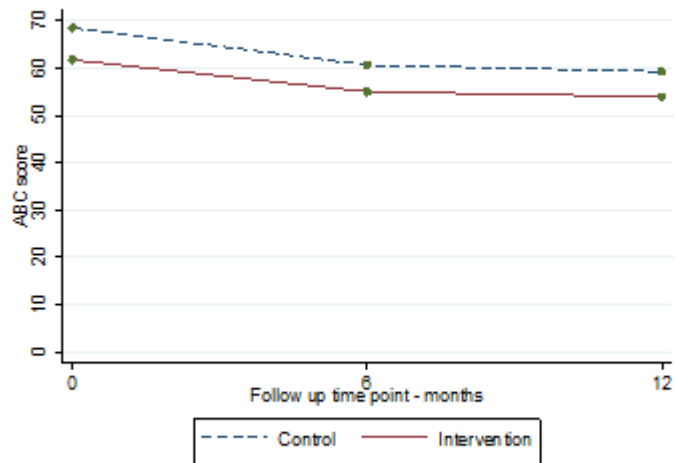


Supplementary Fig. 1 ABC-C_t score over 12 months.



Supplementary Table 1 Sensitivity and exploratory multivariate analyses

<i>Model</i>	<i>Difference</i>	<i>95% CI</i>	<i>P-value</i>
Sensitivity analyses			
Primary model	-2.14	(-8.79, 4.51)	0.528
Area deprivation	-2.39	(-9.19, 4.41)	0.491
Completed by family/paid carer	-1.21	(-8.20, 5.79)	0.735
Missing data (BOCF)	-1.83	(-8.42, 4.76)	0.586
Heteroscedastic model	-2.35	(-9.24, 4.55)	0.505
Imbalance in baseline characteristics	-0.81	(-7.95, 6.32)	0.824
% of participants who had at least one intervention component (e.g. plan, observations, goodness of fit)	1.41	(-15.5, 18.3)	0.870
Multivariate analysis (ABC-C subdomains)			
Irritability, Agitation, Crying	-0.041	(-0.22, 0.14)	
Lethargy, Social Withdrawal	-0.016	(-0.22, 0.19)	
Stereotypic Behaviour	-0.050	(-0.25, 0.14)	
Hyperactivity, Non-compliance	-0.049	(-0.23, 0.13)	

Supplementary Table 2 Secondary outcomes over 12 months

	Descriptive: N (%)			Analysis over 12 months		
	Baseline	6 Months	12 Months	N _{SU}	Odds Ratio/ Difference	95% CI
Service users						
Mini-PASADD	N (%)	N (%)	N (%)			
Common mental disorder						
Control	61 (46)	43 (37)	54 (44)	230	1.07	(0.61, 1.87)
Intervention	56 (52)	45 (46)	42 (42)			
Severe mental illness (SMI)						
Control	27 (20)	13 (11)	21 (17)	229	1.24	(0.32, 4.81)
Intervention	20 (19)	17 (18)	15 (15)			
Autistic spectrum						
Control	31 (23)	31 (27)	40 (33)	230	0.70	(0.26, 1.88)
Intervention	19 (18)	24 (24)	22 (22)			
GCPLA	Median (IQR)	Median (IQR)	Median (IQR)			
Range						
Control	17 (12, 22)	16.5 (13, 21)	17 (13, 21)	232	0.587	(-0.57, 1.74)
Intervention	19 (13, 23.5)	19 (14, 23)	17 (13.5, 22)			
Busy						
Control	10 (7, 13)	11 (7, 13)	11 (8, 13)	232	0.377	(-0.59, 1.34)
Intervention	11 (8, 15)	11 (8, 14)	12 (8, 14)			
Family carers	Median (IQR)	Median (IQR)	Median (IQR)			
Uplift						
Control	15 (13, 17)	15 (12, 17)	15 (13, 17)			
Intervention	14 (13, 16)	15 (14, 17)	15 (13, 16)			
Burden						
Control	33 (28, 39)	31 (25, 36)	30 (25, 39)			
Intervention	28 (26, 31)	29 (25.5, 32.5)	30 (28, 32.5)			
GHQ score						
Control	4 (1, 8)	4 (2, 7)	3 (1, 6)			
Intervention	3 (0, 4)	2.5 (1, 6.5)	2 (0, 3)			
Paid carers	Median (IQR)					
CDS*						
Control	24 (15, 37)					
Intervention	21 (13, 31)					

*Respondents changed over the 12 months, consequently the trends are not provided