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	A	B	C	D	E	F	G	H	I	J
1		<b>S1</b>	Intraclass correlations indicating variance in mental health service use due to school level variance for all models (1-14)							
2		<b>S2</b>	Fit statistics for all models (1-10)							
3		<b>S3</b>	Fixed and random effects of main models (1-3V3): raw estimates on log-odds scale							
4		<b>S4</b>	Fixed and random effects of time with learning materials (TWLM) models (4-7V3): raw estimates on log-odds scale							
5		<b>S5</b>	Fixed and random effects of gender models (8-10): raw estimates on log-odds scale							
6		<b>S6</b>	Odds ratios of fixed effects from all models (1-10) with corresponding confidence intervals							
7		<b>S7</b>	Variance decomposition: variances, correlations, covariances, between-cluster variances, ICC at 2 years of exposure, the reform's share of total school and child variances, Pearson's correlation between intercept and reform							
8		<b>S8</b>	Fit statistics for models with school structure interactions							
9		<b>S9</b>	School structure interactions: Results from interaction between learning materials and school structure variables							
10		<b>S10</b>	School structure covariates: Fixed and random effects from school structure interaction models							
11		<b>S11</b>	Model-fitting approach expanded							
12		<b>S12</b>	Results from models with expanded quarters in years, i.e., 2015Q1-2023Q4							
13		<b>S13</b>	Overview of diagnoses from KUHR - Based on ICPC-2 and ICD-10							
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	A	B	C	D	E	F	G	H	I	J	K	L	M
				<b>Model 1</b>		<b>Model 2</b>		<b>Model 3</b>		<b>Model 3 V2 - Adjusting for Covid-19</b>		<b>Model 3 V3 - Adjusting for Municipality</b>	
1													
2		School ID	Standard deviation of intercepts	0.577		0.577		0.590		0.831		0.521	
3		School ID	Standard deviation of time quarter slopes	0.352		0.351		0.338		0.349		0.203	
4		School ID	Standard deviation of learning materials slopes	NA	NA			0.348		0.348		0.339	
5		School ID	Standard deviation of Covid-19 quarters slopes	NA	NA		NA			0.526	NA		
6		School ID	Correlation between intercept and time quarter slopes	-0.544		-0.544		-0.515		-0.694		-0.710	
7		School ID	Correlation between intercept and learning materials slopes	NA	NA			-0.280		-0.157		-0.263	
8		School ID	Correlation between intercept and Covid-19 quarters slopes	NA	NA		NA			-0.735	NA		
9	RANDOM EFFECTS	School ID	Correlation between time quarter slopes and learning materials slopes	NA	NA			0.010		-0.050		-0.133	
10		School ID	Correlation between time quarter slopes and Covid-19 quarters slopes	NA	NA		NA			0.631	NA		
11		School ID	Correlation between Covid-19 quarters slopes and learning materials slopes	NA	NA		NA			-0.041	NA		
12		Municipality ID	Standard deviation of intercepts	NA	NA		NA		NA			0.275	
13		Municipality ID	Standard deviation of time quarter slopes	NA	NA		NA		NA			0.302	
14		Municipality ID	Standard deviation of learning materials slopes	NA	NA		NA		NA			0.061	
15		Municipality ID	Correlation between intercept and time quarter slopes	NA	NA		NA		NA			-0.553	
16		Municipality ID	Correlation between intercept and learning materials slopes	NA	NA		NA		NA			-0.001	
17		Municipality ID	Correlation between time quarter slopes and learning materials slopes	NA	NA		NA		NA			0.770	

	A	B	C	D	E	F	G	H	I	J	K	L	M
18				<i>Log-odds (SE, CI)</i>	<i>z-value</i>								
19			Baseline mental health service use (intercept)	-3.427 (0.015; 0.03-0.03)***	-226.99862	-3.335 (0.023; 0.03-0.04)***	-148.19431	-3.345 (0.023; 0.03-0.04)***	-146.78663	-3.360 (0.023; 0.03-0.04)***	-148.52392	-3.347 (0.028; 0.03-0.04)***	-120.09164
20			learn_materials1			-0.028 (0.010; 0.95-0.99)**	-2.77364	-0.034 (0.013; 0.94-0.99)**	-2.61836	-0.031 (0.013; 0.95-1.00)*	-2.3313	-0.073 (0.015; 0.90-0.96)***	-4.9405
21			subject_guidelines1			-0.075 (0.013; 0.90-0.95)***	-5.84907	-0.082 (0.013; 0.90-0.94)***	-6.31232	-0.063 (0.013; 0.92-0.96)***	-4.82934	-0.083 (0.013; 0.90-0.94)***	-6.46405
22			avg_gender_centered	-0.207 (0.030; 0.77-0.86)***	-6.95194	-0.206 (0.030; 0.77-0.86)***	-6.94622	-0.247 (0.032; 0.73-0.83)***	-7.61978	-0.250 (0.032; 0.73-0.83)***	-7.71205	-0.200 (0.032; 0.77-0.87)***	-6.15974
23			grade_level10	0.362 (0.011; 1.41-1.47)***	33.33812	0.303 (0.017; 1.31-1.40)***	17.78234	0.299 (0.017; 1.30-1.39)***	17.42052	0.314 (0.017; 1.32-1.42)***	18.27627	0.317 (0.017; 1.33-1.42)***	19.05163
24			grade_level6	0.060 (0.008; 1.04-1.08)***	7.41791	0.049 (0.009; 1.03-1.07)***	5.39914	0.055 (0.009; 1.04-1.08)***	6.00923	0.055 (0.009; 1.04-1.08)***	5.98763	0.053 (0.009; 1.04-1.07)***	5.74201
25			grade_level7	0.091 (0.008; 1.08-1.11)***	11.31598	0.062 (0.013; 1.04-1.09)***	4.76552	0.080 (0.014; 1.05-1.11)***	5.76896	0.079 (0.014; 1.05-1.11)***	5.70309	0.074 (0.014; 1.05-1.11)***	5.34401
26			grade_level8	0.174 (0.011; 1.17-1.22)***	15.85903	0.173 (0.011; 1.16-1.22)***	15.75234	0.192 (0.012; 1.18-1.24)***	16.1171	0.188 (0.012; 1.18-1.24)***	15.72678	0.202 (0.012; 1.20-1.25)***	17.27962
27			grade_level9	0.280 (0.011; 1.30-1.35)***	25.66837	0.268 (0.012; 1.28-1.34)***	22.97444	0.278 (0.012; 1.29-1.35)***	23.25865	0.279 (0.012; 1.29-1.35)***	23.25614	0.287 (0.012; 1.30-1.36)***	24.54301
28			year_quarter2020Q4	0.345 (0.011; 1.38-1.44)***	31.58113	0.344 (0.011; 1.38-1.44)***	31.51851	0.344 (0.011; 1.38-1.44)***	31.55117	0.341 (0.011; 1.38-1.44)***	31.05495	0.325 (0.012; 1.35-1.42)***	27.65072
29			year_quarter2021Q1	0.502 (0.011; 1.62-1.69)***	44.89176	0.501 (0.011; 1.61-1.69)***	44.7766	0.501 (0.011; 1.61-1.69)***	44.94878	0.493 (0.011; 1.60-1.67)***	43.21071	0.463 (0.014; 1.55-1.63)***	32.79195
30			year_quarter2021Q2	0.471 (0.012; 1.56-1.64)***	38.96266	0.469 (0.012; 1.56-1.64)***	38.80677	0.469 (0.012; 1.56-1.64)***	39.09721	0.455 (0.013; 1.54-1.62)***	36.23618	0.413 (0.018; 1.46-1.56)***	23.33258
31			year_quarter2021Q3	0.473 (0.013; 1.56-1.65)***	35.97069	0.495 (0.014; 1.60-1.69)***	35.52354	0.498 (0.014; 1.60-1.69)***	36.10434	0.472 (0.015; 1.56-1.65)***	31.92635	0.423 (0.022; 1.46-1.59)***	19.06954
32			year_quarter2021Q4	0.883 (0.014; 2.35-2.49)***	63.11719	0.904 (0.015; 2.40-2.54)***	61.55002	0.909 (0.015; 2.41-2.55)***	62.69815	0.879 (0.015; 2.34-2.48)***	60.62084	0.818 (0.026; 2.15-2.39)***	31.30829
33			year_quarter2022Q1	1.378 (0.015; 3.85-4.09)***	91.02242	1.398 (0.016; 3.92-4.17)***	88.75928	1.406 (0.016; 3.96-4.21)***	90.66165	1.393 (0.015; 3.91-4.14)***	94.37604	1.296 (0.030; 3.44-3.88)***	42.70074
34			year_quarter2022Q2	0.308 (0.018; 1.31-1.41)***	17.51921	0.327 (0.018; 1.34-1.44)***	18.11802	0.335 (0.018; 1.35-1.45)***	18.86793	0.336 (0.017; 1.36-1.45)***	20.32532	0.208 (0.035; 1.15-1.32)***	5.88358



