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			ersonality_	Theory -
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Objectives of the Work Proposed

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The purpose of the proposed studies is to test certain aspects of the personality theory by compering the subtest performance on the Wechsler intelligence Scales of patient groups differing primarily in overt symptoms. Two such studies are anticipated. The first will be an investigation of the Wechsler scores of a sample of conversion hysterics, and will include comparisons of comparable subgroups characterized by different symptoms. The second will consist of a comparison of the subtest performance of comparable groups of migraine and ulcer patients. It is proposed that the three major personality dimensions and their interrelationships, (as formulated by A,6 the and as described below) be analyzed within and soross the groups. A.6

For purposes of research, the personality theory offers two major advantages;

- 1. Some aspects of the theory are immediately and objectively verifiable.
- 2. From a long-range point of view, the method by which the theory orders the data permits of relatively specific predictions concerning the individual's behavior.

In order to clarify some of the major theoretical considerations to be investigated, a brief summary of the theory is included here. The summary is based on direct information from the state of the summary is given more explicit statement in oranda, (see bibliography). The theory is given more explicit statement in a separate memorandum by Saunders (1).

According to the theory, the personality structure and function of the individual can be expressed in terms of three basic personality dimensions. These dimensions consist of the Externalizer-Internalizer, the Plexible-Rigid, and the Acceptable-Unacceptable continua. These will hereafter be referred to as the E-I, F-R, and A-U dimensions, respectively.

As the individual develops, he is confronted with the task of recouoiling his basic personality pattern with various environmental and social demands, which require him to modify his position on each of the three basic continue. His modifications represent the extent to which the individual is able to compensate for the limitations on adjustment imposed by his basic personality structure.

The theory further postulates that the individual's modifications of his basic personality pattern, as well as the basic dimensions themselves, are reflected by his performance on various subtests of the Rechsler Scales. Thus, his score on the Digit Span subtest shows his position with regard to the E-I dimension, his ultimate location on this continuum being determined by modifying factors which are indicated by his Arithmetic and Information scores. His Block Design score determines his placement on the F-R continuum, modified by his performence on the Similarities and Comprehension subtests. His position on the A-U continuum is shown by his score on the Picture. Arrangement subtest, modified by his Picture Completion and Object Assembly performance.

the has developed a method of expressing the dynamic structure of the individual, in terms of three formulae which are based on Wechsler subtest performance. These formulae, taken together, represent the development of the individual's personality structure across time.

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2 -2. Method ۰. Since the studies will test different hypotheses, certain procedures for collecting and treating the data will be different for the two investigations. Procedures which will be specific to each study are described first. Those which will be common to both studies are discussed later, under the section devoted to the treatment of the data. A. The Conversion Hysteric Study A16 Conversion hysterics are thought to constitute an excellent group for an investigation of water the personality theory, in that their particular symptoms presumably reflect essential aspects of the individual's dynamic structure. A,6 A pilot study, based on 46 conversion subjects, has already been completed, and has provided results which are consistent with **Conversion** theoretical formulations. Though the number of subjects was relatively small, partio-ularly in the comparisons based on subgroups, the obtained statistically significant findings and a number of trends which were found, are thought to be well worth a more extensive analysis with a larger sample. The pilot study is summarized in the Appendix of this proposal. Its results suggest the following hypotheses: 1. Pronounced sensory and motor symptoms will be more cherecteristic of predominantly "E" individuals. Severe and frequently generalized headsches will occur more often ... in predominantly "I" subjects. (This does not include migraines, 2, which theoretically constitute a different type of symptom). and the first the state of the second Predominantly "I" individuals will complain of fever and less 3. specific symptoms than will the predominantly "E" groups. Both the F-R and the A-U continue will be related to symptom choice 4. 5. Fredominantly "I" and predominantly "E" subjects with low scores on the Picture Completion subtest of the Wechsler Scales will differ in their expressed symptoms, in accordance with theoretical expectations of their respective tendencies toward withdrawal and identification. 5. Behavioral_differences_apart_from_symptoms_will_characterize_the predominantly "E" and the predominantly "I" groups, these differences_depending to some extent on the location_of_the_individual on the F-R and A-U continus. Sample 2 The sample will consist of approximately 100 subjects, whose medical records do not indicate neurological pathology, and who have been diagnosed as conversion hysterics by examining neurologists. It is anticipated that the age range will not go below 15 or above 49 years, and that mentally retarded subjects will be excluded. Specific Procedures The occurrence of the various and formulae will be determined 1. first for the group as a whole. 2. Wechsler subtest performance of comparable subgroups characterized by different symptoms will be compared. 3. Specific hypotheses pertaining to the relationships between symptom choice, personality structure, and behavior, as defined by the theory, will be tested. 1.0 OTS-16, Pg. 3

