The Role of Therapy Delivery and Clinic Organizational Factors in Explaining Therapist Effects for Trauma Focused Psychotherapies in the Veterans Health Administration

Supplemental Materials 2

Appendix A *Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Session Spacing Intensity*

			Proportion of	
Random Effects	Estimate	SE	Variance	<u>p</u>
Therapist, σ^2_T	0.107	0.057	3.162%	0.019
		Fixed E		
	OR	[95%	6 CI]	р
PE (ref.: CPT)	1.287	[1.0]	[2, 1.637]	0.039
Age (mean centered)	0.986	[0.97	77, 0.995]	0.001
Race (ref.: all other)				
Black/African America	in 1.255	[0.98	31, 1.606]	0.071
Multiracial	2.040	-	78, 6.144]	0.205
Ethnicity (ref.: Hispanic)			
not Hispanic	0.746	[0.52	23, 1.064]	0.106
missing	0.698		38, 1.257]	0.231
Education (ref.: \geq colle	ge)			
≤ High school	1.495	[1.1()3, 2.028]	0.010
Some college or trade se	chool 1.283	-	7, 1.686]	0.073
missing	1.344	-	07, 1.795]	0.045
Employment (ref.: all ot	her)			
retired	0.791	[0.55	58, 1.121]	0.187
Trauma history (ref.: no	multiple trauma)			
Multiple trauma	1.148	[0.93	31, 1.415]	0.195
Index trauma (ref.: all ot	her)			
Other or missing	1.143	[0.89	93, 1.462]	0.288
Pandemic period (ref.: p	re-pandemic)			
Early pandemic	2.008		28, 2.639]	< 0.001
During pandemic	1.153	[0.9]	1, 1.459]	0.235
Session spacing intensi	ty 1.129	[1.08	81, 1.179]	< 0.001

			Proportion of	·	
Random Effects	Estimate	SE	Variance	р	
Therapist, σ^2_T	0.155	0.060	4.509%	0.002	
		Fixed Ef	fects		
	OR	[95%	CI]	р	
PE (ref.: CPT)	1.286	[1.009	, 1.640]	0.042	
Age (mean centered)	0.986	[0.977	⁷ , 0.994]	0.001	
Race (ref.: all other)					
Black/African America	n 1.258	[0.981	, 1.613]	0.071	
Multiracial	2.061	[0.680	, 6.247]	0.201	
Ethnicity (ref.: Hispanic))				
not Hispanic	0.760	[0.531	, 1.087]	0.133	
missing	0.694	[0.384	, 1.254]	0.226	
Education (ref.: \geq college	ge)				
\leq High school	1.521	[1.121	, 2.064]	0.007	
Some college or trade so	chool 1.304	[0.992	, 1.714]	0.057	
missing	1.404	[1.051	, 1.876]	0.022	
Employment (ref.: all oth	ner)				
retired	0.791	[0.558	, 1.122]	0.189	
Trauma history (ref.: no	multiple trauma)				
Multiple trauma	1.143	[0.927	, 1.410]	0.212	
Index trauma (ref.: all ot	her)				
Other or missing	1.155	[0.902	2, 1.479]	0.252	
Pandemic period (ref.:	pre-pandemic)				
Early pandemic	2.026	[1.541	, 2.665]	< 0.001	
During pandemic	1.134	[0.896	6, 1.437]	0.295	
Session spacing consiste	ency 1.085	[1.028	8, 1.145]	0.003	XX71 *

Appendix B. Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Session Spacing Consistency

Duse Model for Dropoul w		oj nanerene	Proportion of		
Random Effects	Estimate	SE	Variance	р	
Therapist, $\sigma^2_{\rm T}$ ().193	0.070	5.530%	< 0.001	
		Fixed Eff	fects		
	OR	[95% (CI]	р	
PE (ref.: CPT)	1.231	[0.958	, 1.582]	0.104	
Age (mean centered)	0.986	[0.978	, 0.995]	0.002	
Race (ref.: all other)					
Black	1.275	L .	, 1.637]	0.057	
Multiracial	2.143	[0.702	, 6.541]	0.181	
Ethnicity (ref.: Hispanic)					
not Hispanic	0.775	L .	, 1.083]	0.127	
missing	0.684	[0.378	, 1.239]	0.211	
Education (ref.: ≥ college					
≤ High school	1.534	[1.130	, 2.084]	0.006	
Some college or trade sc	hool 1.336		, 1.757]	0.038	
missing	1.434	[1.072	, 1.918]	0.015	
Employment (ref.: all othe					
retired	0.789	[0.556	, 1.120]	0.185	
Trauma history (ref.: no m	ultiple trauma)				
Multiple trauma	1.155	[0.936	, 1.425]	0.180	
Index trauma (ref.: all othe					
Other or missing	1.170	[0.913	, 1.501]	0.215	
Pandemic period (ref.: p	re-pandemic)				
Early pandemic	1.994		, 2.624]	< 0.001	
During pandemic	1.118	[0.882	, 1.417]	0.358	
Adherence (mean centered	d) 0.933	[0.818	, 1.064]	0.299	