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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
				Model 8 Gender Base		Model 9 Gender LM Interaction		Model 10 Gender LM Interaction Random Slope								
1																
2		School ID	Standard deviation of intercepts	0.582		0.582		0.642								
3		School ID	Standard deviation of time quarter slopes	0.353		0.352		0.338								
4		School ID	Standard deviation of learning materials slopes	NA		NA		0.468								
5		School ID	Standard deviation of gender slopes	NA		NA		0.485								
6		School ID	Standard deviation of gender:learning materials slopes	NA		NA		0.601								
7		School ID	Correlation between intercept and time quarter slopes	-0.540		-0.540		-0.460								
8		School ID	Correlation between intercept and learning materials slopes	NA		NA		-0.370								
9	RANDOM EFFECTS	School ID	Correlation between intercept and gender slopes	NA		NA		-0.390								
10		School ID	Correlation between intercept and gender:learning materials slopes	NA		NA		0.260								
11		School ID	Correlation between time quarter and learning materials slopes	NA		NA		-0.010								
12		School ID	Correlation between time quarter and gender slopes	NA		NA		-0.010								
13		School ID	Correlation between time quarter and gender:learning materials slopes	NA		NA		0.050								
14		School ID	Correlation between learning materials and gender slopes	NA		NA		0.470								
15		School ID	Correlation between learning materials and gender:learning materials	NA		NA		-0.690								
16		School ID	Correlation between gender and gender:learning materials slopes	NA		NA		-0.710								
17				Log-odds (SE, CI)		z-value		Log-odds (SE, CI)		z-value		Log-odds (SE, CI)		z-value		
18			Baseline mental health service use (intercept)	-3.192 (0.017; 0.04-0.04)***	-183.76	-3.171 (0.029; 0.04-0.04)***	-110.3	-3.189 (0.030; 0.04-0.04)***	-107.4637							
19			learn_materials			<b>-0.005 (0.014; 0.97-1.02)</b>	<b>-0.356</b>	<b>-0.016 (0.018; 0.95-1.02)</b>	<b>-0.88619</b>							
20			subject_guidelines1			<b>-0.016 (0.018; 0.95-1.02)</b>	<b>-0.884</b>	<b>-0.025 (0.018; 0.94-1.01)</b>	<b>-1.33905</b>							
21			gender1	<b>-0.525 (0.020; 0.57-0.61)***</b>	<b>-26.648</b>	<b>-0.386 (0.037; 0.63-0.73)**</b>	<b>-10.5</b>	<b>-0.422 (0.039; 0.61-0.71)**</b>	<b>-10.75089</b>							
22			gender1:learn_materials			<b>-0.050 (0.020; 0.91-0.99)*</b>	<b>-2.468</b>	<b>-0.029 (0.025)</b>	<b>-1.13465</b>							
23			subject_guidelines1:gender1			<b>-0.115 (0.024; 0.85-0.94)***</b>	<b>-4.701</b>	<b>-0.112 (0.025; 0.85-0.94)***</b>	<b>-4.55237</b>							
24			grade_level10	0.042 (0.013; 1.02-1.07)**	3.191	0.030 (0.022; 0.99-1.08)	1.342	0.031 (0.023; 0.99-1.08)	1.37227							
25			grade_level6	0.027 (0.011; 1.01-1.05)*	2.525	0.025 (0.012; 1.00-1.05)*	2.064	0.027 (0.012; 1.00-1.05)*	2.19135							
26			grade_level7	0.004 (0.011; 0.98-1.03)	0.416	-0.001 (0.018; 0.97-1.03)	-0.031	0.002 (0.019; 0.97-1.04)	0.09888							
27			grade_level8	-0.012 (0.013; 0.96-1.01)	-0.931	-0.013 (0.013; 0.96-1.01)	-0.995	0.003 (0.015; 0.97-1.03)	0.16755							
28			grade_level9	-0.001 (0.013; 0.97-1.03)	-0.074	-0.004 (0.014; 0.97-1.02)	-0.263	0.009 (0.016; 0.98-1.04)	0.56562							
29			year_quarter2020Q4	0.309 (0.015; 1.32-1.40)***	21.01	0.308 (0.015; 1.32-1.40)***	20.967	0.309 (0.015; 1.32-1.40)***	21.07374							
30			year_quarter2021Q1	0.424 (0.015; 1.48-1.57)***	28.615	0.423 (0.015; 1.48-1.57)***	28.541	0.424 (0.015; 1.48-1.57)***	28.73742							
31			year_quarter2021Q2	0.354 (0.016; 1.38-1.47)***	22.671	0.352 (0.016; 1.38-1.47)***	22.576	0.354 (0.016; 1.38-1.47)***	22.79302							
32			year_quarter2021Q3	0.407 (0.016; 1.45-1.55)***	24.952	0.409 (0.017; 1.46-1.56)***	23.47	0.414 (0.017; 1.46-1.57)***	23.88525							
33			year_quarter2021Q4	0.793 (0.017; 2.14-2.28)***	47.571	0.795 (0.018; 2.14-2.29)***	44.77	0.803 (0.018; 2.16-2.31)***	45.61251							
34			year_quarter2022Q1	1.296 (0.017; 3.53-3.78)***	74.637	1.298 (0.018; 3.53-3.80)***	70.562	1.311 (0.018; 3.58-3.85)***	72.08462							
35			year_quarter2022Q2	0.232 (0.020; 1.21-1.31)***	11.543	0.233 (0.021; 1.21-1.32)***	11.128	0.243 (0.021; 1.22-1.33)***	11.73734							
36			grade_level10:gender1	0.669 (0.015; 1.89-2.01)***	43.273	0.573 (0.030; 1.67-1.88)***	19.278	0.567 (0.032; 1.66-1.88)***	17.78252							
37			grade_level6:gender1	0.079 (0.016; 1.05-1.12)***	4.859	0.060 (0.018; 1.02-1.10)***	3.312	0.071 (0.018; 1.03-1.11)***	3.81891							
38			grade_level7:gender1	0.200 (0.016; 1.18-1.26)***	12.37	0.149 (0.026; 1.10-1.22)***	5.723	0.185 (0.028; 1.14-1.27)***	6.67056							
39			grade_level8:gender1	0.413 (0.016; 1.47-1.56)***	26.004	0.413 (0.016; 1.47-1.56)***	25.979	0.419 (0.021; 1.46-1.58)***	20.10139							
40			grade_level9:gender1	0.596 (0.016; 1.76-1.87)***	38.084	0.577 (0.018; 1.72-1.84)***	32.758	0.575 (0.021; 1.70-1.85)***	26.96472							
41			gender1:year_quarter2020Q4	0.080 (0.022; 1.04-1.13)***	3.723	0.080 (0.022; 1.04-1.13)***	3.715	0.080 (0.022; 1.04-1.13)***	3.69759							
42			gender1:year_quarter2021Q1	0.170 (0.021; 1.14-1.23)***	8.099	0.169 (0.021; 1.14-1.23)***	8.078	0.169 (0.021; 1.14-1.23)***	8.05439							
43			gender1:year_quarter2021Q2	0.247 (0.021; 1.23-1.33)***	11.753	0.247 (0.021; 1.23-1.33)***	11.715	0.246 (0.021; 1.23-1.33)***	11.68047							
44			gender1:year_quarter2021Q3	0.145 (0.021; 1.11-1.20)***	6.906	0.187 (0.023; 1.15-1.26)***	8.104	0.186 (0.023; 1.15-1.26)***	8.00704							
45			gender1:year_quarter2021Q4	0.195 (0.020; 1.17-1.26)***	9.892	0.237 (0.022; 1.21-1.32)***	10.783	0.234 (0.022; 1.21-1.32)***	10.59079							
46			gender1:year_quarter2022Q1	0.179 (0.019; 1.15-1.24)***	9.547	0.221 (0.021; 1.20-1.30)***	10.442	0.216 (0.021; 1.19-1.29)***	10.14332							
47			gender1:year_quarter2022Q2	0.164 (0.021; 1.13-1.23)***	7.664	0.205 (0.023; 1.17-1.29)***	8.743	0.201 (0.024; 1.17-1.28)***	8.49385							
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Results from models converted to Odds Ratios with corresponding Confidence Intervals, given as OR (CI)