الا الديد والاحصر مع 4. The influence on Wechsler_subtest_performance_of_population variables such as age, sex, educational and socio-economic background, and intelligence (as measured by the individual's normal level, in accordance with the theory) will be analyzed, Β. The Comparisons of Ulcer and Migraine Fatients 4-0 Vicer and migraine patients have been selected because their use permits the testing of a number of hypotheses which theory implies. These hypotheses are as follows: A.6_ Theoretically, the predominantly "I" individual looks inward, is, ideationally dominant, and tends toward withdrawal. predicted that such subjects will be more characteristic of the ulcer groups. 2. In contrast, the predominantly "E" individual looks outward, is ر - ا د ا perceptually dominant, and environmentally sensitive. It is pre-dicted by **contract** that the migraine patients will consist of subjects predominantly in the "E" category. 3. It is further anticipated that the strength of the "I" or "E" component of the individual's personality, as determined by the three formulae, will be a significantly differentiating factor. 4. With respect to the F-R continuum, it is predicted that ulcer patients will be predominantly "F" individuals. The "F compen-1 sated" subjects in particular should tend toward ulcers, because 4 of the continual physiological and psychological stress with which their equilibrium is maintained. Theoretically, low Block Design scores plus low Similarities performance should be more typical of ulcer sufferers, since a low Similarities score indicates a tendency toward repression. On the other hand, a high Similarities score in a low Block Design record points to greater control of emotionality and therefore to less need for repression, which would represent a contra-indication of the formation of ulcers. -----It is hypothesized that the migraine patients will consist 5. chiefly of predominantly "R" subjects. Compensatory factors, 103. 103. 103. corresponding to those stated above in connection with predominately "F" groups, will be studied for the predominantly "R". subjects. _____ It is further hypothesized that the strength of the "F" or "R" 6. components of the individual's personality structure, as represented by the three formulae, will be a significantly differ-____ . . entiating factor. It is also antioipated that the quality of the individual's 7. ----social relationships will be related to his psychological equilibrium, and possibly to his symptom choice as well. _ Therefore, his development along the A-U continuum will also be studied. Sample Approximately 50 ulcer and 50 migraine patients are anticipated. Inv 🔅 sofar as possible, the groups will be limited to those without evidence of further medical complications. The diagnoses will be medically de-. ên. termined. Groups comparable with respect to age; sex, educational and socio-economio levels, and intelligence (as measured by normal levels) will be used. It is anticipated that subjects will be restricted to those between the ages of 15 and 49, and will not include the mentally retarded.

Specific Procedures

1. The occurrence of the various formulae will be studied ... within each of the groups.

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2. The occurrence of the various formulae in the groups will be compared.

3. Specific hypotheses related to the symptoms of ulcers and migraines in terms of the theory will be tested.

Treatment of the Data

The experimental data will consist of the three formulae, computed for each subject, and based on weighted scores from the Wechsler subtests. Further, scores will be derived from a theory-determined weighting of various degrees of compensation of the individual's basic tendencies, to produce three single scores for each subject on each continuum. These will be interpreted as representing the strength of the basic dimensions within the individual's perconality configuration.

The data will be treated in accordance with theoretical predictions. Contingency tests, (Chi-square and Fisher's exact tests), will be applied, to determine the differential incidence of the various personality configuretions within and between the groups.

In analyzing the results for the strength of the basic tendencies, tests of the differences in location of these score distributions within and between groups will be performed by means of the t distribution, or its nonparametric analogue, depending on the nature of the data obtained. The influence of pertinent population variables on test performance will probably be analyzed by appropriate analysis of variance techniques.

Although the studies will be undertaken to test a theory, (for which onetailed tests of significance are sometimes used), only two-tailed tests will be amployed, in order to permit the interpretation of contratheoretical results.