Appendix C. *Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Adherence*

		Proportion of	
Estimate	SE	Variance	р
0.195	0.116	5.609%	< 0.001
	Fixed Eff	ects	
OR	[95% 0	CI]	р
1.266	[0.991,	1.618]	0.059
0.986	[0.978,	0.995]	0.002
1.281	[0.997,	1.647]	0.053
2.188	[0.716,	6.685]	0.169
)			
0.737	[0.514.	1.058]	0.098
0.685		-	0.212
ge)			
	[1.090.	2.016]	0.012
	• ·	-	0.055
1.399	L /	-	0.024
oyed or unclear)			
0.789	[0.555,	1.120]	0.184
multiple trauma)			
1.148	[0.930,	1.418]	0.199
her)			
1.136	[0.886,	1.458]	0.314
pre-pandemic)			
1.966	[1.492,	2.590]	< 0.001
1.115			0.370
nip 0.910	[0.805.	1.028]	0.129
	0.195 OR 1.266 0.986 1.281 2.188 0 0.737 0.685 ge) 1.482 chool 1.309 1.309 1.399 oyed or unclear) 0.789 multiple trauma) 1.148 her) 1.136 pre-pandemic) 1.966 1.115	0.195 0.116 Fixed Eff OR [95% C 1.266 [0.991, 0.986 [0.978, 1.266 [0.997, 1.281 [0.997, 2.188 [0.716, 0.737 [0.514, 0.685 [0.378, ge) 1.482 [1.090, chool 1.309 [0.994, chool 1.309 [0.994, oyed or unclear) 0.789 [0.555, multiple trauma) 1.148 [0.930, her) 1.136 [0.886, pre-pandemic) 1.966 [1.492, 1.115 [0.879, [0.879,	Estimate SE Variance 0.195 0.116 5.609% Fixed Effects OR [95% CI] 1.266 [0.991, 1.618] 0.986 [0.978, 0.995] 1.281 [0.997, 1.647] 2.188 [0.716, 6.685]) 0.737 [0.514, 1.058] 0.685 [0.378, 1.240] ge) 1.482 [1.090, 2.016] chool 1.309 [0.994, 1.723] 1.399 [1.044, 1.874] oyed or unclear) 0.789 0.789 [0.555, 1.120] multiple trauma) 1.148 1.136 [0.886, 1.458] pre-pandemic) 1.966 1.115 [0.879, 1.414]

Appendix D. Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Implementation Leadership Scores

			Proportion of		
Random Effects	Estimate	SE	Variance	р	
Therapist, σ^2_T	0.154	0.052	4.469%	0.003	
		Fixed Ef	fects		
	OR	[95%	CI]	р	
PE (ref: CPT)	1.275	[1.000), 1.626]	0.050	
Age (mean centered)	0.986	[0.978	8, 0.995]	0.002	
Race (ref.: all other)					
Black	1.298	[1.012	2, 1.664]	0.040	
Multiracial	2.198	[0.723	8, 6.682]	0.165	
Ethnicity (ref.: Hispanic)					
not Hispanic	0.731	[0.511	, 1.047]	0.087	
missing	0.694	[0.384	, 1.255]	0.227	
Education (ref.: \geq colleg	e)				
≤ High school	1.515	[1.117	7, 2.057]	0.008	
Some college or trade sc	hool 1.311	-	3, 1.724]	0.052	
missing	1.400	L .	8, 1.872]	0.023	
Employment (ref.: all oth	er)				
retired	0.781	[0.551	, 1.108]	0.166	
Trauma history (ref.: no r	nultiple trauma)				
Multiple trauma	1.168	[0.947	7, 1.440]	0.148	
Index trauma (ref: all oth	er)				
Other or missing	1.128	[0.881	, 1.446]	0.339	
Pandemic period (ref.:]	ore-pandemic)				
Early pandemic	1.992	[1.515	5, 2.619]	< 0.001	
During pandemic	1.137		3, 1.439]	0.287	
Implementation Climat	e 0.739	[0.619	9, 0.882]	0.001	

Appendix E. *Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Implementation Climate Scores*