	MODEL 1	MODEL 2	MODEL 3	MODEL 3 - Covid	MODEL 3 - Municipality	Model 4	Model 5	Model 6	Model 7	Model 7 - Covid	Model 7 - Municipality	Model 8	Model 9	Model 10
Baseline mental health service use (intercept)	0.03 (0.03-0.03)***	0.04 (0.03-0.04)***	0.04 (0.03-0.04)***	0.03 (0.03-0.04)***	0.04 (0.03-0.04)***	0.03 (0.03-0.03)***	0.03 (0.03-0.03)***	0.03 (0.03-0.03)***	0.03 (0.03-0.03)***	0.03 (0.03-0.03)***	0.03 (0.03-0.03)***	0.04 (0.04-0.04)***	0.04 (0.04-0.04)***	0.04 (0.04-0.04)***
learn_materials1	NA	0.97 (0.95-0.99)***	0.97 (0.94-0.99)***	0.97 (0.95-1.00)*	0.93 (0.90-0.96)***	NA	NA	NA	NA	NA	NA	NA	1.00 (0.97-1.02)	0.98 (0.95-1.02)
subject_guidelines1	NA	0.93 (0.90-0.95)***	0.92 (0.90-0.94)***	0.94 (0.92-0.96)***	0.92 (0.90-0.94)***	NA	0.92 (0.90-0.94)***	0.93 (0.91-0.95)***	0.93 (0.91-0.95)***	0.96 (0.94-0.98)***	0.93 (0.91-0.95)***	NA	0.98 (0.95-1.02)	0.98 (0.94-1.01)
avg_time_with_learn_materials	NA	NA	NA	NA	NA	NA	1.00 (0.99-1.01)	1.02 (1.00-1.03)*	1.01 (0.99-1.04)	1.03 (1.01-1.06)*	0.95 (0.92-0.98)**	NA	NA	NA
avg_time_with_learn_materials_squared	NA	NA	NA	NA	NA	NA	0.99 (0.99-1.00)*	1.00 (0.99-1.00)	1.00 (0.99-1.00)	0.99 (0.98-1.00)**	1.02 (1.01-1.03)***	NA	NA	NA
gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.59 (0.57-0.61)***	0.68 (0.63-0.73)***	0.66 (0.61-0.71)***
gender1:learn_materials	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.95 (0.91-0.99)*	0.97 (0.92-1.02)
subject_guidelines1:gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.89 (0.85-0.94)***	0.89 (0.85-0.94)***
avg_gender_centered	0.81 (0.77-0.86)***	0.81 (0.77-0.86)***	0.78 (0.73-0.83)***	0.78 (0.73-0.83)***	0.82 (0.77-0.87)***	0.82 (0.79-0.86)***	0.82 (0.79-0.86)***	0.82 (0.79-0.86)***	0.82 (0.79-0.86)***	0.78 (0.75-0.82)***	0.78 (0.74-0.82)***	0.81 (0.77-0.85)***	NA	NA
grade_level10	1.44 (1.41-1.47)***	1.35 (1.31-1.40)***	1.35 (1.30-1.39)***	1.37 (1.32-1.42)***	1.37 (1.33-1.42)***	1.42 (1.39-1.44)***	1.39 (1.36-1.41)***	1.40 (1.37-1.43)***	1.40 (1.37-1.43)***	1.43 (1.40-1.46)***	1.44 (1.41-1.47)***	1.04 (1.02-1.07)**	1.03 (0.99-1.08)	1.03 (0.99-1.08)
grade_level6	1.06 (1.04-1.08)***	1.05 (1.03-1.07)***	1.06 (1.04-1.08)***	1.06 (1.04-1.08)***	1.05 (1.04-1.07)***	1.06 (1.05-1.08)***	1.06 (1.05-1.08)***	1.06 (1.05-1.08)***	1.06 (1.05-1.08)***	1.06 (1.05-1.07)***	1.06 (1.05-1.08)***	1.03 (1.01-1.05)*	1.03 (1.00-1.05)*	1.03 (1.00-1.05)*
grade_level7	1.09 (1.08-1.11)***	1.06 (1.04-1.09)***	1.08 (1.05-1.11)***	1.08 (1.05-1.11)***	1.08 (1.05-1.11)***	1.10 (1.09-1.12)***	1.10 (1.09-1.12)***	1.11 (1.10-1.13)***	1.12 (1.10-1.13)***	1.12 (1.10-1.14)***	1.12 (1.11-1.14)***	1.00 (0.98-1.03)	1.00 (0.97-1.04)	1.00 (0.97-1.04)
grade_level8	1.19 (1.17-1.22)***	1.19 (1.16-1.22)***	1.21 (1.18-1.24)***	1.21 (1.18-1.24)***	1.22 (1.20-1.25)***	1.19 (1.16-1.21)***	1.18 (1.16-1.21)***	1.19 (1.17-1.21)***	1.19 (1.17-1.21)***	1.19 (1.17-1.21)***	1.19 (1.17-1.21)***	0.99 (0.96-1.01)	0.99 (0.96-1.01)	1.00 (0.97-1.03)
grade_level9	1.32 (1.30-1.35)***	1.31 (1.28-1.34)***	1.32 (1.29-1.35)***	1.32 (1.29-1.35)***	1.33 (1.30-1.36)***	1.32 (1.30-1.34)***	1.32 (1.30-1.34)***	1.32 (1.30-1.34)***	1.32 (1.30-1.34)***	1.32 (1.30-1.35)***	1.32 (1.30-1.35)***	1.34 (1.32-1.37)***	1.00 (0.97-1.03)	1.00 (0.97-1.02)
year_quarter2020Q4	1.41 (1.38-1.44)***	1.41 (1.38-1.44)***	1.41 (1.38-1.44)***	1.41 (1.38-1.44)***	1.38 (1.35-1.42)***	1.42 (1.39-1.45)***	1.42 (1.39-1.45)***	1.42 (1.39-1.45)***	1.41 (1.39-1.45)***	1.42 (1.39-1.45)***	1.42 (1.39-1.45)***	1.36 (1.32-1.40)***	1.36 (1.32-1.40)***	1.36 (1.32-1.40)***
year_quarter2021Q1	1.65 (1.62-1.69)***	1.65 (1.61-1.69)***	1.65 (1.61-1.69)***	1.64 (1.60-1.67)***	1.59 (1.55-1.63)***	1.68 (1.64-1.71)***	1.68 (1.64-1.71)***	1.67 (1.64-1.71)***	1.67 (1.63-1.70)***	1.68 (1.64-1.72)***	1.69 (1.65-1.73)***	1.53 (1.48-1.57)***	1.53 (1.48-1.57)***	1.53 (1.48-1.57)***
year_quarter2021Q2	1.60 (1.56-1.64)***	1.60 (1.56-1.64)***	1.60 (1.56-1.64)***	1.58 (1.54-1.62)***	1.51 (1.46-1.56)***	1.65 (1.61-1.68)***	1.65 (1.61-1.68)***	1.64 (1.61-1.68)***	1.63 (1.60-1.67)***	1.64 (1.61-1.68)***	1.67 (1.63-1.71)***	1.42 (1.38-1.47)***	1.42 (1.38-1.47)***	1.42 (1.38-1.47)***
year_quarter2021Q3	1.60 (1.56-1.65)***	1.64 (1.60-1.69)***	1.65 (1.60-1.69)***	1.60 (1.56-1.65)***	1.53 (1.46-1.59)***	1.69 (1.65-1.72)***	1.71 (1.67-1.75)***	1.70 (1.66-1.74)***	1.69 (1.65-1.73)***	1.68 (1.64-1.72)***	1.73 (1.69-1.78)***	1.50 (1.45-1.55)***	1.51 (1.46-1.56)***	1.51 (1.46-1.57)***
year_quarter2021Q4	2.42 (2.35-2.49)***	2.47 (2.40-2.54)***	2.48 (2.41-2.55)***	2.41 (2.34-2.48)***	2.27 (2.15-2.39)***	2.60 (2.55-2.66)***	2.64 (2.58-2.70)***	2.62 (2.57-2.68)***	2.60 (2.54-2.66)***	2.42 (2.36-2.48)***	2.69 (2.62-2.76)***	2.21 (2.14-2.28)***	2.21 (2.14-2.29)***	2.23 (2.16-2.31)***
year_quarter2022Q1	3.97 (3.85-4.09)***	0.00 (3.92-4.17)***	4.08 (3.96-4.21)***	4.03 (3.91-4.14)***	3.65 (3.44-3.88)***	4.38 (4.28-4.47)***	4.44 (4.34-4.53)***	4.41 (4.31-4.51)***	4.36 (4.26-4.47)***	4.15 (4.05-4.26)***	4.55 (4.43-4.68)***	3.66 (3.53-3.78)***	3.66 (3.53-3.80)***	3.71 (3.58-3.85)***
year_quarter2022Q2	1.36 (1.31-1.41)***	0.00 (1.34-1.44)***	1.40 (1.35-1.45)***	1.40 (1.36-1.45)***	1.23 (1.15-1.32)***	1.57 (1.53-1.60)***	1.59 (1.55-1.63)***	1.58 (1.54-1.62)***	1.55 (1.51-1.60)***	1.50 (1.46-1.54)***	1.63 (1.58-1.69)***	1.26 (1.21-1.31)***	1.26 (1.21-1.32)***	1.28 (1.22-1.33)***
year_quarter2022Q3	NA	NA	NA	NA	NA	1.16 (1.13-1.19)***	1.17 (1.14-1.20)***	1.16 (1.13-1.20)***	1.15 (1.11-1.18)***	1.12 (1.09-1.15)***	1.22 (1.18-1.26)***	NA	NA	NA
year_quarter2022Q4	NA	NA	NA	NA	NA	1.47 (1.43-1.51)***	1.49 (1.45-1.53)***	1.48 (1.44-1.52)***	1.46 (1.42-1.51)***	1.44 (1.40-1.48)***	1.56 (1.51-1.62)***	NA	NA	NA
year_quarter2023Q1	NA	NA	NA	NA	NA	1.67 (1.63-1.72)***	1.70 (1.65-1.75)***	1.69 (1.64-1.74)***	1.66 (1.61-1.72)***	1.65 (1.60-1.70)***	1.80 (1.73-1.87)***	NA	NA	NA
year_quarter2023Q2	NA	NA	NA	NA	NA	1.56 (1.52-1.61)***	1.58 (1.54-1.63)***	1.58 (1.53-1.62)***	1.56 (1.50-1.61)***	1.55 (1.50-1.60)***	1.69 (1.62-1.77)***	NA	NA	NA
year_quarter2023Q3	NA	NA	NA	NA	NA	1.22 (1.18-1.25)***	1.23 (1.19-1.27)***	1.20 (1.16-1.25)***	1.20 (1.16-1.25)***	1.20 (1.16-1.25)***	1.32 (1.26-1.38)***	NA	NA	NA
year_quarter2023Q4	NA	NA	NA	NA	NA	1.56 (1.51-1.61)***	1.58 (1.53-1.63)***	1.57 (1.52-1.62)***	1.54 (1.49-1.60)***	1.50 (1.44-1.60)***	1.70 (1.62-1.79)***	NA	NA	NA
grade_level10:gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.95 (1.89-2.01)***	1.77 (1.67-1.88)***	1.76 (1.66-1.88)***
grade_level6:gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.08 (1.05-1.12)***	1.06 (1.02-1.10)***	1.07 (1.03-1.11)***
grade_level7:gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.22 (1.18-1.26)***	1.16 (1.10-1.22)***	1.20 (1.14-1.27)***
grade_level8:gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.51 (1.47-1.56)***	1.51 (1.47-1.56)***	1.52 (1.46-1.58)***
grade_level9:gender1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.82 (1.76-1.87)***	1.78 (1.72-1.84)***	1.78 (1.70-1.85)***
gender1:year_quarter2020Q4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.08 (1.04-1.13)***	1.08 (1.04-1.13)***	1.08 (1.04-1.13)***
gender1:year_quarter2021Q1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.18 (1.14-1.23)***	1.18 (1.14-1.23)***	1.18 (1.14-1.23)***
gender1:year_quarter2021Q2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.28 (1.23-1.33)***	1.28 (1.23-1.33)***	1.28 (1.23-1.33)***
gender1:year_quarter2021Q3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.16 (1.11-1.20)***	1.21 (1.15-1.26)***	1.20 (1.15-1.26)***
gender1:year_quarter2021Q4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.22 (1.17-1.26)***	1.27 (1.21-1.32)***	1.26 (1.21-1.32)***
gender1:year_quarter2022Q1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.20 (1.15-1.24)***	1.25 (1.20-1.30)***	1.24 (1.19-1.29)***
gender1:year_quarter2022Q2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.18 (1.13-1.23)***	1.23 (1.17-1.29)***	1.22 (1.17-1.28)***

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B27 fx t11 school\_ID.time\_quarter

Main data table with columns A-R and rows 1-55. Contains statistical results for 'Effects of Learning Materials' and 'Effects of Average Time with Learning Materials (TWLM)'. Includes variance, standard deviation, correlations, and covariances for various models and interactions.

