, lower better.

Figure 8 (Analysis 1.8)

Study or Subgroup	Social skill training			No training of social skills			Weight	Mean Difference IV, Fixed, 95% CI	Year	Mean Difference IV, Fixed, 95% CI	A B
	Mean	SD	Total	Mean	SD	Total					
Frankel 2010	-31.4	8.5	33	-38.9	13.3	35	100.0%	7.50 [2.23, 12.77]	2010		➕❓
Total (95% CI)			33			35	100.0%	7.50 [2.23, 12.77]			
Heterogeneity: Not applicable											
Test for overall effect: Z = 2.79 (P = 0.005)											

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)
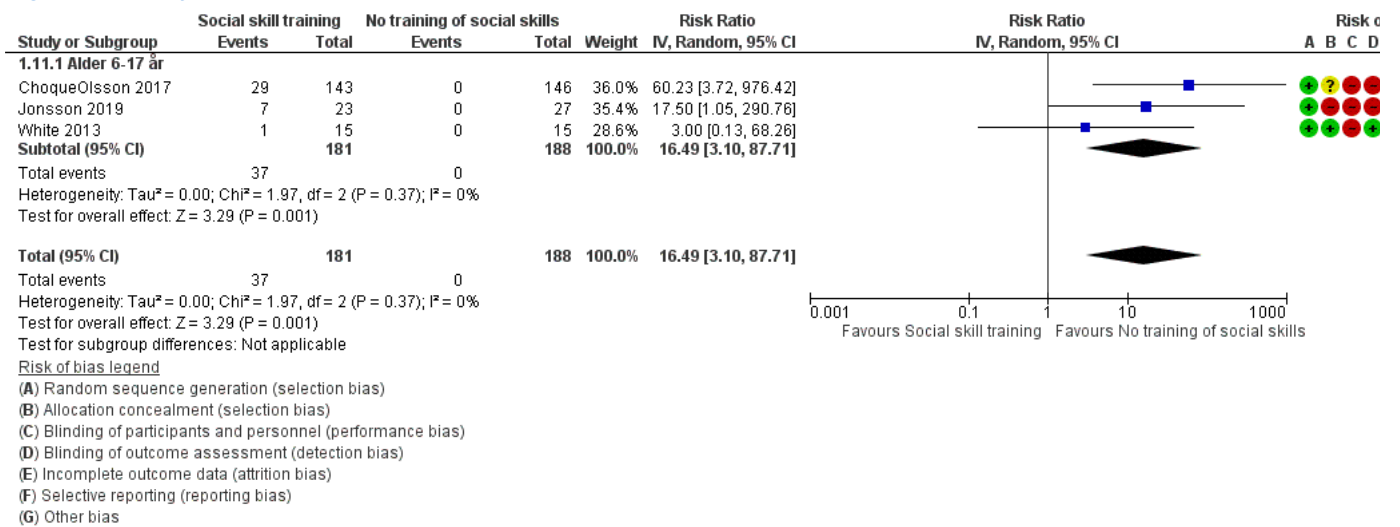(F) Selective reporting (reporting bias)
(G) Other bias

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.8 Livskvalitet (quality of life): Ensomhed (loneliness) -alder 6-17 år.
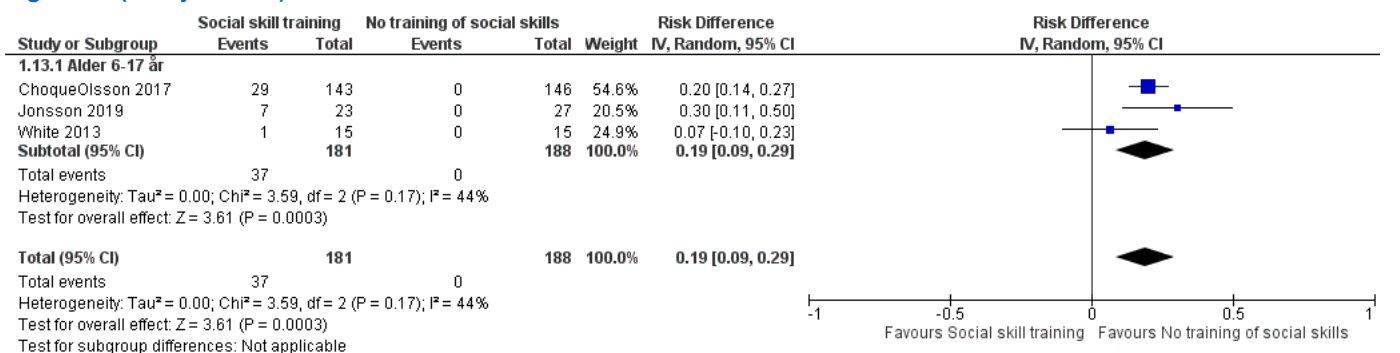
Figure 9 (Analysis 1.10)

