

Table A1 Changes in self reported mental health (SDQ) through 24 months; by treatment group and pooled. Finnmark Activity School

Self reported SDQ score*	Change at follow up(95 % CI) Single-family intervention	Change at follow up (95% CI) Multiple-family intervention	Between group difference (95% CI)	P value group by time [†]
Prosocial behaviour				
6 months	0.12 (-0.83 to 1.06)	0.08(-0.95 to 1.11)	-0.04 (-1.43 to 1.37)	0.958
12 months	0.16 (-0.68 to 0.99)	0.51(-0.33 to 1.35)	0.35 (0.84 to 1.53)	0.564
24 months	-0.60 (-1.45 to 0.26)	0.01(-0.85 to 0.87)	0.61 (-0.60 to 1.82)	0.324
Hyperactivity-inattention				
6 months	0,1 (-0,9 to 1,1)	-0.48 (-1.61 to 0.65)	-0,58 (-2,10 to 0,93)	0.452
12 months	-0.28(-1.18 to 0.62)	-0.32 (-1.22 to0.58)	0,03 (-1,31 to 1,24)	0.959
24 months	-0,16 (-1,08 to 0,76)	0,12 (-0.8 to 1.05)	0,28 (-1,02 to 1,59)	0.670
Emotional symptoms				
6 months	-0.68(-1.62 to 0.27)	-0,85 (-1.92 to 0.22)	-0.18 (-1.6 to 1.25)	0.810
12 months	-1.13(-1.99 to -0.28)	-0.97 (-1.81 to -0.13)	0.16 (-1.04 to 1.36)	0.795
24 months	-0.74 (-1.62 to 0.14)	-0.60 (-1.47 to 0.27)	0.14 (-1.1 to 1.38)	0.828
Conduct problems				
6 months	-0.59 (` -1.32 to 0.15)	-0.82 (-1.61 to -0.02)	-0.23 (-1.31 to 0.85)	0.671
12 months	-0.67 (` -1.32 to -0.01)	-0.68 (-1.33 to -0.03)	-0.01 (-0.93 to 0.91)	0.979
24 months	-0.31 (-0.98 to 0.36)	-0.40 (-1.08 to 0.26)	-0.09 (-1.04 to 0.86)	0.848
Peer problems				
6 months	-0.68(-1.61 to 0.25)	-0.39 (-1.41 to 0.62)	0.29 ((-1.09 to 1.67)	0.681
12 months	-1.42 (-2.25 to -0.59)	-0.24 (-1.06 to 0.59)	1.19 (-1.05 to 1.36)	0.048
24 months	-0.82 (-1,67 to 0.03)	-0.67(-1.52 to 0.19)	0.15 (-1.05 to 1.36)	0.804
Total difficulties				
6 months	-1.78(-4.11 to 0.54)	-3.02(- 5.73 to -0.32)	-1.24 (-4.8 to 2.32)	0.495
12 months	-3.43 (-5.53 to -1.32)	-2.52 (-4.59 to -0.46)	0.90 (-2.05 to 3.85)	0.549
24 months	-1.87 (-4.05 to 3.85)	-1.91 (-4.07 to 0.23)	-0.04 (- 3.1 to 3.01)	0.977

SDQ Child Total score	Both treatment groups pooled(95% KI)	P value -change from baseline
3 months	-2.27 (-4.02 to -0.53)	0.011
12 months	-2.94 (-4.40 to - 1.47)	0.000
24 months	-1.89 (-3.41 to -0.37)	0.015

Data based on mixed models analysis with single-family intervention as reference group.

* According to Norwegian version of Strength and Difficulty Questionnaire (23)

[†]P value for equality between groups, group-by-time effect

Table A2 Changes in parent reported mental health (SDQ) through 24 months by treatment group and pooled. Finnmark Activity School.