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Model		Variance	Std. Dev														
13		$\tau_{11}$ school_ID.kern_materials	0.121	0.348	-0.157	-0.050	-0.041		-0.045	-0.006	-0.008							-0.374007467
14		$\tau_{11}$ school_ID.kern_materials Covid-Adjusted											0.378	3.290	0.115037997	0.320	0.037	
15	3.V3 Learning materials-by-school interaction, adjusted for municipality	$\tau_{00}$ school_ID	0.272	0.521														
16		$\tau_{11}$ school_ID.time_quarter	0.041	0.203	-0.710				-0.075									
17		$\tau_{11}$ school_ID.kern_materials	0.115	0.339	-0.263	-0.133			-0.046	-0.009			0.122	3.411	0.035621317	0.947	0.034	-0.262736953
18		$\tau_{00}$ municipality_ID	0.076	0.275														
19		$\tau_{11}$ municipality_ID.time_quarter	0.091	0.302	-0.553				-0.046									
20		$\tau_{11}$ municipality_ID.kern_materials	0.004	0.061	-0.001	0.770			0.000	0.014			0.318	3.608	0.088072351	0.012	0.001	-0.001306164
21	Effects of Average Time with Learning Materials (TWLM)																	
22	4. Base: changes overtime and between grades	$\tau_{00}$ school_ID	0.327	0.571														
23		$\tau_{11}$ school_ID.time_quarter	0.021	0.144	-0.490													
24	5. Average effect of TWLM (linear)	$\tau_{00}$ school_ID	0.328	0.572														
25		$\tau_{11}$ school_ID.time_quarter	0.021	0.144	-0.490													
26	6. Average effect of TWLM (linear and squared)	$\tau_{00}$ school_ID	0.328	0.572														
27		$\tau_{11}$ school_ID.time_quarter	0.021	0.144	-0.490													
28	7. TWLM-by-school interaction	$\tau_{00}$ school_ID	0.331	0.575														
29		$\tau_{11}$ school_ID.time_quarter	0.035	0.186	-0.470				-0.050									
30		$\tau_{11}$ school_ID.TWLM.linear	0.144	0.380	-0.010	-0.310			-0.002	-0.022								-0.01
31		$\tau_{11}$ school_ID.TWLM.squared	0.013	0.113	0.080	-0.020	-0.870		0.005	0.000	-0.037							0.08
32		TWLM linear + squared											0.184	3.473	0.052847894	0.449	0.024	
33	7.V2 TWLM-by-school interaction, adjusted for Covid-19	$\tau_{00}$ school_ID	0.833	0.913														
34		$\tau_{11}$ school_ID.time_quarter	0.100	0.316	-0.800				-0.231									
35		$\tau_{11}$ school_ID.Covid19	0.326	0.571	-0.790	0.820			-0.412	0.148								
36		$\tau_{11}$ school_ID.TWLM.linear	0.131	0.362	0.030	-0.240	-0.100		0.010	-0.027	-0.021							0.030
37		$\tau_{11}$ school_ID.TWLM.squared	0.010	0.101	-0.020	0.080	0.170	-0.860	-0.002	0.003	0.010	-0.032						-0.020
38		School TWLM linear + squared Covid-Adjusted											0.241	3.531	0.068	0.325	0.022	
39	7.V3 TWLM-by-school interaction, adjusted for municipality	$\tau_{00}$ school_ID	0.197	0.444														
40		$\tau_{11}$ school_ID.time_quarter	0.028	0.169	-0.500				-0.037									
41		$\tau_{11}$ school_ID.TWLM.linear	0.131	0.362	-0.170	-0.220			-0.027	-0.013								-0.170
42		$\tau_{11}$ school_ID.TWLM.squared	0.010	0.102	0.390	-0.190	-0.880		0.018	-0.003	-0.033							0.390
43		School TWLM linear + squared											0.111	3.401	0.033	0.690	0.022	
44		$\tau_{00}$ municipality_ID	0.115	0.340														
45		$\tau_{11}$ municipality_ID.time_quarter	0.004	0.059	-0.700				-0.014									
46		$\tau_{11}$ municipality_ID.TWLM.linear	0.013	0.112	0.910	-0.940			0.035	-0.006								0.910
47		$\tau_{11}$ municipality_ID.TWLM.squared	0.002	0.045	-0.890	0.880	-0.960		-0.014	0.002	-0.005							-0.890
48		Mun. TWLM linear + squared											0.101	3.391	0.030	0.048	0.001	
49	Gender Differences in Effects of Learning Materials																	
50	8. Base: interaction between gender and time, and gender and grade	$\tau_{00}$ school_ID	0.338	0.582														
51		$\tau_{11}$ school_ID.time_quarter	0.125	0.353	-0.540													
52	9. Interaction between learning materials and gender	$\tau_{00}$ school_ID	0.339	0.582														
53		$\tau_{11}$ school_ID.time_quarter	0.124	0.352	-0.540													
54	10. Interaction between learning materials and gender by school	$\tau_{00}$ school_ID	0.412	0.642														
55		$\tau_{11}$ school_ID.time_quarter	0.115	0.338	-0.460				-0.100									
56		$\tau_{11}$ school_ID.kern_materials	0.219	0.468	-0.370	-0.010			-0.111	-0.002								
57		$\tau_{11}$ school_ID.gender	0.235	0.485	-0.390	-0.010	0.470		-0.121	-0.002								
58		$\tau_{11}$ school_ID.kern_materials:gender	0.361	0.601	0.260	0.050	-0.690		0.100	0.010	-0.201							0.26
59		$\tau_{11}$ school_ID.kern_materials:gender: male											0.464	3.754	0.123653458	0.778	0.096	
60		$\tau_{11}$ school_ID.kern_materials:gender: female											0.647045558	3.936913692	0.164353503	0.558	0.092	

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	A	B	C	D	E	F	G	H	I	J	K
1	Model	nobs	nschools	AIC	BIC	logLik	deviance	Df.residual			
2	Model 3_0 Empty	70424	2443	243469.7	243790.4	-121699.9	243399.7	70389			
3	Model 3A School Type	70424	2443	244123.5	244361.7	-122035.7	244071.5	70398			
4	Model 3B Teachers per Student	70424	2443	244000.8	244220.7	-121976.4	243952.8	70400			
5	Model 3C School Size (Deciles)	70424	2443	244118.6	244338.5	-122035.3	244070.6	70400			
6	Model 3D Average Teacher Education	70424	2443	244140.1	244360.0	-122046.1	244092.1	70400			
7	Model 3E Average Teacher Age	70424	2443	244105.1	244325.0	-122028.6	244057.1	70400			
8	Model 3F Assistants to Non-Assistants Ratio	70424	2443	244028.1	244247.9	-121990.0	243980.1	70400			
9	Model 3G Special Education to Non-Special Education Ratio	70424	2443	243650.0	243869.9	-121801.0	243602.0	70400			
10	Model 3H Females to Male Teachers Ratio	70424	2443	244139.0	244358.9	-122045.5	244091.0	70400			
11	Model 3I Any Asylum Seekers	70424	2443	244147.1	244367.0	-122049.5	244099.1	70400			
12	Model 3J Any New Norwegian Education	70424	2443	244145.3	244365.2	-122048.7	244097.3	70400			
13	Model 3K Any Mother Tongue or Bilingual Education	70424	2443	244146.3	244366.2	-122049.1	244098.3	70400			
14	Model 3L Any Tailored Education	70424	2443	244146.7	244366.6	-122049.4	244098.7	70400			
15	Model 3M Multivariate Model with all variables from Model 3A to 3L	70424	2443	243456.7	243896.5	-121680.4	243360.7	70376			
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	A	B	C	D	E	F	G	H	I
1		Pairwise Associations		Multivariate Associations		Pairwise Associations		Multivariate Associations	
2		Main Effects (School Structure) β (CI)	Interaction with Learning Materials β (CI)	Main Effects (School Structure) β (CI)	Interaction with Learning Materials β (CI)	Main Effects (School Structure) OR (CI)	Interaction with Learning Materials OR (CI)	Main Effects (School Structure) OR (CI)	Interaction with Learning Materials OR (CI)
3	School type combined (ref category: primary school)	-0.004 (-0.054 - 0.046)	-0.062** (-0.109 - -0.016)	-0.088*** (-0.138 - -0.038)	-0.089*** (-0.140 - -0.038)	0.996 (0.947 - 1.047)	0.940** (0.897 - 0.985)	0.916*** (0.871 - 0.962)	0.915*** (0.869 - 0.963)
4	School type secondary (ref category: primary school)	0.112*** (0.057 - 0.167)	-0.078** (-0.128 - -0.029)	0.043 (-0.030 - 0.115)	-0.134*** (-0.208 - -0.060)	1.118*** (1.059 - 1.181)	0.925** (0.880 - 0.971)	1.044 (0.970 - 1.122)	0.875*** (0.812 - 0.942)
5	Teacher per student ratio	1.355*** (1.121 - 1.589)	0.015 (-0.244 - 0.274)	0.912*** (0.599 - 1.225)	0.264 (-0.102 - 0.629)	3.875*** (3.067 - 4.897)	1.015 (0.784 - 1.316)	2.489*** (1.820 - 3.404)	1.302 (0.903 - 1.875)
6	School size decile	0.015*** (0.007 - 0.022)	0.007 (0.000 - 0.014)	0.029*** (0.019 - 0.039)	0.019*** (0.009 - 0.030)	1.015*** (1.007 - 1.023)	1.007 (1.000 - 1.015)	1.030*** (1.020 - 1.040)	1.019*** (1.009 - 1.030)
7	Teacher education	-0.039 (-0.109 - 0.032)	-0.062 (-0.127 - 0.004)	-0.032 (-0.116 - 0.052)	-0.076 (-0.164 - 0.012)	0.962 (0.897 - 1.032)	0.940 (0.881 - 1.004)	0.969 (0.890 - 1.054)	0.927 (0.849 - 1.012)
8	Teacher age	-0.015*** (-0.021 - -0.008)	-0.008** (-0.014 - -0.002)	-0.011*** (-0.017 - -0.005)	-0.003 (-0.010 - 0.003)	0.986*** (0.979 - 0.992)	0.992** (0.986 - 0.998)	0.989*** (0.983 - 0.995)	0.997 (0.990 - 1.003)
9	Assistants to non assistants ratio	0.553*** (0.449 - 0.656)	-0.031 (-0.129 - 0.068)	0.228*** (0.116 - 0.341)	-0.122* (-0.239 - -0.005)	1.738*** (1.567 - 1.927)	0.970 (0.879 - 1.070)	1.257*** (1.123 - 1.406)	0.885* (0.787 - 0.995)
10	Special education to non-special education ratio	2.078*** (1.890 - 2.266)	-0.028 (-0.231 - 0.175)	1.700*** (1.468 - 1.933)	0.070 (-0.182 - 0.321)	7.989*** (6.619 - 9.642)	0.972 (0.794 - 1.191)	5.476*** (4.339 - 6.911)	1.072 (0.834 - 1.379)
11	Teacher gender (female to male ratio)	-0.265** (-0.454 - -0.076)	0.030 (-0.149 - 0.210)	-0.089 (-0.296 - 0.117)	-0.156 (-0.373 - 0.060)	0.767** (0.635 - 0.927)	1.031 (0.862 - 1.233)	0.914 (0.744 - 1.124)	0.855 (0.689 - 1.062)
12	Any asylum seekers	0.007 (-0.048 - 0.063)	-0.003 (-0.052 - 0.046)	-0.022 (-0.072 - 0.027)	-0.005 (-0.054 - 0.044)	1.007 (0.953 - 1.065)	0.997 (0.949 - 1.047)	0.978 (0.930 - 1.028)	0.995 (0.947 - 1.045)
13	Any New Norwegian	-0.011 (-0.081 - 0.059)	-0.063 (-0.167 - 0.041)	0.000 (-0.102 - 0.103)	-0.077 (-0.181 - 0.026)	0.989 (0.922 - 1.061)	0.939 (0.846 - 1.042)	1.000 (0.903 - 1.109)	0.925 (0.835 - 1.026)
14	Any mother tongue or bilingual education	0.013 (-0.026 - 0.053)	0.007 (-0.028 - 0.043)	0.010 (-0.030 - 0.049)	-0.019 (-0.058 - 0.020)	1.013 (0.974 - 1.054)	1.007 (0.972 - 1.044)	1.010 (0.971 - 1.050)	0.981 (0.944 - 1.021)
15	Any tailored education	-0.007 (-0.063 - 0.050)	0.017 (-0.033 - 0.067)	-0.023 (-0.075 - 0.030)	0.020 (-0.032 - 0.072)	0.993 (0.939 - 1.051)	1.017 (0.967 - 1.069)	0.978 (0.928 - 1.030)	1.020 (0.969 - 1.075)
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	A	B	C	D	E	F	G	H	I	J
1		<b>Model</b>	<b>Model structure variables included in addition to all other variables from Model 3_0</b>	<b>Note</b>						
2		Model 3_0	Empty model, all school structure variables included, no interaction with learning materials							
3		Model 3A	School type (Primary vs. Combined and Primary vs. Secondary School)							
4		Model 3B	Number of teachers per students							
5		Model 3C	School size (in deciles)							
6		Model 3D	Average level of teacher education	In models 3A-3L the given school structure variable is interacted with the learning materials variable to examine if school structural factors can explain some of the school-level variability in the effect of learning materials. In model 3M all school structure variables are interacted with the learning materials variable to see both how much of the variability between schools that they account for in total, as well as each variable's contribution when other school level variables have been accounted for.						
7		Model 3E	Average teacher age							
8		Model 3F	Ratio of assistants to non-assistants							
9		Model 3G	Ratio of special education hours to non-special education hours							
10		Model 3H	Ratio of female to male teachers							
11		Model 3I	Any asylumseekers							
12		Model 3J	Any New Norwegian education							
13		Model 3K	Any mother tongue or bilingual education							
14		Model 3L	Any tailored education							
15		Model 3M	All 12 school structure variables included, including interaction with learning materials							
16				Model 3_0	Model 3A	Model 3B	Model 3C	Model 3D	Model 3E	Model 3F
17		School ID	Standard deviation of intercepts	0.4745	0.5271	0.4995	0.5333	0.5247	0.5318	
18		School ID	Standard deviation of time quarter slopes	0.3317	0.3324	0.3313	0.3326	0.3323	0.3327	
19		School ID	Standard deviation of learning materials slopes	0.3302	0.33	0.3291	0.332	0.3303	0.3306	
20		School ID	Correlation between intercept and time quarter slopes	-0.61	-0.56	-0.56	-0.57	-0.56	-0.58	
21		School ID	Correlation between intercept and learning materials slopes	-0.3	-0.25	-0.27	-0.24	-0.26	-0.25	
22		School ID	Correlation between time quarter slopes and learning materials slopes	0.04	0.03	0.04	0.03	0.05	0.02	
23										
24			Baseline mental health service use (intercept)	-3.297*** (-3.345 - -3.249)	-3.350*** (-3.399 - -3.301)	-3.304*** (-3.349 - -3.259)	-3.329*** (-3.375 - -3.284)	-3.325*** (-3.370 - -3.280)	-3.328*** (-3.373 - -3.283)	-3.323*** (-3.368 - -3.278)
25			learn_materials1	-0.045*** (-0.071 - -0.020)	-0.011 (-0.045 - 0.023)	-0.049*** (-0.076 - -0.022)	-0.056*** (-0.084 - -0.029)	-0.045*** (-0.072 - -0.019)	-0.052*** (-0.078 - -0.026)	-0.049*** (-0.076 - -0.022)
26			subject_guidelines1	-0.079*** (-0.106 - -0.053)	-0.084*** (-0.110 - -0.058)	-0.083*** (-0.109 - -0.057)	-0.079*** (-0.105 - -0.053)	-0.083*** (-0.109 - -0.056)	-0.082*** (-0.108 - -0.055)	-0.082*** (-0.108 - -0.055)
27			avg_gender_centered	-0.192*** (-0.262 - -0.121)	-0.225*** (-0.296 - -0.155)	-0.212*** (-0.282 - -0.143)	-0.231*** (-0.302 - -0.161)	-0.225*** (-0.295 - -0.155)	-0.227*** (-0.297 - -0.156)	-0.222*** (-0.292 - -0.152)
28			grade_level10	0.296*** (0.260 - 0.331)	0.293*** (0.257 - 0.328)	0.317*** (0.282 - 0.351)	0.296*** (0.261 - 0.331)	0.307*** (0.272 - 0.342)	0.305*** (0.271 - 0.340)	0.314*** (0.279 - 0.349)
29			grade_level6	0.052*** (0.034 - 0.071)	0.058*** (0.039 - 0.076)	0.052*** (0.033 - 0.070)	0.051*** (0.032 - 0.069)	0.053*** (0.035 - 0.072)	0.052*** (0.034 - 0.071)	0.051*** (0.033 - 0.070)
30			grade_level7	0.079*** (0.051 - 0.106)	0.092*** (0.063 - 0.121)	0.077*** (0.049 - 0.105)	0.074*** (0.045 - 0.102)	0.081*** (0.053 - 0.109)	0.078*** (0.050 - 0.105)	0.076*** (0.048 - 0.104)
31			grade_level8	0.182*** (0.156 - 0.207)	0.194*** (0.167 - 0.221)	0.203*** (0.179 - 0.228)	0.176*** (0.151 - 0.201)	0.197*** (0.172 - 0.222)	0.192*** (0.167 - 0.216)	0.199*** (0.174 - 0.224)
32			grade_level9	0.262*** (0.236 - 0.288)	0.269*** (0.242 - 0.295)	0.284*** (0.259 - 0.308)	0.258*** (0.233 - 0.283)	0.276*** (0.251 - 0.301)	0.272*** (0.248 - 0.297)	0.280*** (0.255 - 0.305)
33			year_quarter2020Q4	0.346*** (0.324 - 0.368)	0.345*** (0.323 - 0.367)	0.344*** (0.322 - 0.366)	0.347*** (0.325 - 0.369)	0.345*** (0.323 - 0.367)	0.346*** (0.324 - 0.368)	0.345*** (0.323 - 0.367)
34			year_quarter2021Q1	0.502*** (0.480 - 0.525)	0.501*** (0.479 - 0.524)	0.498*** (0.476 - 0.521)	0.504*** (0.482 - 0.527)	0.501*** (0.478 - 0.523)	0.503*** (0.481 - 0.525)	0.500*** (0.478 - 0.522)
35			year_quarter2021Q2	0.473*** (0.449 - 0.497)	0.472*** (0.448 - 0.496)	0.467*** (0.443 - 0.491)	0.476*** (0.452 - 0.500)	0.471*** (0.447 - 0.495)	0.474*** (0.450 - 0.498)	0.470*** (0.446 - 0.494)
36			year_quarter2021Q3	0.496*** (0.468 - 0.523)	0.496*** (0.468 - 0.524)	0.489*** (0.461 - 0.517)	0.500*** (0.472 - 0.528)	0.494*** (0.467 - 0.522)	0.498*** (0.471 - 0.526)	0.493*** (0.466 - 0.520)
37			year_quarter2021Q4	0.914*** (0.885 - 0.943)	0.913*** (0.884 - 0.942)	0.905*** (0.876 - 0.934)	0.918*** (0.889 - 0.947)	0.911*** (0.882 - 0.941)	0.916*** (0.887 - 0.945)	0.910*** (0.881 - 0.939)
38			year_quarter2022Q1	1.415*** (1.384 - 1.446)	1.414*** (1.383 - 1.445)	1.404*** (1.373 - 1.436)	1.420*** (1.389 - 1.452)	1.412*** (1.381 - 1.443)	1.418*** (1.387 - 1.449)	1.410*** (1.379 - 1.441)
39			year_quarter2022Q2	0.338*** (0.303 - 0.374)	0.337*** (0.301 - 0.373)	0.326*** (0.290 - 0.362)	0.345*** (0.309 - 0.381)	0.335*** (0.299 - 0.371)	0.342*** (0.306 - 0.378)	0.333*** (0.297 - 0.369)
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Default

