

Table 1 Standardized assessment protocol AUP multicentre study.

Assessments	Time point		
	T1	T2	T3
Medical assessment	X	X	X
Environmental factors <sup>a), b)</sup>	X	X	X
Contextual factors <sup>a)</sup>	X	X	X
Vineland <sup>c)</sup>	X		
SCQ	X		
<b>ABC</b> <sup>d)</sup>	<b>X</b>	<b>X</b>	<b>X</b>
<b>PAC</b> <sup>e)</sup>	<b>X</b>	<b>X</b>	<b>X</b>
Psychiatric symptoms	X	X	X
Carer evaluation		X	
<b>Diagnosis</b>	Final diagnosis and time for diagnosis registered		
<b>Interventions</b>	Continuous registration of interventions and professionals involved		

Assessments applied in the current study in bold characters.

a) Norwegian developed checklist

b) To be rated during the three first months of assessment

c) Assessment is repeated at T3 for individuals with schizophrenia or those who have undergone large changes; Vineland Adaptive Behaviour Scales II, expanded version.

d) ABC, Aberrant Behaviour Checklist.

e) PAC, Psychopathology in Autism Checklist.

Table 2 Demographics, diagnostic distribution and health region affiliation of participants receiving outpatient or inpatient treatment

Variables	Outpatient treatment n=74(49%)	Inpatient treatment n=77(51%)	Df	p	$\Phi_c$	$\chi^2$	$d_s$
<b>Gender</b> <sup>a)</sup>			1	.605	0.042	0.26	
Females	26(35.1%)	24(31.2%)					
Males	48(64.9%)	53(68.8%)					
<b>Age at consent</b> <sup>b)</sup>			149	.665			0.07
Min-max	10-60	10-68					95% CI
Mean (Median)	27.2 (23), SD=11.1, iqr <sup>d)</sup> =17	27.9 (26), SD=10.7, iqr=16					{.25-.39} <sup>c)</sup>
<b>Level of ID</b> <sup>a)</sup>			1	.037*	0.169	4.33	
Mild/moderate	44(59.5%)	58(75.3%)					
Severe/profound	30(40.5%)	19(24.7%)					
<b>Diagnostic groups</b> <sup>a)</sup>			1	<.001**	0.319	15.37	
Severe mental disorder	11(14.9%)	32(41.6%)					
Other mental disorder	33(44.6%)	30(39.0%)					
No mental disorder	30(40.5%)	15(19.5%)					
<b>Health Region affiliation</b> <sup>a)</sup>			3	<.001**	0.586		
North	14(6.9%)	0(0.0%)					
Middle	22(29.7%)	6(7.8%)					
West	10(13.5%)	0(0.0%)					
South-East	28(37.8%)	71(92.2%)					

\*p&lt;0.05, \*\*p&lt;0.001

a) Pearson's Chi-Square Test of Independence, Cramer's V for effect size.

b) Independent Samples T-test. Cohen's  $d_s$  for effect size.c) Lower and Upper Confidence Interval for Cohen's  $d_s$ 