Parent reported SDQ score*	Change at follow up(95 % CI) Single-family intervention	Change at follow up(95 % CI) Multiple-family intervention	Between group difference (95% CI)	P value group by time[†]
Prosocial behaviour				
6 months	0.03 (-0.69 to 0.75)	0.25 (-0.43 to 0.93)	0.22 (-0.77 to 1.21)	0.661
12 months	-0.02 (-0.56 to 0.60)	0 (-0.57 to 0.57)	-0.02 (-0.83 to 0.80)	0.966
24 months	0.06 (-0.57 to 0.69)	0,39 (-0.19 to 0.97)	0.33 (-0.53 to 1.18)	0.450
Hyperactivity-inattention				
6 months	-0.1 (-0.78 to 0.58)	-0.07 (0.71 to 0.57)	0.03 (-0.91 to 0.96)	0.954
12 months	0.02 (-0.53 to 0.57)	-0.18 (-0.71 to 0.36)	-0.20 (-0.96 to 0.57)	0.611
24 months	-0.49 (-1.09 to 0.10)	-0.44 (-0.99 to 0.10)	0.05 (-0.75 to 0.86)	0.899
Emotional symptoms				
6 months	-0.42 (-1.23 to 0.38)	-0,82 (-1.58 to -0.06)	-0.39 (-1.5 to 0.71)	0.485
12 months	-0.80 (-1.45 to -0.15)	-0.63 (-1.27 to - 0.00)	0.16 (-0.74 to 1.07)	0.721
24 months	-0.76 (-1.47 to -0.06)	-0.77 (-1.41 to - 0.13)	0.0 (-0.96 to 0.95)	0.992
Conduct problems				

6 months	-0.46 (-1.02 to 0.09)	-0.11(-0.63 to 0.41)	0.35 (-0.4 to 1.11)	0.359
12 months	-0.11 (-0.56 to 0.33)	-0.09(-0.52 to 0.35)	0.03 (-0.59 to 0.65)	0.932
24 months	-0.21 (-0.70 to 0.27)	-0.06 (-0.50 to 0.38)	0.15 (-0.5 to 0.8)	0.654
Peer problems				
6 months	-0.11(-0.85 to-0.63)	-0.04 (-0.73 to 0.66)	0.07 (-0.95 to 1.09)	0.892
12 months	-0.33 (-0.92 to 0.27)	-0.12(- 0.70 to 0.46)	0.21 (-0.62 to 1.04)	0.625
24 months	-0.54 (-1.19 to 0.10)	-0.36 (-0.95 to 0.23)	0.19 (-0.69 to 1.06)	0.678
Total difficulties				
6 months	-1.38(-3.20 to 0.45)	-1.03(-2.74 to 0.68)	0.35 (-2.16 to 2.85)	0.786
12 months	-1.42 (-2.88 to 0.05)	-0.96(- 2.39 to 0.47)	0.46 (-1.58 to2.51)	0.659
24 months	-2.25(-3.85 to -0.66)	-1.59 (- 3.05 to -0.14)	0.66 (-1.50 to 2.82)	0.550
SDQ Parents Total score	Both treatment groups pooled(95% KI)		P value -change from baseline	
3 months	-1.20 (-2.44 to 0.04)		0.058	
12 months	-1.18 (-2.19 to -0.16)		0.023	
24 months	-1.89 (-2.96 to -0.83)		0.000	

Data based on mixed models analysis with single-family intervention as reference group.

* According to Norwegian version of Strength and Difficulty Questionnaire (23)

[†]P value for equality between groups, group-by-time effect

Table A3 Changes in self perception profile for children through 24 months in Finnmark Activity School; by treatment group.