Normal Page Break Preview Page Layout Custom Views Show

Zoom 96% Zoom to 100% Zoom to Selection

New Window Arrange All Freeze Panes Split Hide Unhide

View Side by Side Synchronous Scrolling Reset Window Position

Switch Windows

Macros

P40 fx

	A	B	C	K	L	M	N	O	P	Q
1		<b>Model</b>	<b>ool structure variables included in addition to all other variables from Moc</b>							
2		Model 3_0	Empty model, all school structure variables included, no interaction with l							
3		Model 3A	School type (Primary vs. Combined and Primary vs. Secondary School)							
4		Model 3B	Number of teachers per students							
5		Model 3C	School size (in deciles)							
6		Model 3D	Average level of teacher education							
7		Model 3E	Average teacher age							
8		Model 3F	Ratio of assistants to non-assistants							
9		Model 3G	Ratio of special education hours to non-special education hours							
10		Model 3H	Ratio of female to male teachers							
11		Model 3I	Any asylumseekers							
12		Model 3J	Any New Norwegian education							
13		Model 3K	Any mother tongue or bilingual education							
14		Model 3L	Any tailored education							
15		Model 3M	All 12 school structure variables included, including interaction with learn							
16				Model 3G	Model 3H	Model 3I	Model 3J	Model 3K	Model 3L	Model 3M
17		School ID	Standard deviation of intercepts	0.4625	0.5257	0.5259	0.5259	0.5258	0.5258	0.5258
18		School ID	Standard deviation of time quarter slopes	0.3316	0.3324	0.3323	0.3324	0.3323	0.3323	0.3323
19		School ID	Standard deviation of learning materials slopes	0.3288	0.3311	0.331	0.3308	0.3311	0.331	0.331
20		School ID	Correlation between intercept and time quarter slopes	-0.55	-0.56	-0.56	-0.56	-0.56	-0.56	-0.56
21		School ID	Correlation between intercept and learning materials slopes	-0.28	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
22		School ID	Correlation between time quarter slopes and learning materials slopes	0.04	0.04	0.04	0.04	0.04	0.04	0.04
23										
24			Baseline mental health service use (intercept)	-3.313*** (-3.357 - -3.269)	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.316*** (-3.361 - -3.271)
25			learn_materials1	-0.047*** (-0.073 - -0.021)	-0.048*** (-0.074 - -0.022)	-0.049*** (-0.075 - -0.023)	-0.048*** (-0.074 - -0.022)	-0.049*** (-0.075 - -0.023)	-0.049*** (-0.075 - -0.023)	-0.003 (-0.038 - 0.032)
26			subject_guidelines1	-0.079*** (-0.105 - -0.052)	-0.080*** (-0.107 - -0.054)	-0.081*** (-0.107 - -0.055)	-0.081*** (-0.107 - -0.054)	-0.081*** (-0.107 - -0.055)	-0.081*** (-0.107 - -0.055)	-0.084*** (-0.110 - -0.058)
27			avg_gender_centered	-0.190*** (-0.260 - -0.120)	-0.225*** (-0.295 - -0.155)	-0.226*** (-0.296 - -0.156)	-0.227*** (-0.297 - -0.156)	-0.227*** (-0.297 - -0.156)	-0.226*** (-0.297 - -0.156)	-0.190*** (-0.260 - -0.120)
28			grade_level10	0.293*** (0.258 - 0.328)	0.298*** (0.263 - 0.333)	0.304*** (0.269 - 0.339)	0.304*** (0.269 - 0.339)	0.304*** (0.270 - 0.339)	0.304*** (0.269 - 0.339)	0.293*** (0.258 - 0.328)
29			grade_level6	0.052*** (0.034 - 0.071)	0.052*** (0.034 - 0.071)	0.052*** (0.033 - 0.070)	0.052*** (0.033 - 0.070)	0.052*** (0.033 - 0.070)	0.052*** (0.033 - 0.070)	0.058*** (0.033 - 0.083)
30			grade_level7	0.079*** (0.051 - 0.106)	0.078*** (0.050 - 0.106)	0.077*** (0.049 - 0.105)	0.077*** (0.049 - 0.104)	0.077*** (0.049 - 0.105)	0.077*** (0.049 - 0.105)	0.092*** (0.066 - 0.118)
31			grade_level8	0.179*** (0.154 - 0.203)	0.184*** (0.159 - 0.209)	0.189*** (0.165 - 0.214)	0.189*** (0.164 - 0.213)	0.189*** (0.165 - 0.214)	0.189*** (0.165 - 0.214)	0.195*** (0.169 - 0.221)
32			grade_level9	0.259*** (0.235 - 0.283)	0.264*** (0.239 - 0.289)	0.270*** (0.245 - 0.294)	0.270*** (0.245 - 0.294)	0.270*** (0.245 - 0.295)	0.270*** (0.245 - 0.294)	0.270*** (0.245 - 0.294)
33			year_quarter2020Q4	0.344*** (0.322 - 0.366)	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.346*** (0.324 - 0.368)
34			year_quarter2021Q1	0.498*** (0.476 - 0.520)	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.480 - 0.524)
35			year_quarter2021Q2	0.467*** (0.443 - 0.491)	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.473*** (0.449 - 0.507)
36			year_quarter2021Q3	0.488*** (0.460 - 0.515)	0.496*** (0.468 - 0.523)	0.495*** (0.468 - 0.523)	0.495*** (0.468 - 0.523)	0.496*** (0.468 - 0.523)	0.495*** (0.468 - 0.523)	0.497*** (0.469 - 0.525)
37			year_quarter2021Q4	0.903*** (0.874 - 0.932)	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.915*** (0.886 - 0.944)
38			year_quarter2022Q1	1.403*** (1.372 - 1.434)	1.414*** (1.383 - 1.445)	1.414*** (1.382 - 1.445)	1.414*** (1.382 - 1.445)	1.414*** (1.383 - 1.445)	1.414*** (1.383 - 1.445)	1.416*** (1.384 - 1.448)
39			year_quarter2022Q2	0.324*** (0.289 - 0.360)	0.337*** (0.302 - 0.373)	0.337*** (0.301 - 0.372)	0.337*** (0.301 - 0.372)	0.337*** (0.301 - 0.373)	0.337*** (0.301 - 0.373)	0.339*** (0.302 - 0.376)
40										
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Default