d) Interquartile range

Table 3 Interventions in outpatient and inpatient treatment groups

Interventions	Outpatient treatment n=74(49%)	Inpatient treatment n=77(51%)	Df	p	$\varphi_c$	$\chi^2$	$d_s$
<b>Patient treatment interventions</b>							
Individual therapy n=146	7(10.0%)	38(50.0%)	1	<.001**	0.433	27.34	
Medical treatment n=148 <sup>a)</sup>	41(56.9%)	65(85.5%)	1	<.001**	0.317	14.86	
Differentiated intervention plan n=145 <sup>a)</sup>	24(34.3%)	40(53.3%)	1	.032*	0.021	5.32	
Crisis management plan n=150 <sup>a)</sup>	20(27.4%)	40(51.9%)	1	.002*	0.250	9.41	
Warning signs identified n=150 <sup>a)</sup>	39(53.4%)	50(64.9%)	1	.051	0.110	2.05	
<b>Support treatment Interventions</b>							
Collaboration meetings <sup>a)</sup>	62(83.8%)	72(93.5%)	1	.103	0.154	0.16	
Community staff training/guidance <sup>a), d)</sup>	72(97.3%)	74(96.1%)	1	1.000	0.033	0.00	
Guidance of county level specialized health care n=150 <sup>a)</sup>	25(16.7%)	60(77.9%)	1	<.001**	0.441	29.11	
Family talks <sup>a)</sup>	31(41.9%)	47(61%)	1	.028*	0.192	5.54	
<b>Total number of interventions n=143<sup>b)</sup></b>			141	<.001**			0.95 95% CI {.60-1.30} <sup>e)</sup>
Min-max	1-9	1-9					
Mean (Median)	4.49 (4), SD=1.881, iqr <sup>f)</sup> =3	6.36 (7), SD=2.038, iqr=3					
<b>Duration of treatment in months n=114<sup>c)</sup></b>			1(2)	<.001**			1.53 95% CI {1.10-1.96}
Min-max	1-52	1-24					
Mean (Median)	18.6 (18), SD=12.812, iqr=17	5.86 (5), SD=3.453, iqr=4					

\*p<0.05, \*\*p<0.001

a) Pearson's Chi-Square Test of Independence, Kramer's V for effect size.

B) Welch's Independent Samples T-test. Cohen's  $d_s$  for effect size.

c) Welch's F-test was used for robust testing of equality of means due to non-normally distribution and differences in skewness.

d) Yates' continuity correction for 2x2 tables.

e) Lower and Upper Confidence Interval for Cohen's  $d_s$

f) Interquartile range

Table 4 Mean sum scores PAC &amp; ABC for outpatients and inpatients

		Mean (SD)		
		T1	T2	T3
<b>PAC</b>	Outpatient treatment n=62	90.1 (17.6)	79.4 (15.1)	73.9 (16.9)
	Inpatient treatment n=63	87.9 (22.0)	74.3 (15.1)	72.5 (19.5)
<b>ABC</b>	Outpatient treatment n= 63	63.7 (29.5)	48.4 (25.6)	39.4 (26.1)
	Inpatient treatment n=61	55.4 (32.8)	35.2 (26.2)	33.1 (24.5)

PAC range: 42(min)-168(max)

ABC range: 0(min)-174(max)

The higher the score on the checklists are, the higher the total symptom load.

Table 5 Between-subjects effects of treatment intervention on PAC &amp; ABC during treatment period from T1 to T2

Intervention	PAC				ABC			
	df	F	P	$\eta^2_p$	df	F	p	$\eta^2_p$
<b>Inpatient/outpatient treatment</b>	1	0.73	.397	0.008	1	4.41	.039*	<b>0.047</b>
<b>Medical treatment</b>	1	0.65	.422	0.008	1	0.27	.604	0.003
<b>Individual therapy</b>	1	4.34	.040*	<b>0.049</b>	1	6.42	.013*	<b>0.067</b>
<b>Duration of treatment</b>	1	1.51	.223	0.017	1	2.56	.113	0.028
<b>Age</b>	1	0.93	.339	0.011	1	0.02	.892	0.000
<b>T1</b>	1	27.95	.000*	0.247	1	8.91	.004*	0.090

\*  $p < 0.05$ , large effect sizes in bold

Duration of treatment, age, and sum scores at T1 were used as covariates

## Appendix 1

Cronbach's Alpha for PAC calculated from scores on T1

<b>Scale</b>	<b>Number of items</b>	<b><math>\alpha</math></b>
General adjustment problems	12	.69
Psychosis	10	.76
OCD	7	.75
Depression	7	.76
Anxiety	6	.67

Cronbach's Alpha for ABC calculated from scores on T1

<b>Scale</b>	<b>Number of items</b>	<b><math>\alpha</math></b>
Irritability	15	.87
Lethargy	16	.88
Stereotypy	7	.77
Hyperactivity	16	.82
Inappropriate speech	4	.69