3. Period of time

A one-year project is anticipated.

Estimated Budget

Psychometrist and Research Assistant	6.000
Go-Principal Investigator (part time)	3 000
UIWF1081 ASSISTANCE_(DEFT TIMA)	
Miscellaneous	1,000
(Psychological Test Equipment, Office Supplies, Telephone	ā Travel)
Total of Direct Costs	
Indirect Cost Allowance	1,770

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7. Other Sources of Support

Support has not been nor is being requested of other foundations.

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k and a second sec	A Pilot Study in Personality	n Theory		i
	with Conversion Hyster	ics		
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Sample AG				
	of 46 subjects medically e	14 - 14 - 1 4 - 1 4	1 "	¢
and the state of the second of the second state of the second stat	TRANS AN AANDANG AN ATOTA	ics by the exam	ining neurologist	6
	ked indications of neurolo with a mean of 34,41. No			
mean 10.44. There we	re 14 maios and of lemates	. They vere to:	ted on the Nechsle	lr
Bellevue Intelligence			· · · · · · · · · · · · · · · · · · ·	
Method		15 P		
The experimental data	consisted of the three	formulae	, determined for	
each subject on the	ASIS OF AIS WEIGHTED SCOre	and in compar	isons of subgroups	, ;
tik annig ti nidelan	forent procedures were fol were obtained, they are s	TOAGO JU LUG PAR	o cloan or anarlas	6,
I. The Pilot Stu	idy with the Whole Group, ($\underline{N} = 46$		÷.
A. Procedure		₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩ 	ener of the south and the south the set	وليو (مورده م
To the attent	pt to study symptom-choice,	the following_	groupings were	•
used for the	various symptoms which the	subjects manif	ested:	
1. Fainti	ing spells, dizziness, drow	siness, and gen	eralized states of	
veakne	ess, shaking, and nausea.	<u>-</u>		
2. Pain	in areas other than the hea	d region.		
3. Headad	ches,	· · ·		
	ysis of extremities, and sp	Asma, jerka. 80	d numbress in those	
4 % LOLOT	A A A A A A A A A A A A A A A A A A A			: .
5. Pronos	unced sensory symptoms.			- T
		- the head and	face region	
	ess and jerking movements	Th the bead and	TROATORIAN.	•
B. Treatment	t of the Data and Results	I		
1. Pronov	unced sentiory symptoms (#5)	were found in	7 of the 46 subjec	ts
	ere significantly more char uals (as. determined by the	"ACTAPISLIC UL U		n
, GIVIG	uara (as. determined of the		· · · · · · · · · · · · · · · · · · ·	
	ۇچىكىرىنىكە ئېنىدە بۇلىچىدىسىكى <u>بەر</u> كەنبالىرىپى	• · · · · · · •		
1 One-tailed tests	of significance were used a	then direction w	as predicted in	•·····
advance. Otherwi	SO! (A0-(9)Ted forts mate (ised. Reparted	"trends" fell	· · · •
	.20 10/913.			
within the ,10; to				
within the ,10 to $2 p_{<.02}$ by Fisher	's exact test.	•		
	's exact test.			