Normal Page Break Preview Page Layout Custom Views



Zoom 96% Zoom to 100% Zoom to Selection

New Window Arrange All Freeze Panes Unhide

Split View Side by Side Synchronous Scrolling Reset Window Position

Switch Windows

Macros

P40

	A	B	C	M	N	O	P	Q	R	S
1		<b>Model</b>	<b>ool structure variables included in addition to all other variables from Moc</b>							
2		Model 3_0	Empty model, all school structure variables included, no interaction with l							
3		Model 3A	School type (Primary vs. Combined and Primary vs. Secondary School)							
4		Model 3B	Number of teachers per students							
5		Model 3C	School size (in deciles)							
6		Model 3D	Average level of teacher education							
7		Model 3E	Average teacher age							
8		Model 3F	Ratio of assistants to non-assistants							
9		Model 3G	Ratio of special education hours to non-special education hours							
10		Model 3H	Ratio of female to male teachers							
11		Model 3I	Any asylumseekers							
12		Model 3J	Any New Norwegian education							
13		Model 3K	Any mother tongue or bilingual education							
14		Model 3L	Any tailored education							
15		Model 3M	All 12 school structure variables included, including interaction with learn							
16				Model 3I	Model 3J	Model 3K	Model 3L	Model 3M		
17		School ID	Standard deviation of intercepts	0.5257	0.5259	0.5259	0.5258	0.5258	0.4687	
18		School ID	Standard deviation of time quarter slopes	0.3324	0.3323	0.3324	0.3323	0.3323	0.3316	
19		School ID	Standard deviation of learning materials slopes	0.3311	0.331	0.3308	0.3311	0.331	0.326	
20		School ID	Correlation between intercept and time quarter slopes	-0.56	-0.56	-0.56	-0.56	-0.56	-0.6	
21		School ID	Correlation between intercept and learning materials slopes	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	
22		School ID	Correlation between time quarter slopes and learning materials slopes	0.04	0.04	0.04	0.04	0.04	-0.01	
23										
24			Baseline mental health service use (intercept)	.369 - 3.279	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.324*** (-3.369 - -3.279)	-3.316*** (-3.365 - -3.267)	
25			learn_materials1	.074 - -0.022	-0.049*** (-0.075 - -0.023)	-0.048*** (-0.074 - -0.022)	-0.049*** (-0.075 - -0.023)	-0.049*** (-0.075 - -0.023)	-0.058*** (-0.039 - 0.033)	
26			subject_guidelines1	.107 - -0.054	-0.081*** (-0.107 - -0.055)	-0.081*** (-0.107 - -0.054)	-0.081*** (-0.107 - -0.055)	-0.081*** (-0.107 - -0.055)	-0.084*** (-0.111 - -0.058)	
27			avg_gender_centered	.295 - -0.155	-0.226*** (-0.296 - -0.156)	-0.227*** (-0.297 - -0.156)	-0.227*** (-0.297 - -0.156)	-0.226*** (-0.297 - -0.156)	-0.190*** (-0.260 - -0.119)	
28			grade_level10	.63 - 0.333	0.304*** (0.269 - 0.339)	0.304*** (0.269 - 0.339)	0.304*** (0.270 - 0.339)	0.304*** (0.269 - 0.339)	0.293*** (0.257 - 0.328)	
29			grade_level6	.34 - 0.071	0.052*** (0.033 - 0.070)	0.052*** (0.033 - 0.070)	0.052*** (0.033 - 0.070)	0.052*** (0.033 - 0.070)	0.058*** (0.039 - 0.077)	
30			grade_level7	.50 - 0.106	0.077*** (0.049 - 0.105)	0.077*** (0.049 - 0.104)	0.077*** (0.049 - 0.105)	0.077*** (0.049 - 0.105)	0.092*** (0.063 - 0.121)	
31			grade_level8	.59 - 0.209	0.189*** (0.165 - 0.214)	0.189*** (0.164 - 0.213)	0.189*** (0.165 - 0.214)	0.189*** (0.165 - 0.214)	0.195*** (0.168 - 0.222)	
32			grade_level9	.39 - 0.289	0.270*** (0.245 - 0.294)	0.270*** (0.245 - 0.294)	0.270*** (0.245 - 0.295)	0.270*** (0.245 - 0.294)	0.270*** (0.244 - 0.296)	
33			year_quarter2020Q4	.23 - 0.367	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.345*** (0.323 - 0.367)	0.346*** (0.324 - 0.368)	
34			year_quarter2021Q1	.79 - 0.524	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.479 - 0.524)	0.502*** (0.480 - 0.524)	
35			year_quarter2021Q2	.48 - 0.496	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.472*** (0.448 - 0.496)	0.473*** (0.449 - 0.497)	
36			year_quarter2021Q3	.68 - 0.523	0.495*** (0.468 - 0.523)	0.495*** (0.468 - 0.523)	0.496*** (0.468 - 0.523)	0.495*** (0.468 - 0.523)	0.497*** (0.469 - 0.524)	
37			year_quarter2021Q4	.84 - 0.942	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.913*** (0.884 - 0.942)	0.915*** (0.886 - 0.944)	
38			year_quarter2022Q1	.83 - 1.445	1.414*** (1.382 - 1.445)	1.414*** (1.382 - 1.445)	1.414*** (1.383 - 1.445)	1.414*** (1.382 - 1.445)	1.416*** (1.385 - 1.447)	
39			year_quarter2022Q2	.02 - 0.373	0.337*** (0.301 - 0.372)	0.337*** (0.301 - 0.372)	0.337*** (0.301 - 0.373)	0.337*** (0.301 - 0.373)	0.339*** (0.304 - 0.375)	
40										
41										



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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
				MODEL 1			MODEL 2			MODEL 3			MODEL 4 - TWLM Linear Fixed			MODEL 5 - TWLM Linear + Squared Fixed		
1																		
2		School ID	Standard deviation of intercepts		0.31					0.56				0.56				0.56
3		School ID	Correlation between intercept and time quarter slopes		-0.41					-0.41				-0.41				-0.41
4		School ID	Correlation between intercept and Covid-19 slopes		-0.28					-0.26				-0.28				-0.28
5		School ID	Correlation between intercept and learning materials slopes	NA		NA				-0.17			NA			NA		NA
6		School ID	Correlation between intercept and TWLM linear slopes	NA		NA			NA				NA			NA		NA
7		School ID	Correlation between intercept and TWLM squared slopes	NA		NA			NA				NA			NA		NA
8		School ID	Correlation between time quarter slopes and Covid-19 slopes		0.51					0.54				0.51				0.51
9		School ID	Correlation between time quarter slopes and learning materials slopes	NA		NA				-0.32			NA			NA		NA
10		School ID	Correlation between time quarter slopes and TWLM linear slopes	NA		NA			NA				NA			NA		NA
11		School ID	Correlation between time quarter slopes and TWLM squared slopes	NA		NA			NA				NA			NA		NA
12		School ID	Correlation between Covid-19 slopes and learning materials slopes	NA		NA				-0.07			NA			NA		NA
13		School ID	Correlation between Covid-19 slopes and TWLM linear slopes	NA		NA			NA				NA			NA		NA
14		School ID	Correlation between Covid-19 slopes and TWLM squared slopes	NA		NA			NA				NA			NA		NA
15		School ID	Correlation between TWLM linear slopes and TWLM squared slopes	NA		NA			NA				NA			NA		NA
16		School ID	Standard deviation of time quarter slopes		0.02					0.14				0.15				0.15
17		School ID	Standard deviation of Covid-19 slopes		0.07					0.27				0.27				0.27
18	RANDOM EFFECTS	School ID	Standard deviation of learning materials slopes	NA		NA				0.35			NA			NA		NA
19		School ID	Standard deviation of TWLM linear slopes	NA		NA			NA				NA			NA		NA
20		School ID	Standard deviation of TWLM squared slopes	NA		NA			NA				NA			NA		NA

