Provocation Index pre-post multilevel regression analysis

Service userDependent variable is key worker-reported Provocation Index post intervention.

			95% CI	
Variable	β	<i>p</i> -value	Lower bound	Upper bound
Intercept	-42.1	0.160	-101.6	17.5
Service user PI pre intervention	0.6	< 0.001	0.5	0.8
Age of service user	-0.26	0.061	-0.5	0.0
Gender of service user (males vs females)	-5.1	0.080	-10.8	0.6
BPVS	0.0	0.650	-0.1	0.1
IQ	-0.1	0.713	-0.5	0.3
RSES pre intervention	0.1	0.780	-0.7	1.0
ComQoL pre intervention	0.0	0.410	-0.0	0.1
Lay therapist qualification (NVQ/SVQ level 2 or GCSEs or less vs relevant degree or professional qualification)	4.1	0.637	-14.0	22.2
Lay therapist qualification (NVQ/SVQ level 3, Highers/A-levels or HNC vs relevant degree or professional qualification)	2.5	0.681	-10.9	16.0
Lay therapist qualification (NVQ/SVQ level 4, HND or irrelevant degree vs relevant degree or professional qualification)	3.7	0.660	-14.1	21.5
Gender of lay therapist (males vs females)	7.7	0.127	-2.5	18.0
Age of lay therapist	8.0	0.006	0.3	1.3
Region (Scotland vs Wales)	-2.4	0.701	-15.7	10.9
Region (England vs Wales)	-0.1	0.997	-17.2	17.2
Group size (fewer than four service users in a group vs more than six in a group)	3.1	0.648	-11.5	17.7
Group size (between four and six service users in a group vs more than six in a group)	6.4	0.255	-5.7	18.6
No. of sessions attended	-1.2	0.012	-2.1	-0.3
Group fidelity rating	0.5	0.016	0.1	0.9

Key worker

Key Worker					
			95% CI		
Variable	β	<i>p</i> -value	Lower bound	Upper bound	
Intercept	20.2	0.396	-27.8	68.2	
Key worker PI pre intervention	0.6	< 0.001	0.4	0.7	
Age of service user	-0.2	0.086	-0.4	0.0	
Gender of service user (males vs females)	-1.7	0.455	-6.1	2.8	
BPVS	0.0	0.755	-0.1	0.1	
WASIQ	-0.3	0.040	-0.7	-0.0	
RSES pre intervention	-0.8	0.034	-1.5	-0.1	
ComQoL pre intervention	0.0	0.237	-0.0	0.1	
GDS pre intervention	0.8	0.004	0.3	1.3	
GAS pre intervention	-0.2	0.082	-0.5	0.0	
Lay therapist qualification (NVQ/SVQ level 2 or GCSEs or less vs relevant degree or professional qualification)	10.5	0.192	-5.9	26.8	
Lay therapist qualification (NVQ/SVQ level 3, Highers/A-levels or HNC vs relevant degree or professional qualification)	6.9	0.299	-6.9	20.6	
Lay therapist qualification (NVQ/SVQ level 4, HND or irrelevant degree vs relevant degree or professional qualification)	8.5	0.335	-9.8	26.7	
Gender of lay therapist (males vs females)	2.0	0.643	-7.2	11.3	
No. of years lay therapist has worked in learning disability services	0.2	0.400	-0.04	0.9	
Group size (fewer than four service users in a group vs more than six in a group)	-61,095.0	0.433	-227,342.000	105,153.000	
Group size (between four and six service users in a group vs more than six in a group)	0.1	0.981	-11.7	12.0	
Region (Scotland vs Wales)	7.4	0.247	-5.9	20.8	
Region (England vs Wales)	3.3	0.686	-13.9	20.4	
Group fidelity rating	0.3	0.155	-0.1	0.7	

Profile of Anger Coping Skills pre-post multilevel regression analysis

Service user

Dependent variable is self-reported PACS post intervention.

			95% CI	
Variable	β	<i>p</i> -value	Lower bound	Upper bound
Intercept	21.9	0.548	-51.0	94.7
PACS service user pre intervention	0.3	0.008	0.1	0.6
Age of service user	0.0	0.821	-0.3	0.4
Gender of service user (males vs females)	1.9	0.626	-5.9	9.7
BPVS	0.1	0.264	-0.1	0.2
WASIQ	-0.3	0.359	-0.8	0.3
RSES pre intervention	-0.5	0.413	-1.7	0.7
COMQOL pre intervention	0.1	0.269	-0.0	0.2
GDS pre intervention	0.8	0.072	-0.1	1.8
GAS pre intervention	-0.5	0.045	-1.0	-0.0
Lay therapist qualification (NVQ/SVQ level 2 or GCSEs or less vs relevant degree or professional qualification)	-3.0	0.782	-25.4	19.4
Lay therapist qualification (NVQ/SVQ level 3, Highers/A-levels or HNC vs Relevant degree or professional qualification)	-9.5	0.236	-26.5	7.5
Lay therapist qualification (NVQ/SVQ level 4, HND or irrelevant degree vs Relevant degree or professional qualification)	-8.1	0.470	-32.2	16.0
Gender of lay therapist (males vs females)	13.3	0.044	0.4	26.1
Number of years lay therapist has worked in learning disability services	0.3	0.469	-0.5	1.1
Region (Scotland vs Wales)	-8.8	0.296	-26.3	8.8
Region (England vs Wales)	-17.2	0.111	-39.1	4.7
Group size (fewer than four service user in a group vs more than six in a group)	-3.5	0.710	-23.9	16.8
Group size (between four and six service user in a group vs more than six in a group)	3.1	0.643	-12.0	18.2
Number of sessions attended	1001.0	0.999	-1.3	1.3
Group fidelity rating	0.3	0.236	-0.2	0.8

Key worker

Dependent variable is key worker-reported PACS post intervention.