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	level ³ did not significantly influence the occurrence of these sympe
	toms, nor were any significant differences obtained in the
	direction of increased hunders of subjects in the subjects in
	(IC and EC) was observed. 2. In studying the formulae of subjects with pronounced sensory symptoms, the suffered from hysterica.
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	blindness were F-undompensated compensated a further study of such
•	subjects, of whom there were 5. Iness 5 toro atminest formulae, 7 be-
	coming "E" individuals according to the second, near ting signif-
	icantly from the hypothesis of an equal E-1 splite."
	The above-mentioned results are thought to be in line with contained in the theoretical formulations in the following respects. Disturbances in the
•	theoretical formulations in the following rabjects, who are theoretically sensory areas would be more typical of "E" subjects, who are theoretically perceptually dominant and who, if maladjusted, would tend toward defensive-
	ness in this respect.
	Further, in connection with the placement of the individual on the P=R continuum, it would be anticipated that subjects in whom the "R" com-
	ponent was comparatively recent (i.e., appearing in the third formula only) would remain affected by their "F" characteristics, and be therefore
	subject to confusional states.
· · ·	3. Numbress and jerking movements in the head and face regions (#6) were
	significantly more prevalent among the a subjects the joraths
-	latter were primarily motor disturbances, sit of the subjects the
•	trend in the direction of increased numbers in the "E" individuals was observed.
	These findings, too, are thought to be consistent with the theory, in
	that motor disturbances would be expected in "E" groups, who are both perceptually dominant and environmentally sensitive.
	A BELINATE AND A AND AND A AND AND AND AND AND AND
	weakness, sheking, and nausea (#1), which occurred in 15 of the 46 subjects, were significantly more characteristic of the dull group
•	than of the brighter subjects. A trend was also found in the
•	
	3 For analyses based on age, the group was split at the median (37.69), creating
₹	a young and old group saon with 25 subjects, house obtained. In studying the
	influence of normal level, a bright group of a subjects with normal levels below 10
	10 and over, and a dull group of 15 individuals with normal mean ages and were used. No significant differences were found between their mean ages and their sex distributions.
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; ; ;	4 ge .004 by the binomial test.
	5_2 . 015 by Fisher's exact test.
	6 ge .008 by Fisher's exact test.
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na Alfred Antonio and Antonio		कुल्लुकुल मिल्ले केल्प्सर कुल्ल		
	diraction of WO	re subjects in the	uncompensated versus the	<u></u>
•	compensated gro	ups, with the great	est number of individuals egory. Age was a non-	
	TAILING 10 400	andombattaa taa	egory. Age was a non-	
	significant fac		· · · · · ·	
	Those Pecults are S	upportive of the th	neory, in that a less sturbance; reflected in sensory	<u></u>
	differentiated leve	1 of perceptual dis	sturbance; reflected in sensory dominantly "E" subjects who are	المتناه مدغات الجنفريتان
-	symptoms, would be	anticipated in pred	dominantly "E" subjects who are allectual functioning.	· _ · * * · · · · · · · · · · · · · · ·
	oharaoterized by a	lower level of inte	alleotual functioning.	22
	5. The following	trends were also not	ted.	
		g the group into for groupings, subject	ur quadrants according to ts were distributed as follows:	
	6		Uncompensated B	
· P	Un Un	compensated I	<u>0</u> 8	
		10		
	C	ompensated I	Compensated E	
	*	16	. 1%	
			and toward the greatest numbers	<u> </u>
•	It can be seen	that there is a tr	end toward the greatest numbers mpensated groups. While more cinitive breakdown in terms of	
	of subjects is	TIJUS JU CUA CAO GO	Al-Lature breakdown in terms of	
	consistent wit	h theoretical expec	stations.	
		L	anaral 1 m comments t canaral 200	
	b. A trend to	ward fewer symptoms	be more characteristic of the beying a greater number of	
	in their r	Ature, was round t	IO Tedmine areatar number of	
	"I" group	the subjects in subjects in	ts. While the two compensated	a part
	Largertage	and no marked diffe	erence in these respects, all	e`
· · · · · · · · · · · · · · · · · · ·				