			Log-odds (SE)	OR (CI)	z-value	Log-odds (SE)	OR (CI)	z-value	Log-odds (SE)	OR (CI)	z-value	Log-odds (SE)	OR (CI)	z-value	Log-odds (SE)	OR (CI)	z-value
21																	
22		Baseline mental health service use (intercept)	-3.072 (0.013)***	0.05 (0.05-0.05)	-234.998	-3.074 (0.013)***	0.05 (0.05-0.05)	-235	-3.074 (0.013)***	0.05 (0.05-0.05)	-234.528	-3.071 (0.013)***	0.05 (0.05-0.05)	-234.743	-3.074 (0.013)***	0.05 (0.05-0.05)	-234.3
23	FIXED EFFECTS	learn materials [1]	NA	NA	NA	0.014 (0.005)**	1.01 (1.00-1.02)	2.701	-0.007 (0.010)	0.99 (0.97-1.01)	-0.724	NA	NA	NA	NA	NA	NA
24		avg time with learn materials	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 (0.003)	1.00 (1.00-1.01)	1.132	0.034 (0.007)***	1.03 (1.02-1.05)	4.98
25		avg time with learn materials squared	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.012 (0.002)***	0.99 (0.98-0.99)	-4.92
26		subject guidelines [1]	NA	NA	NA	0.003 (0.010)	1.00 (0.98-1.02)	0.35	-0.001 (0.010)	1.00 (0.98-1.02)	-0.07	0.006 (0.010)	1.01 (0.99-1.03)	0.62	0.005 (0.010)	1.01 (0.99-1.02)	0.48
27		avg gender centered	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.557	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.6	-0.275 (0.015)***	0.76 (0.74-0.78)	-18.06	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.558	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.52
28		grade level [10]	0.386 (0.006)***	1.47 (1.45-1.49)	64.606	0.391 (0.006)***	1.48 (1.46-1.50)	62.5	0.390 (0.006)***	1.48 (1.46-1.49)	62.336	0.387 (0.006)***	1.47 (1.46-1.49)	63.401	0.393 (0.006)***	1.48 (1.46-1.50)	63.1
29		grade level [6]	0.040 (0.004)***	1.04 (1.03-1.05)	9.148	0.041 (0.004)***	1.04 (1.03-1.05)	9.43	0.041 (0.004)***	1.04 (1.03-1.05)	9.432	0.039 (0.004)***	1.04 (1.03-1.05)	8.85	0.039 (0.004)***	1.04 (1.03-1.05)	8.81
30		grade level [7]	0.066 (0.004)***	1.07 (1.06-1.08)	15.23	0.070 (0.005)***	1.07 (1.06-1.08)	15.24	0.069 (0.005)***	1.07 (1.06-1.08)	14.644	0.065 (0.004)***	1.07 (1.06-1.08)	15.08	0.072 (0.005)***	1.07 (1.06-1.09)	15.85
31		grade level [8]	0.151 (0.006)***	1.16 (1.15-1.18)	25.077	0.151 (0.006)***	1.16 (1.15-1.18)	25.07	0.150 (0.006)***	1.16 (1.15-1.18)	24.558	0.151 (0.006)***	1.16 (1.15-1.18)	24.952	0.153 (0.006)***	1.17 (1.15-1.18)	25.20
32		grade level [9]	0.277 (0.006)***	1.32 (1.30-1.33)	46.342	0.278 (0.006)***	1.32 (1.31-1.34)	46.38	0.278 (0.006)***	1.32 (1.31-1.34)	46.104	0.276 (0.006)***	1.32 (1.30-1.33)	45.931	0.276 (0.006)***	1.32 (1.30-1.33)	45.87
33		year quarter [2015Q2]	0.001 (0.010)	1.00 (0.98-1.02)	0.109	0.001 (0.010)	1.00 (0.98-1.02)	0.108	0.001 (0.010)	1.00 (0.98-1.02)	0.111	0.001 (0.010)	1.00 (0.98-1.02)	0.109	0.001 (0.010)	1.00 (0.98-1.02)	0.11
34		year quarter [2015Q3]	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.244	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.24	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.245	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.241	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.20
35		year quarter [2015Q4]	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.116	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.12	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.115	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.113	-0.054 (0.011)***	0.95 (0.93-0.97)	-5.10
36		year quarter [2016Q1]	0.042 (0.010)***	1.04 (1.02-1.06)	4.076	0.042 (0.010)***	1.04 (1.02-1.06)	4.076	0.042 (0.010)***	1.04 (1.02-1.06)	4.077	0.042 (0.010)***	1.04 (1.02-1.06)	4.074	0.042 (0.010)***	1.04 (1.02-1.06)	4.06
37		year quarter [2016Q2]	0.071 (0.010)***	1.07 (1.05-1.09)	6.935	0.071 (0.010)***	1.07 (1.05-1.09)	6.937	0.071 (0.010)***	1.07 (1.05-1.09)	6.935	0.071 (0.010)***	1.07 (1.05-1.09)	6.933	0.071 (0.010)***	1.07 (1.05-1.09)	6.91
38		year quarter [2016Q3]	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.894	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.9	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.886	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.884	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.85
39		year quarter [2016Q4]	0.030 (0.010)***	1.03 (1.01-1.05)	2.902	0.030 (0.010)***	1.03 (1.01-1.05)	2.903	0.030 (0.010)***	1.03 (1.01-1.05)	2.908	0.030 (0.010)***	1.03 (1.01-1.05)	2.901	0.030 (0.010)***	1.03 (1.01-1.05)	2.89
40		year quarter [2017Q1]	0.270 (0.010)***	1.31 (1.28-1.34)	27.468	0.270 (0.010)***	1.31 (1.28-1.34)	27.49	0.270 (0.010)***	1.31 (1.28-1.34)	27.471	0.270 (0.010)***	1.31 (1.28-1.34)	27.456	0.270 (0.010)***	1.31 (1.28-1.34)	27.4
41		year quarter [2017Q2]	0.141 (0.010)***	1.15 (1.13-1.17)	13.984	0.141 (0.010)***	1.15 (1.13-1.17)	14	0.141 (0.010)***	1.15 (1.13-1.17)	13.99	0.141 (0.010)***	1.15 (1.13-1.17)	13.979	0.141 (0.010)***	1.15 (1.13-1.17)	13.95
42		year quarter [2017Q3]	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.327	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.33	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.322	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.325	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.30
43		year quarter [2017Q4]	0.108 (0.010)***	1.11 (1.09-1.14)	10.655	0.108 (0.010)***	1.11 (1.09-1.14)	10.66	0.108 (0.010)***	1.11 (1.09-1.14)	10.66	0.108 (0.010)***	1.11 (1.09-1.14)	10.65	0.108 (0.010)***	1.11 (1.09-1.14)	10.63
44		year quarter [2018Q1]	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.316	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.32	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.311	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.312	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.29
45		year quarter [2018Q2]	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.681	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.7	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.675	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.677	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.65
46		year quarter [2018Q3]	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.789	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.8	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.783	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.782	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.72
47		year quarter [2018Q4]	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.927	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.93	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.923	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.917	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.89
48		year quarter [2019Q1]	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.72	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.7	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.719	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.716	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.70

