

Effectiveness of Pillars of Recovery Group Psychosocial Intervention (PSI)

for co-morbid mental health and substance dependence (dual diagnosis): An initial pilot outcomes evaluation

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INTRODUCTION: There is a relative lack of evidence-based group psychosocial interventions (PSI) available to service users seeking support for comorbid mental health and substance dependence difficulties, or 'dual diagnosis'. This study sought to evaluate the initial effectiveness of a new group PSI for dual diagnosis, 'Pillars of Recovery' to service users to achieve improvements to their mental health, general quality of life and wellbeing, social functioning and also reduce their substance use and dependency.

METHOD: Design: This was the initial stage of a larger, mixed-methods outcomes evaluation incorporating immediate and longterm follow-up of service users. Setting: These were dual diagnosis treatment services in Wales. Participants: This study reports immediate quantitative psychosocial outcomes from a group of \underline{n} = 42 dual diagnosis service users following a 12-week treatment period. Intervention: The intervention was the group PSI Pillars of Recovery for dual diagnosis. Measurements: This was a battery of standardised psychometric assessments including; Lifestyle Balance Model (LBM), screening tool; Leeds Dependence Questionnaire (LDQ, Raistrick et al., 1994); Patient Health Questionnaire (PHQ-9, Kroenke et al., 2001); General Anxiety Disorder Scale (GAD-7, Spitzer et al., 2006); General Health Questionnaire (GHQ-12, Goldberg and Hillier, 1979); Personal-Wellbeing Index-Adult (PWI-A, Cummins et al., 2003); General Self-Efficacy Scale (GSE, Schwarzer et al., 1997).

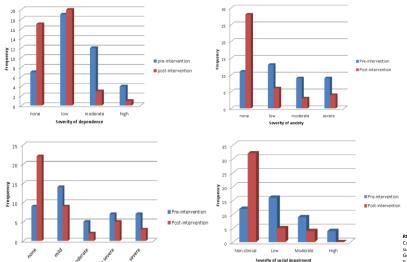
RESULTS: Data indicates both statistical improvements in drug and alcohol use and dependence, depression, anxiety, social functioning, quality of life and selfefficacy one-week following the 12-week treatment period. Additionally, effect size calculations revealed that improvements in psychometric scores were robust and likely a result of engagement with the intervention. Table 1 provides statistical data for these analyses. In addition, clinical improvements were identifies with numbers of service users reaching clinical thresholds for substance dependence, anxiety, depression and social impairment reducing from pre- to post-intervention period.

Table 1: Statistical outputs from analyses of psychometric data

Psychometric Measure	Baseline	Post-treatment	Z	r
	Mean (sd)	Mean (sd)		
LBM**	32.17 (11.51)	43.63 (9.37)	4.990	.77
Alcohol consumption (TOP)*	6.38 (10.05)	3.14 (6.62)	-2.458	.38
Drug consumption (TOP)**	11.57 (22.86)	3.66 (11.76)	-3.300	.51
Substance dependency (LDS)**	8.43 (7.93)	3.05 (5.17)	-3.756	.58
Depression (PHQ)**	10.52 (7.10)	6.41 (6.75)	-3.543	.55
Anxiety (GAD)**	8.69 (6.53)	4.76 (5.49)	-3.814	.59
Social functioning (GHQ)**	13.07 (8.64)	7.07 (5.63)	-3.576	.55
Quality of Life (PWI)**	47.43 (15.75)	58.93 (16.62)	3.610	.56
Self-efficacy (SES)**	28.21 (6.30)	32.24 (6.06)	3.990	.62

Statistically significant at the p = .014 level

Statistically significant at the p = .001 level



Figures 1-4: Changes in numbers of service users reaching clinical thresholds for substance dependence, anxiety, depression and social impairment from pre- to post-intervention period.

Severity of depression

DISCUSSION: These initial findings would indicate that Pillars of Recovery may result in encouraging clinical outcomes for service users presenting with dual diagnosis. Longer-term follow- up data has recently be collected, so it is hoped that these data will provide insights into potential sustained clinical improvements in this population. In addition, qualitative interview studies are currently underway with practitioners and service users to explore in more detail their experiences with Pillars of Recovery.

subjective wellbeing: The Australian Unity Wellbeing Index. Social Indicators Research 64, 159-1590.
Goldberg, D.P., Hillier, V., 1979. As scaled version of the General Health Questionnaire. Psychological Medicine 9, 139-145.
Stroenke, K., Spitzer, R.L., Williams, J.B.W., 2001. The PHQ-9, Journal of General Internal Medicine 16, 506-613.
Marsden, J., Farrell, M., Bradbury, C., Dale-Perera, A., Eastwood, B., Roxburgh, M., Taylor, S., 2008.
Development of the treatment outcomes profile. Addiction 103, 1450-1460.
Raistrick, D., Bradshaw, J., Tober, G., Weiner, J., Alliston, J., Healey, C., 1994. Development of the Leeds
Dependence Questionnaire (LDQ): a questionnaire to measure alcohol and opiate dependence in the context of a treatment evaluation package. Addiction 89, 563-572.
Schwarzer, R., Bädler, J., Kwistek, P., Schröder, K., Jahan, J.K., 1997. The Assessment of Optimistic Self-belies's. Comparison of the German, Spanish, and Chinese Versions of the General Self-efficacy Scale. Applied Psychology 46, 59-88.
Spitzer, R., Kroenke, K., Williams, J., Löwe, B., 2006. A brief measure for assessing generalized anxiety disorder: The GAD-7. Archives of Internal Medicine 166, 1092-1097.