· · · · · · · · · · · · · · · · · · ·	symptoms.	while only 4 of the	e 8 uncompensated "E" in-	
	dividuals	did so, the remain	der complaining of 3 or more.	
	Naither a	50 UOL NOLMAY TAAAY	influenced these results to	
	any marked		·	
	ma increased	number of reported	symptoms in the "E" subjects, as enacificity, may again reflect	<u> </u>
	wall as their	relatively greater	specificity, may again reflect	
	their percept	usl dominance and a	ssociated specificity, as inant, more abstract "I" group.	
	compared to t	he ideationally dom	inant, more abstract "I" group.	
		The manual	twands were obtained with re-	
•	6. No significan	amaining symptom fr	oupings, However, a more	
	theopy or int	ad classification o	f these symptoms is thought to	
	be worth atte	moting.		
		· · · · · · · · · · · · · · · · · · ·		
-		Subgroups. (N = 14	n /	
II. The	Pilot Study with	Subgroups. (N = 14	•/•	
A .	Procedures		· · ·	
, ·	ANHORONO WAS SALAST	ed out of the whole	a sample, consisting of all sub-	
	cts with low scores	on the Picture Con	poletion subtest of the Wechsler or more in relation to the in-	و این میں .
Sci	ale. A low PC scor	A ARS GALTHAG CO	A aubiects mat this oriterio	n.
	vidual's normal lev	er. fourteen or u	Abanatial distinction made in	
Th	is subgroup was one	Sau nacousa or the	and a pradominant	🝸 – Öler III.
th	e meaning of a low	PU SCOFO IN a prod	the former suggests wit	h- 85
"E	individual. The	ion of autism. On	the other hand, in the latter, 1 antification. It was therefore	
dr.	dicates withdrawal	chiefly through ide	entification. It was therefore reflected in symptom choice.	<u> </u>
1n + h	ought that this di	stinction might be	reflected in symptom choice.	
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tanti ta	. 🖤 🖅 (12. – 9° – 14. – 18. – 18		
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B. Treatment of	the Data and Results		
	14 "low PC" subjects were fo	und to be in the ""1"	
Seven of the	7 in the "E" group, as deter	mined by the first	
A A		747 ANA (WAS~1111=	
companyatad.	The ground ware closely dat	ched in terms of sex o	1s• */
AAA		THARKT-99 4077 88 AM	
verbal, perf	formance, and full-scale IQ, a	nd range and mean PC	
scores 7		·	
The followin	g results were obtained:	· .	
		A - Inam-handachas - AN	
1. None	of the 7 "E" subjects suffer of the 7 "I" subjects suffer	d from savara haadach	8
· 811	e: None of these were migrat	nes the latter being	<u> </u>
ehca	Tt in the conversion group.	This is in line with	
than	ratical erpectations. Since #	nigraines constitute a	en e
diff	erent symptom in terms of the	individual's dynamio	· · · · · · · · · · · · · · · · · · ·
stru	ioture).		Ъ.,
· · -		·	
It is th	ought that these results are	strongly supportive of	
	A DP theoretical views, in the	IT DAADACGAS WOULD DU I	
Py apt=to_c	occur in the ideationally-dom	Inant I individuals.	
in wost	cases the "I" subjects report	ted neadacnes of a wor	
1035_807	neralized nature, suggesting the suggesting the such individuals.		
apeoirio	DITA IN SHOR INGIAIGONAL		
2 07	the headache sufferers, 3 rep	orted no additional sy	nptoms.
	LA MANA "HEND" SOCIUSION S ACC	ording-to the third io	rmulo.
a service of the same and the service of the servic	ware also lei across the thr	se formulas. The rema	ining
	subjects included 2 "1ru"100	JAJOATZ' T …eLA'… aud	L (1977
	" Thus all of them good w	ded as "unacceptable"	010
the	A-U continuum, while 6 were	originally "socepteol	9
· · · · · · · · · · · · · · · · · · ·		divetaget made by the	1 an 1
It may t	well be that the efforts at a was further complicated by	thain unaccantability.	
Subject:	ould theoretically reflect in	creased difficulties 1	n the
and use	ual's social relationships, th	us increasing the need	for
Compense	ation.		
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
3. In 1	view of the apparent distinct	ion in connection with	
has	dachas, the remainder of the	conversion subjects (101
	washawland by low PC scorAs!	WAA SUPVOVOO IOP TOG	
000	urrence of this symptom. Nin	SUCH SUDJOCIS WORD I	Illiant
4_1	n the "I" group and 5 in the	L, a crear of the set	
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المراجع في المراجع علي والي من المراجع ا		<u> </u>	
Ø		Panga for the T group	VAS
Each group included 6	females and 1 male. The age	E group was 20 to 49	00010
from 17 to 44 years,	mean 33.86, while that of the t differences were found betw	aan the age ranges. N	
Janual a Anna Aha Transhi	人名卡希 的复数内面条件 美的人物 苦 工具 上之, 田均昌	U TO'TA' GUA TAT ANA 3	
		APANCAN DULAINOU UGERG	en them