Paste Arial 10 General

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
1				MODEL 1			MODEL 2			MODEL 3			MODEL 4 - TWLM Linear Fixed			MODEL 5 - TWLM Linear + Squared Fixed				
22	FIXED EFFECTS		Baseline mental health service use (intercept)	-3.072 (0.013)***	0.05 (0.05-0.05)	-234.998	-3.074 (0.013)***	0.05 (0.05-0.05)	-235	-3.074 (0.013)***	0.05 (0.05-0.05)	-234.528	-3.071 (0.013)***	0.05 (0.05-0.05)	-234.743	-3.074 (0.013)***	0.05 (0.05-0.05)	-234.3		
23		learn materials [1]	NA	NA	NA	0.014 (0.005)**	1.01 (1.00-1.02)	2.701	-0.007 (0.010)	0.99 (0.97-1.01)	-0.724	NA	NA	NA	NA	NA	NA	NA		
24		avg time with learn materials	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.003 (0.003)	1.00 (1.00-1.01)	1.132	0.034 (0.007)***	1.03 (1.02-1.05)	4.98	
25		avg time with learn materials squared	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-0.012 (0.002)**	0.99 (0.98-0.99)	-4.92	
26		subject guidelines [1]	NA	NA	NA	0.003 (0.010)	1.00 (0.98-1.02)	0.35	-0.001 (0.010)	1.00 (0.98-1.02)	-0.07	0.006 (0.010)	1.01 (0.99-1.03)	0.62	0.005 (0.010)	1.01 (0.99-1.02)	0.48	0.48		
27		avg gender centered	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.557	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.6	-0.275 (0.015)***	0.76 (0.74-0.78)	-18.06	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.558	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.558	-0.261 (0.015)***	0.77 (0.75-0.79)	-17.52
28		grade level [10]	0.386 (0.006)***	1.47 (1.45-1.49)	64.606	0.391 (0.006)***	1.48 (1.46-1.50)	62.5	0.390 (0.006)***	1.48 (1.46-1.49)	62.336	0.387 (0.006)***	1.47 (1.46-1.49)	63.401	0.393 (0.006)***	1.48 (1.46-1.50)	63.1	0.393 (0.006)***	1.48 (1.46-1.50)	63.1
29		grade level [6]	0.040 (0.004)***	1.04 (1.03-1.05)	9.148	0.041 (0.004)***	1.04 (1.03-1.05)	9.43	0.041 (0.004)***	1.04 (1.03-1.05)	9.432	0.039 (0.004)***	1.04 (1.03-1.05)	8.85	0.039 (0.004)***	1.04 (1.03-1.05)	8.81	0.039 (0.004)***	1.04 (1.03-1.05)	8.81
30		grade level [7]	0.066 (0.004)***	1.07 (1.06-1.08)	15.23	0.070 (0.005)***	1.07 (1.06-1.08)	15.24	0.069 (0.005)***	1.07 (1.06-1.08)	14.644	0.065 (0.004)***	1.07 (1.06-1.08)	15.08	0.072 (0.005)***	1.07 (1.06-1.09)	15.85	0.072 (0.005)***	1.07 (1.06-1.09)	15.85
31		grade level [8]	0.151 (0.006)***	1.16 (1.15-1.18)	25.077	0.151 (0.006)***	1.16 (1.15-1.18)	25.07	0.150 (0.006)***	1.16 (1.15-1.18)	24.558	0.151 (0.006)***	1.16 (1.15-1.18)	24.952	0.153 (0.006)***	1.17 (1.15-1.18)	25.20	0.153 (0.006)***	1.17 (1.15-1.18)	25.20
32		grade level [9]	0.277 (0.006)***	1.32 (1.31-1.33)	46.342	0.278 (0.006)***	1.32 (1.31-1.34)	46.38	0.278 (0.006)***	1.32 (1.31-1.34)	46.104	0.276 (0.006)***	1.32 (1.30-1.33)	45.931	0.276 (0.006)***	1.32 (1.30-1.33)	45.87	0.276 (0.006)***	1.32 (1.30-1.33)	45.87
33		year quarter [2015Q2]	0.001 (0.010)	1.00 (0.98-1.02)	0.109	0.001 (0.010)	1.00 (0.98-1.02)	0.108	0.001 (0.010)	1.00 (0.98-1.02)	0.111	0.001 (0.010)	1.00 (0.98-1.02)	0.109	0.001 (0.010)	1.00 (0.98-1.02)	0.11	0.001 (0.010)	1.00 (0.98-1.02)	0.11
34		year quarter [2015Q3]	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.244	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.3	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.245	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.244	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.20	-0.256 (0.011)***	0.77 (0.76-0.79)	-23.20
35		year quarter [2015Q4]	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.116	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.12	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.115	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.113	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.10	-0.054 (0.010)***	0.95 (0.93-0.97)	-5.10
36		year quarter [2016Q1]	0.042 (0.010)***	1.04 (1.02-1.06)	4.076	0.042 (0.010)***	1.04 (1.02-1.06)	4.076	0.042 (0.010)***	1.04 (1.02-1.06)	4.077	0.042 (0.010)***	1.04 (1.02-1.06)	4.074	0.042 (0.010)***	1.04 (1.02-1.06)	4.06	0.042 (0.010)***	1.04 (1.02-1.06)	4.06
37		year quarter [2016Q2]	0.071 (0.010)***	1.07 (1.05-1.09)	6.935	0.071 (0.010)***	1.07 (1.05-1.09)	6.937	0.071 (0.010)***	1.07 (1.05-1.09)	6.935	0.071 (0.010)***	1.07 (1.05-1.09)	6.93	0.071 (0.010)***	1.07 (1.05-1.09)	6.91	0.071 (0.010)***	1.07 (1.05-1.09)	6.91
38		year quarter [2016Q3]	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.894	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.9	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.886	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.884	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.85	-0.194 (0.011)***	0.82 (0.81-0.84)	-17.85
39		year quarter [2016Q4]	0.030 (0.010)**	1.03 (1.01-1.05)	2.902	0.030 (0.010)**	1.03 (1.01-1.05)	2.903	0.030 (0.010)**	1.03 (1.01-1.05)	2.908	0.030 (0.010)**	1.03 (1.01-1.05)	2.901	0.030 (0.010)**	1.03 (1.01-1.05)	2.89	0.030 (0.010)**	1.03 (1.01-1.05)	2.89
40		year quarter [2017Q1]	0.270 (0.010)***	1.31 (1.28-1.34)	27.468	0.270 (0.010)***	1.31 (1.28-1.34)	27.49	0.270 (0.010)***	1.31 (1.28-1.34)	27.471	0.270 (0.010)***	1.31 (1.28-1.34)	27.456	0.270 (0.010)***	1.31 (1.28-1.34)	27.4	0.270 (0.010)***	1.31 (1.28-1.34)	27.4
41		year quarter [2017Q2]	0.141 (0.010)***	1.15 (1.13-1.17)	13.984	0.141 (0.010)***	1.15 (1.13-1.17)	14	0.141 (0.010)***	1.15 (1.13-1.17)	13.99	0.141 (0.010)***	1.15 (1.13-1.17)	13.979	0.141 (0.010)***	1.15 (1.13-1.17)	13.95	0.141 (0.010)***	1.15 (1.13-1.17)	13.95
42		year quarter [2017Q3]	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.327	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.33	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.322	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.325	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.30	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.30
43		year quarter [2017Q4]	0.108 (0.010)***	1.11 (1.09-1.14)	10.655	0.108 (0.010)***	1.11 (1.09-1.14)	10.66	0.108 (0.010)***	1.11 (1.09-1.14)	10.66	0.108 (0.010)***	1.11 (1.09-1.14)	10.65	0.108 (0.010)***	1.11 (1.09-1.14)	10.63	0.108 (0.010)***	1.11 (1.09-1.14)	10.63
44		year quarter [2018Q1]	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.316	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.32	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.311	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.312	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.29	-0.088 (0.011)***	0.92 (0.90-0.94)	-8.29
45		year quarter [2018Q2]	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.681	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.7	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.675	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.677	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.65	-0.146 (0.011)***	0.86 (0.85-0.88)	-13.65
46		year quarter [2018Q3]	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.789	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.8	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.783	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.782	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.72	-0.485 (0.012)***	0.62 (0.60-0.63)	-41.72
47	year quarter [2018Q4]	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.927	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.9	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.923	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.917	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.89	-0.216 (0.011)***	0.81 (0.79-0.82)	-19.89	
48	year quarter [2019Q1]	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.72	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.7	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.719	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.716	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.70	-0.113 (0.011)***	0.89 (0.87-0.91)	-10.70	
49	year quarter [2019Q2]	-0.153 (0.011)***	0.86 (0.84-0.88)	-14.345	-0.153 (0.011)***	0.86 (0.84-0.88)	-14.4	-0.153 (0.011)***	0.86 (0.84-0.88)	-14.341	-0.153 (0.011)***	0.86 (0.84-0.88)	-14.34	-0.153 (0.011)***	0.86 (0.84-0.88)	-14.31	-0.153 (0.011)***	0.86 (0.84-0.88)	-14.31	
50	year quarter [2019Q3]	-0.412 (0.011)***	0.66 (0.65-0.68)	-36.355	-0.412 (0.011)***	0.66 (0.65-0.68)	-36.4	-0.412 (0.011)***	0.66 (0.65-0.68)	-36.35	-0.412 (0.011)***	0.66 (0.65-0.68)	-36.344	-0.412 (0.011)***	0.66 (0.65-0.68)	-36.28	-0.412 (0.011)***	0.66 (0.65-0.68)	-36.28	
51	year quarter [2019Q4]	-0.182 (0.011)***	0.83 (0.82-0.85)	-16.999	-0.182 (0.011)***	0.83 (0.82-0.85)	-17	-0.182 (0.011)***	0.83 (0.82-0.85)	-16.991	-0.182 (0.011)***	0.83 (0.82-0.85)	-16.991	-0.182 (0.011)***	0.83 (0.82-0.85)	-16.96	-0.182 (0.011)***	0.83 (0.82-0.85)	-16.96	
52	year quarter [2020Q1]	-0.106 (0.011)***	0.90 (0.88-0.92)	-10.052	-0.106 (0.011)***	0.90 (0.88-0.92)	-10.1	-0.106 (0.011)***	0.90 (0.88-0.92)	-10.044	-0.106 (0.011)***	0.90 (0.88-0.92)	-10.047	-0.106 (0.011)***	0.90 (0.88-0.92)	-10.03	-0.106 (0.011)***	0.90 (0.88-0.92)	-10.03	
53	year quarter [2020Q2]	-0.255 (0.012)***	0.77 (0.76-0.79)	-20.696	-0.256 (0.012)***	0.77 (0.76-0.79)	-20.7	-0.256 (0.012)***	0.77 (0.76-0.79)	-20.705	-0.256 (0.012)***	0.77 (0.76-0.79)	-20.699	-0.256 (0.012)***	0.77 (0.76-0.79)	-20.65	-0.256 (0.012)***	0.77 (0.76-0.79)	-20.65	
54	year quarter [2020Q3]	-0.337 (0.013)***	0.71 (0.70-0.73)	-26.534	-0.344 (0.015)***	0.71 (0.69-0.73)	-22.9	-0.345 (0.015)***	0.71 (0.69-0.73)	-22.778	-0.342 (0.015)***	0.71 (0.69-0.73)	-22.738	-0.343 (0.015)***	0.71 (0.69-0.73)	-22.74	-0.343 (0.015)***	0.71 (0.69-0.73)	-22.74	
55	year quarter [2020Q4]	0.000 (0.012)	1.00 (0.98-1.02)	-0.022	-0.008 (0.015)	0.99 (0.96-1.02)	-0.52	-0.007 (0.015)	0.99 (0.96-1.02)	-0.456	-0.006 (0.015)	0.99 (0.97-1.02)	-0.391	-0.009 (0.015)	0.99 (0.96-1.02)	-0.58	-0.009 (0.015)	0.99 (0.96-1.02)	-0.58	
56	year quarter [2021Q1]	0.154 (0.012)***	1.17 (1.14-1.19)	12.55	0.147 (0.015)***	1.16 (1.12-1.19)	9.997	0.149 (0.015)***	1.16 (1.13-1.20)	10.047	0.148 (0.015)***	1.16 (1.13-1.19)	10.095	0.144 (0.015)***	1.15 (1.12-1.19)	9.75	0.144 (0.015)***	1.15 (1.12-1.19)	9.75	
57	year quarter [2021Q2]	0.125 (0.013)***	1.13 (1.10-1.16)	9.839	0.117 (0.015)***	1.12 (1.09-1.16)	7.816	0.121 (0.015)***	1.13 (1.10-1.16)	7.959	0.119 (0.015)***	1.13 (1.09-1.16)	7.899	0.114 (0.015)***	1.12 (1.09-1.15)	7.51	0.114 (0.015)***	1.12 (1.09-1.15)	7.51	
58	year quarter [2021Q3]	0.134 (0.013)***	1.14 (1.11-1.17)	10.294	0.121 (0.017)***	1.13 (1.09-1.17)	7.334	0.128 (0.017)***	1.14 (1.10-1.18)	7.654	0.126 (0.016)***	1.13 (1.10-1.17)	7.688	0.118 (0.017)***	1.13 (1.09-1.16)	7.14	0.118 (0.017)***	1.13 (1.09-1.16)	7.14	
59	year quarter [2021Q4]	0.609 (0.010)***	1.84 (1.80-1.87)	58.981	0.597 (0.014)***	1.82 (1.77-1.87)	41.68	0.604 (0.014)***	1.83 (1.78-1.88)	41.771	0.601 (0.014)***	1.82 (1.77-1.87)	42.279	0.592 (0.014)***	1.81 (1.76-1.86)	41.05	0.592 (0.014)***	1.81 (1.76-1.86)	41.05	
60	year quarter [2022Q1]	1.119 (0.010)***	3.06 (3.00-3.12)	109.05	1.106 (0.014)***	3.02 (2.94-3.11)	77.57	1.118 (0.014)***	3.06 (2.98-3.14)	77.48	1.111 (0.014)***	3.04 (2.96-3.12)	78.169	1.100 (0.014)***	3.00 (2.92-3.09)	76.27	1.100 (0.014)***	3.00 (2.92-3.09)	76.27	
61	year quarter [2022Q2]	0.082 (0.012)***	1.09 (1.06-1.11)	6.953	0.070 (0.015)***	1.07 (1.04-1.10)	4.512	0.082 (0.016)***	1.09 (1.0											

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D53 fx -0.255 (0.012)\*\*\*

Table with columns A-Y and rows 1-20. Headers: MODEL 3, MODEL 4 - TWLM Linear Fixed, MODEL 5 - TWLM Linear + Squared Fixed, MODEL 6 - TWLM-by-School-Interaction. Rows include School ID, Standard deviation of intercepts, Correlation between intercept and time quarter slopes, etc.

Table with columns J-S and rows 21-48. Headers: Baseline mental health service use (intercept), learn materials [1], avg time with learn materials, etc. Includes z-values, Log-odds, and OR (CI).

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J31 fx 0.150 (0.006)\*\*\*

Table with columns A-X and rows 1-72. Headers include MODEL 3, MODEL 4 - TWLM Linear Fixed, MODEL 5 - TWLM Linear + Squared Fixed, and MODEL 6 - TWLM-by-School-Interaction. Rows contain statistical data for 'avg time with learn materials squared' across various subject guidelines and grade levels.