Self perception profile for children (SPPC) *	Change at follow up(95 % CI) Single-family intervention	Change at follow up(95 % CI) Multiple-family intervention	Between group difference (95% CI)	p value group by time [†]
School competence			Koef (95% KI)	
6 months	0.05(-0.18 to 0.28)	-0.01 (-0.24 to 0.22)	-0.06 (-0.38 to 0.27)	0.742
12 months	0.12 (-0.69 to 0.31)	-0.07 (-0.26 to 0.12)	-0.18 (-0.45 to 0.08)	0.165
24 months	-0.06 (-0.26 to 0.14)	-0.14 (-0.33 to 0.05)	-0.08(-0.35 to 0.20)	0.576
Social acceptanse				
6 months	0.04(-0.20 to 0.29)	0.20 (-0.04 to 0.44)	0.16 (0.19 to 0.50)	0.370
12 months	0.17(-0.03 to 0.37)	0.14 (-0.06 to 0.33)	-0.03 (-0.31 to 0.24)	0.816
24 months	0.03 (-0.17 to 0.23)	-0.04 (-0.24 to 0.16)	0.07 (-0.35 to 0.22)	0.651
Athletic competence				
6 months	0.63(0.34 to 0.91)	0.64 (0.36 to 0.92)	0.01(-0.38 to 0.41)	0.946
12 months	0.71(0.48 to 0.94)	0.58 (0.35 to 0.81)	-0.13 (-0.45 to 0.20)	0.442
24 months	0.57 (0.33 to 0.81)	0.44(0.21 to 0.67)	-0.13 (-0.47 to 0.20)	0.439
Physical appearance				
6 months	0.20 (-0.6 to 0.46)	-0.07(-0.33 to 0.19)	-0.28 (-0.64 to 0.09)	0.144
12 months	0.17 (-0.04 to 0.38)	0.12(-0.10 to 0.33)	-0.06 (-0.35 to 0.24)	0.718
24 months	0.11 (-0.11 to 0.34)	-0.19 (-0.40 to 0.03)	-0.30 (-0.61 to 0.01)	0.056
Behavioural conduct				
6 months	0.03(-0.19 to 0.25)	0.13 (-0.09 to 0.36)	0.10((-0.21 to 0.42)	0.523
12 months	0.16 (-0.02 to 0.34)	0.17 (-0.01 to 0.35)	0.01 (-0.25 to 0.27)	0.945
24 months	-0.04 (-0.15 to 0.23)	0.03 (-0.15 to 0.21)	0.01 (-0.27 to 0.26)	0.968
Self worth				
6 months	-0.11(-0.32 to 0.10)	-0.11(-0.32 to 0.10)	0 (-0.30 to 0.30)	0.993
12 months	0.03 (-0.14 to 0.20)	0.06 (-0.11 to 0.23)	0.04 (-0.21 to 0.28)	0.770
24 months	-0.04 (-0.22 to 0.14)	-0.14 (-0.32 to 0.04)	-0.1 (-0.36 to 0.16)	0.448

Data based on mixed models analysis with single-family intervention as reference group.

* According to Norwegian version of Harter Self- Perception Profile for Children (24)

[†]P value for equality between groups, group-by-time effect

Table A4 Changes in self reported and parent reported quality of life (KINDL) through 24 months by treatment group and pooled effects. Finnmark Activity School

Quality of life Self reported KINDL*	Change at follow up(95 % CI) Single-family intervention	Change at follow up(95 % CI) Multiple-family intervention	Between group difference (95% CI)	p value group by time [†]
Total				
6 months	0.20 (-5.14 to 5.54)	0.95(-4.41 to 6.31)	0.75 (-6.82 to 8.32)	0.846
12 months	4.43 (-0.21 to 9.07)	2.64(-1.48 to 6.75)	-1.80 (-8.00 to 4.41)	0.570
24 months	-0.68 (-5.31 to 3.96)	-1.45(-5.61 to 2.70)	-0.78 (-7.00 to 5.45)	0.807
Parent reported KINDL*				
Total				
6 months	-1.93 (-6.43 to 2.57)	3.01 (-0.79 to 6.80)	4.94 (-0.95 to 10.82)	0.100
12 months	0.32 (-3.05 to 3.68)	2.99 (-0.28 to 6.25)	2.67 (-2.02 to 7.36)	0.264
24 months	1.61 (-1.85 to 5.07)	2.27 (-0.95 to 5.48)	0.66 (-4.06 to 5.38)	0.784
Physical				
6 months	-3.47 (-11.72 to 4.79)	6.40 (-1.39 to 14.20)	9.87 (-1.48 to 21.23)	0.088
12 months	4.58 (-2.16 to 11.33)	3.05 (-3.57 to 9.67)	-1.53 (-10.98 to 7.92)	0.751
24 months	4.39 (-2.84 to 11.63)	1.84 (-4.87 to 8.56)	-2.55 (-12.42 to 7.32)	0.613
Emotions				
6 months	0.01 (-6.35 to 6.36)	5.49 (-0.10 to 11.08)	5.49 (-2.98 to 13.95)	0.204
12 months	1.06 (-3.83 to 5.94)	1.85 (-2.88 to 6.59)	0.80 (-6.01 to 7.60)	0.819
24 months	0.17 (-5.00 to 5.34)	5.30 (0.54 to 10.06)	5.13 (-1.90 to 12.16)	0.153
Self esteem				
6 months	-2.79 (-9.04 to 3.47)	2.13(-3.73 to 8.00)	4.92 (-3.66 to 13.50)	0.261
12 months	-1.36 (-6.49 to 3.78)	5.38(0.46 to 10.31)	6.74 (-0.37 to 13.85)	0.063
24 months	5.15 (-0.25 to 10.55)	1.27 (-3.63 to 6.17)	-3.88 (-11.18 to 3.41)	0.297