Study or Subgroup	Social skill training Mean	SD	Total	No training of social skills Mean	SD	Total	Weight	Std. Mean Difference IV, Random, 95% CI
1.10.1 Alder 6-17 år								
Andrews 2013 (1)	26.79	19.02	29	31.68	18.2	29	35.0%	-0.26 [-0.78, 0.26]
White 2013 (2)	14	3.44	15	15.47	5.26	15	32.3%	-0.32 [-1.04, 0.40]
Yoo 2014 (3)	30.53	2.12	23	36.61	3.83	24	32.6%	-1.92 [-2.62, -1.22]
Subtotal (95% CI)			67			68	100.0%	-0.82 [-1.85, 0.21]

Heterogeneity: Tau² = 0.72; Chi² = 15.48, df = 2 (P = 0.0004); I² = 87%
Test for overall effect: Z = 1.56 (P = 0.12)

			67			68	100.0%	-0.82 [-1.85, 0.21]
Total (95% CI)								

Heterogeneity: Tau² = 0.72; Chi² = 15.48, df = 2 (P = 0.0004); I² = 87%
Test for overall effect: Z = 1.56 (P = 0.12)
Test for subgroup differences: Not applicable

Footnotes
(1) SCAS, 39 items, 0-3 pr item.
(2) PARS, 0-30
(3) STAI-S

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 Social skill training vs. No training of social skills, outcome: 1.10 Angst (anxiety).

Figure 10 (Analysis 1.11)

Study or Subgroup	Social skill training Events	Total	No training of social skills Events	Total	Weight	Risk Ratio IV, Random, 95% CI
1.11.1 Alder 6-17 år						
ChoqueOlsson 2017	29	143	0	146	36.0%	60.23 [3.72, 976.42]
Jonsson 2019	7	23	0	27	35.4%	17.50 [1.05, 290.76]
White 2013	1	15	0	15	28.6%	3.00 [0.13, 68.26]
Subtotal (95% CI)		181		188	100.0%	16.49 [3.10, 87.71]
Total events	37		0			

Heterogeneity: Tau² = 0.00; Chi² = 1.97, df = 2 (P = 0.37); I² = 0%
Test for overall effect: Z = 3.29 (P = 0.001)

Total (95% CI)		181		188	100.0%	16.49 [3.10, 87.71]
Total events	37		0			

Heterogeneity: Tau² = 0.00; Chi² = 1.97, df = 2 (P = 0.37); I² = 0%
Test for overall effect: Z = 3.29 (P = 0.001)
Test for subgroup differences: Not applicable

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)
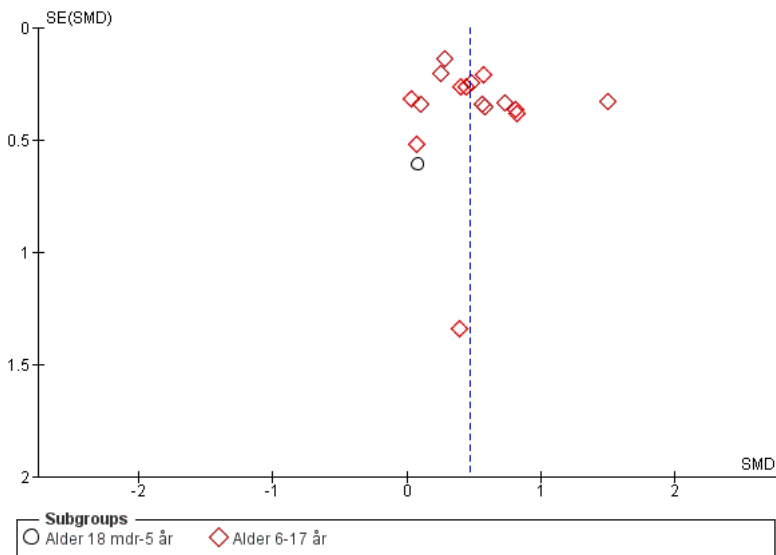(G) Other bias

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.11 Bivirkninger (adverse events).

Figure 11 (Analysis 1.13)

Study or Subgroup	Social skill training Events	Total	No training of social skills Events	Total	Weight	Risk Difference IV, Random, 95% CI
1.13.1 Alder 6-17 år						
ChoqueOlsson 2017	29	143	0	146	54.6%	0.20 [0.14, 0.27]
Jonsson 2019	7	23	0	27	20.5%	0.30 [0.11, 0.50]
White 2013	1	15	0	15	24.9%	0.07 [-0.10, 0.23]
Subtotal (95% CI)		181		188	100.0%	0.19 [0.09, 0.29]
Total events	37		0			

Heterogeneity: Tau² = 0.00; Chi² = 3.59, df = 2 (P = 0.17); I² = 44%
Test for overall effect: Z = 3.61 (P = 0.0003)

Total (95% CI)		181		188	100.0%	0.19 [0.09, 0.29]
Total events	37		0			

Heterogeneity: Tau² = 0.00; Chi² = 3.59, df = 2 (P = 0.17); I² = 44%
Test for overall effect: Z = 3.61 (P = 0.0003)
Test for subgroup differences: Not applicable

Forest plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.13 Bivirkninger (adverse events)_RD.

Figure 12 (Analysis 1.2)

Funnel plot of comparison: 1 Social skill training vs. No training of social skills, outcome: 1.2 Sociale færdigheder (social competence).