			95% CI	
Variable	β	<i>p</i> -value	Lower bound	Upper bound
Intercept	50.7	0.123	-14.7	116.1
PACS key worker pre intervention	0.5	< 0.001	0.2	0.7
Age of service user	-0.1	0.324	-0.4	0.1
Gender of service user (males vs females)	2.5	0.366	-3.0	8.0
BPVS	-5783.0	0.899	-0.1	0.1
WASIQ	-0.1	0.498	-0.5	0.2
RSES pre intervention	0.4	0.396	-0.5	1.2
ComQoL pre intervention	-0.0	0.199	-0.1	0.0
Lay therapist qualification (NVQ/SVQ level 2 or GCSEs, or less vs relevant degree or professional qualification)	-18.1	0.118	-41.4	5.2
Lay therapist qualification (NVQ/SVQ level 3, Highers/A-levels, or HNC vs relevant degree or professional qualification)	-18.9	0.058	-38.6	0.8
Lay therapist qualification (NVQ/SVQ level 4, HND or irrelevant degree vs relevant degree or professional qualification)	-22.7	0.084	-48.9	3.6
Gender of lay therapist (males vs females)	9.6	0.150	-4.0	23.1
No. of years lay therapist has worked in learning disability services	0.5	0.224	-0.4	1.4
Region (Scotland vs Wales)	-16.9	0.079	-36.0	2.3
Region (England vs Wales)	-13.9	0.242	-38.6	10.8
Group size (fewer than four support workers in a group vs more than six in a group)	4.8	0.676	-19.1	28.6
Group size (between four and six service users in a group vs more than six in a group)	9.9	0.233	-7.4	27.2
Group fidelity rating	-0.3	0.267	-0.9	0.3
No. of sessions attended	-0.2	0.590	-1.0	0.6

Aberrant Behaviour Checklist pre-post multilevel regression analysis

Key worker

Dependent variable is key worker-reported ABC post-intervention.

			95% CI	
Variable	β	p-value	Lower bound	Upper bound
Intercept	26.8	0.143	-9.3	62.9
ABC pre intervention	0.8	< 0.001	0.6	0.9
Age of service user	-0.2	0.078	-0.3	0.0
Gender of service user (males vs females)	-3.5	0.094	-7.6	0.6
BPVS	0.0	0.604	-0.1	0.1
WASIQ	-0.2	0.232	-0.5	0.1
RSES pre intervention	-0.4	0.199	-1.1	0.2
ComQoL pre intervention	0.0	0.538	-0.0	0.1
GDS pre intervention	-0.3	0.101	-0.7	0.1
Lay therapist qualification (NVQ/SVQ level 2 or GCSEs, or less vs relevant degree or professional qualification)	-4.8	0.412	-16.2	6.7
Lay therapist qualification (NVQ/SVQ level 3, Highers/A-levels, or HNC vs relevant degree or professional qualification)	-3.5	0.354	-10.8	3.9
Lay therapist qualification (NVQ/SVQ level 4, HND or irrelevant degree vs relevant degree or professional qualification)	1.2	0.815	-8.8	11.2
Gender of lay therapist (males vs females)	0.2	0.929	-4.3	4.7
Region (Scotland vs Wales)	2.1	0.570	-5.3	9.5
Region (England vs Wales)	3.3	0.503	-6.5	13.1
Group size (fewer than four service users in a group vs more than six in a group)	0.7	0.878	-8.0	9.3
Group size (between four and six service users in a group vs more than six in a group)	-2.7	0.359	-8.5	3.1
Group fidelity rating	0.1	0.477	-0.1	0.3
No. of sessions attended	0.0	0.953	-0.6	0.6

Profile of Anger Coping Skills: imaginal provocation test prepost ranked analysis of covariance analysis

Dependent variable is residuals from the regression of the ranked post PACS-IPT medians on the pre-PACS-IPT medians.

			95% CI	95% CI	
Variable	β	<i>p</i> -value	Lower bound	Upper bound	
Intercept	0.9	0.045	0.0	1.7	
Age of service user	2284.0	0.717	-0.0	0.0	
Gender of service user (males vs females)	-0.3	0.080	-0.5	0.0	
BPVS	-1031.0	0.629	-5254.0	3193.0	
Lay therapist qualification (NVQ/SVQ level 2 or GCSEs or less vs relevant degree or professional qualification)	-0.1	0.642	-0.8	0.5	
Lay therapist qualification (NVQ/SVQ level 3, Highers/A-levels or HNC vs relevant degree or professional qualification)	-0.4	0.017	-0.8	-0.1	
Lay therapist qualification (NVQ/SVQ level 4, HND or irrelevant degree vs relevant degree or professional qualification)	-0.4	0.196	-0.9	0.2	
Region (Scotland vs Wales)	-0.7	< 0.001	-1.1	-0.3	
Region (England vs Wales)	-0.5	0.048	-0.9	-3616.0	