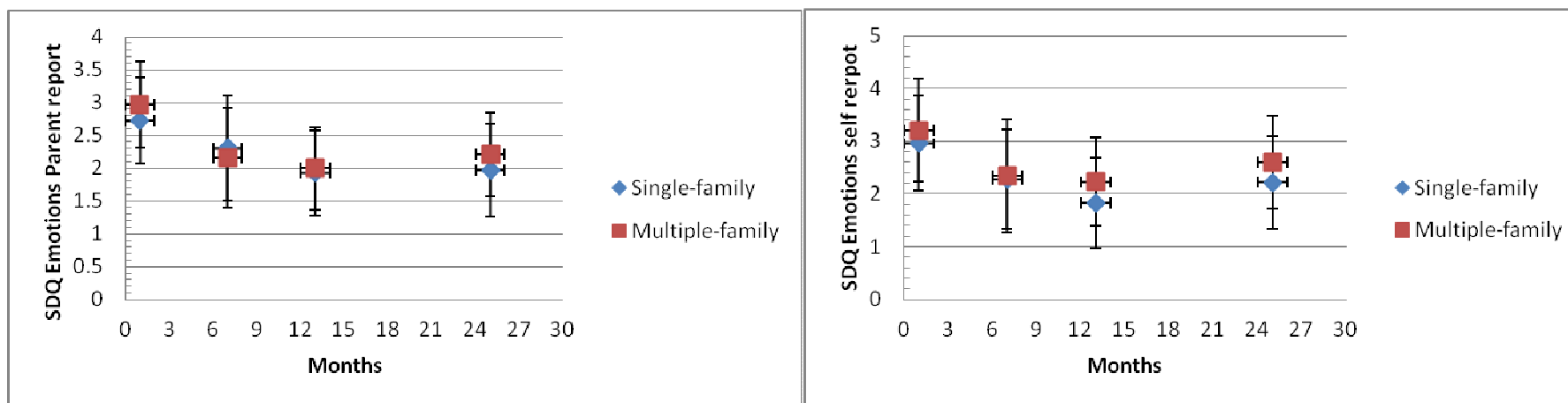
Family				
6 months	0.32(-5.02 to 5.65)	1.30 (-3.69 to 6.29)	0.99(-6.32 to 8.29)	0.791
12 months	1.22 (-3.04 to 5.48)	0.71 (-3.55 to 4.97)	-0.51 (-6.54 to 5.51)	0.867
24 months	-0.23 (-4.84 to 4.37)	2.23 (-2.01 to 6.48)	2.46 (-3.80 to 8.72)	0.441
Friends				
6 months	-1.58 (-6.87 to 3.71)	3.13(-1.67 to 7.93)	4.70 (-2.44 to 11.85)	0.197
12 months	0.41 (-3.78 to 4.61)	2.91(-1.21 to 7.02)	2.49 (-3.38 to 8.37)	0.406
24 months	2.09 (-2.38 to 6.55)	1.35 (-2.75 to 5.46)	-0.73 (-6.80 to 5.34)	0.813
School				
6 months	-1.22 (-6.65 to 4.21)	-2.21 (-7.19 to 2.77)	-0.99(-8.36 to 6.37)	0.792
12 months	0.37 (-4.03 to 4.76)	3.63 (-0.66 to 7.92)	3.27 (-2.88 to 9.41)	0.297
24 months	-0.57 (-5.10 to 3.96)	2.01 (-2.21 to 6.24)	2.58 (-3.61 to 8.78)	0.414
KINDL Child Total score	Both treatment groups pooled (95% CI)		P value -change from baseline	
6 months	0.53 (-3.21 to 4.27)		0.781	
12 months	3.39 (0.34 to 6.43)		0.029	
24 months	-1.16 (-4.22 to 1.90)		0.457	
KINDL Parents Total score	Both treatment groups pooled (95% CI)		P value -change from baseline	
6 months	0.92 (-1.96 to 3.81)		0.531	
12 months	1.67 (-0.67 to 4.02)		0.161	
24 months	1.90 (-0.45 to 4.25)		0.113	

Data based on mixed models analysis with single-family intervention as reference group.