Duse model for Dropoul		<i>oj 11011111</i> c	Proportion of		
Random Effects	Estimate	SE	Variance	р	
Therapist, $\sigma^2 T$	0.188	0.073	5.396%	< 0.001	
		Fixed Eff	fects		
	OR	[95% (CI]	р	
PE (ref: CPT)	1.256	[0.983]	, 1.604]	0.068	
Age (mean centered)	0.986	[0.978	, 0.995]	0.002	
Race (ref.: all other)					
Black	1.271	[0.990	, 1.631]	0.060	
Multiracial	2.124	[0.697	, 6.476]	0.185	
Ethnicity (ref.: Hispanic)				
not Hispanic	0.746	[0.520	, 1.069]	0.110	
missing	0.691	[0.382	, 1.251]	0.223	
Education (ref.: \geq colle	ege)				
\leq High school	1.532	[1.128	, 2.080]	0.006	
Some college or trade	school 1.329	[1.010]	, 1.747]	0.042	
missing	1.435		, 1.919]	0.015	
Employment (ref.: all ot	her)				
retired	0.788	[0.556	, 1.118]	0.182	
Trauma history (ref.: no	multiple trauma)				
Multiple trauma	1.158	[0.938	, 1.428]	0.172	
Index trauma (ref.: all of	ther)				
Other or missing	1.152	[0.899	, 1.476]	0.265	
Pandemic period (ref.:	pre-pandemic)				
Early pandemic	2.005	[1.523	, 2.638]	< 0.001	
During pandemic	1.135		, 1.439]	0.294	
Monthly caseload	1.017	[0.999	, 1.036]	0.071	
•					

Appendix F. Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Monthly Caseload

			Proportion of		
Random Effects	Estimate	SE	Variance	р	
Therapist, σ^2_T	0.201	0.074	5.751%	< 0.001	
		Fixed E	Effects		
	OR	[95%		р	
PE (ref.: CPT)	1.279		99, 1.638]	0.051	
Age (mean centered)	0.986	[0.97	78, 0.995]	0.002	
Race (ref.: all other)					
Black	1.280	[0.99	96, 1.645]	0.053	
Multiracial	2.145	[0.70	02, 6.556]	0.181	
Ethnicity (ref.: Hispanic))				
not Hispanic	0.748	[0.52	21, 1.073]	0.114	
missing	0.684	[0.37	78, 1.240]	0.211	
Education (ref.: \geq colle	ge)				
≤ High school	1.526	[1.12	23, 2.073]	0.007	
Some college or trade	school 1.330	[1.01	1, 1.750]	0.041	
missing	1.427		57, 1.910]	0.017	
Employment (ref.: all oth	her)				
retired	0.788	[0.55	55, 1.118]	0.182	
Trauma history (ref.: no	multiple trauma)				
Multiple trauma	1.156	[0.93	6, 1.426]	0.178	
Index trauma (ref.: all ot	her)				
Other or missing	1.154	[0.90	00, 1.480]	0.258	
Pandemic period (ref.:	pre-pandemic)				
Early pandemic	1.999	[1.51	8, 2.631]	< 0.001	
During pandemic	1.130	[0.89	01, 1.433]	0.315	
PTSD specialty care involvement	0.910	[0.70	05, 1.174]	0.469	

Appendix G. Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of PTSD Specialty Care Involvement

Climate and Caseload			Duan aution of		
Random Effects	Estimate	SE	Proportion of Variance	n	
Therapist, σ^2_{T}	0.068	<u> </u>	2.031%	<u> </u>	
Therapist, o ⁻ _T	0.008	0.040	2.03170	0.140	
		Fixed Eff	ects		
	OR	[95% 0		р	
PE (ref: CPT)	1.256	[0.984,	1.604]	0.067	
Age (mean centered)	0.986	[0.977,	, 0.994]	0.001	
Race (ref: all other)					
Black	1.269	[0.993,	1.621]	0.057	
Multiracial	2.126	[0.709,	6.373]	0.178	
Ethnicity (ref.: Hispanic))				
not Hispanic	0.734	[0.516.	1.045]	0.086	
missing	0.719		1.292]	0.270	
Education (ref: ≥ colleg	e)				
≤ High school	1.491	[1.100,	2.019]	0.010	
Some college or trade so	chool 1.275	[0.972,	1.674]	0.080	
missing	1.332	[0.999,	1.777]	0.051	
Employment (ref.: all oth	ner)				
retired	0.782	[0.553,	1.107]	0.166	
Trauma history (ref.: no	multiple trauma)				
Multiple trauma	1.161	[0.943,	1.430]	0.160	
Index trauma (ref.: all ot	her)				
Other or missing	1.120	[0.875,	1.434]	0.367	
Pandemic period (ref.:	pre-pandemic)				
Early pandemic	1.992	[1.518,	, 2.614]	< 0.001	
During pandemic	1.168	[0.924,	1.476]	0.194	
Session spacing intensit	ty 1.114	[1.067,	1.163]	< 0.001	
Adherence (mean center	ed) 0.959	[0.855,	1.076]	0.473	
Implementation climat			, 0.956]	0.013	
Caseload	1.012	[0.995,	1.029]	0.174	

Appendix H. Estimated Variance Components for Random Effects and Odds Ratios for Fixed Effects for Base Model for Dropout with the Addition of Session Spacing Intensity, Adherence, Implementation Climate and Caseload