* According to Norwegian version of “Kinder Lebensqualität Fragebogen” KINDL (25)

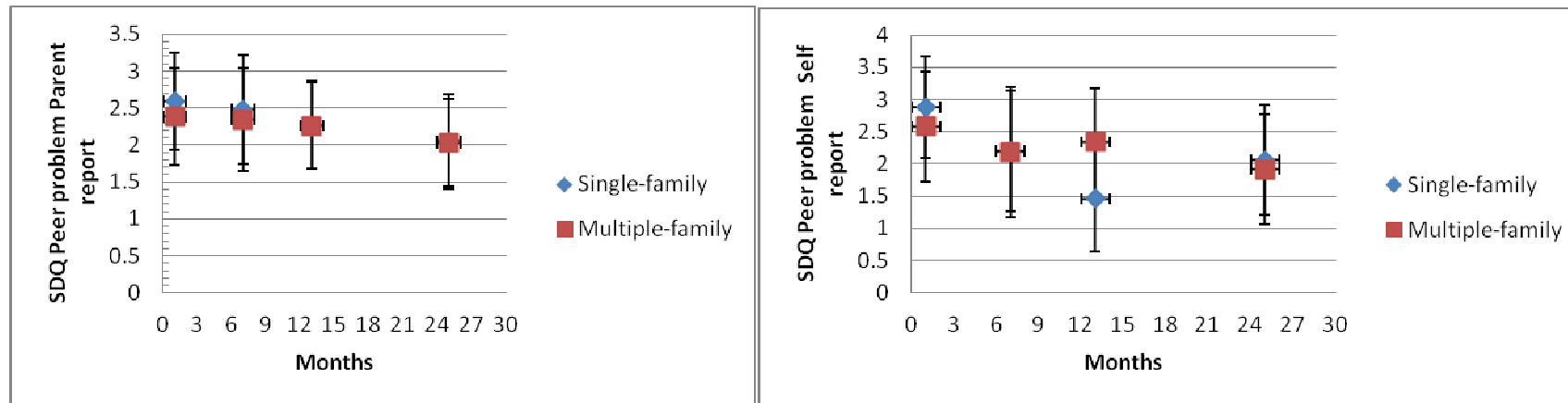
†P value for equality between groups, group-by-time effect

Figure A1 Parent and self- reported mental health (SDQ) emotional symptoms from baseline to 24 months by intervention group. Finnmark Activity School



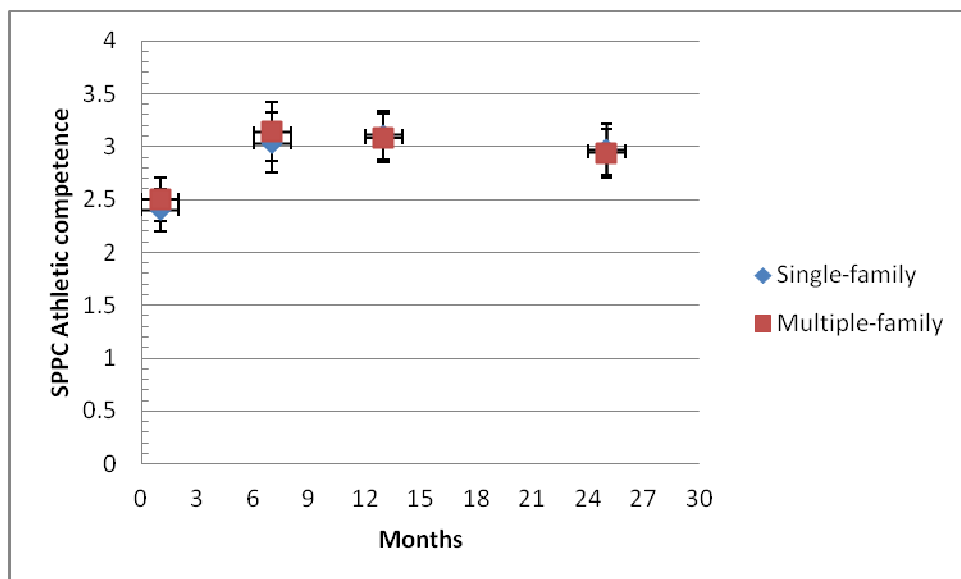
Mean (95% CI) changes in SDQ score emotional symptoms from baseline to 24- months follow up by intervention group.

Figure A2 Parent and self- reported mental health (SDQ) peer problem. Finnmark Activity School



Mean (95% CI) changes in SDQ score peer problem from baseline to 24- months follow up by intervention group.

Figure A 3 Self esteem, athletic competences. Finnmark Activity School



Mean (95% CI) changes in Self Perception Profile, athletic competence from baseline to 24- months follow -up by intervention group.