and performance IOs.	In both, PC scores were -3 to	0 -7, means -5.00 & -4	,63 (NS)
and hat for many a far	ч		
8_p c.001 by Fisher's	avant tast.		
E C.VOL OF FISHER'S	eisot (951.		4 · · · · · · · · · · · · · · · · · · ·
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$\frac{9}{2}$.016 by the binom	18 <u>1 (851.</u>	*	
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	-10 -	
	difference.	
	This finding tends to support the rationals for conducting further	
	Study of 10% for 1001V100815 with additional subjects, rethen then	
	considering the division in terms of "I" and "E" components alone.	
	4. In the "E" group, a trend toward symptoms centering primarily	
	in the area of the legs and feet was noted. This was observed in 6 of the 7 "E" subjects, as opposed to 2 of the 7 "I" in-	
	dividuals. There was also a predominance of walking diffi-	
	culties among the "E" subjects.	
	Since 6 of the 7 in the "E" category were compensated, it may be	
	""""""""""""""""""""""""""""""""""""""	
	"I" component, mitigating against a primarily environmentally dominated orientation.	
	domrup_cad_ot_faurg (100*	
	5. On the A-U continuum, in contrast to the "I"group, all of the	
	"W" SUDJECTS DADAD AS "ACCADIANIA" ACCADING IN ACCADENCE IN ALLOS	
	LUMBULS,4Y SAITIAA TA PRA "UNAAAANTAH AAAaadii a.a.	
	sound, - and were apout equally divided in this respect on the	-
	third.	
	M	
	These findings suggest that the A-U continuum may be relevant to	
	symptom-choice, perhaps operating differentially with basically different types of personality configurations.	
	errent of the parsonality configurations,	
	6. On the F-R continuum, both groups were approximately equally	
•	SATANYN VYNYY V HUVUL F GUU A COMPONENTS BOCARAING TA THA FLAAD	
	GIN_SUCONG_IOFWUIGE. HOWEVER, according to the third #	
	the I Subjects concluded as "R" individuale while the HEH	
	group remained about evenly divided between "R" and "F."	
	This trend toward increased wind the second states of the	
	This trend toward increased rigidity on the part of "I" subjects with low PC scores would have considerable theoretical importance,	
	if substantiated by further investigation, It also constitutes a	
	AVEINOF INGIGATION THAT THE THREE HASIN CONTINUE and that three	
	Lougelenships must all of taken into consideration in analyzation	
	personality functioning, a point of view which the theory stresses.	
	•	
	7. When the subgroups were combined into a single "low PC" group,	
	10 T 191, 8 S120171C80717 6966769 8000544-48 (444044444444444444444	
	opposed to "uncompensated" subjects were found (when compared to the possibility of an equal division)." The relevance of	منطق الم
	this finding to the theory bas division)." The relevance of	
	this finding to the theory has already been commented on under results obtained for the whole sample.	
	ranario opiginad fou rua auore semble*	
	8. Significant behavioral differences apart from symptoms were	
	also obtained in comparing the two "log PC" groups Among the	
	also obtained in comparing the two "low PC" groups. Among the "I" subjects, 5 of the 7 were characterized by periods of	
	South distuption of control with outbreaks of irrational	
	Buoilonal gisplay, while none of the "R" subjects demonstrated	
	this behavior. 13	
	Thee	*
	These results, which were based on the psychological and psychiatric	
	records of the subjects, strongly suggest that further investigation with a larger sample might serve to support the thermal and particular to support the serve to serve to support the serve to supp	
	with a larger sample might serve to support the theory in terms of differential emoticial reactions. It would be anticipated that the	
	AULOFFOID LONG BOONG THE CONTINUE Would be bighte new-to-ant in ALL.	
	connection,	
2 < -	Ol6 by the binomial test.	
2<.	016 by the binomial test.	

12 13 p < .015 by the binomial test. p < .025 by Fisher's exact test.

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	Summary of th	e Pilot Study	
		cally significant results as well as a number of the	rends. in accord
		LASI SYNAATSIANS, WATA TANNA IN 8 ULLUL DLUUJ VUDV	
	- wawalan subi	LATA THA FINALAAR WAFA PALATAA TO THE LIFER WOULD.	
	- Almanatana at	「「「「「「「」」」」」「「」」」」」」「「」」」「「」」」」」」」「「」」」」	
26		AWAWAAG IN BADAUIAN AS WALLAS IN SVMDLOD COUPUNCIEVE	AOTO CITA HALAMA
1.7	The conversion	on group appears to be well suited to a more extens , since symptom-choice presumably reflects basic a	speats of the in-
1 () ()	the theory of the chevry	mamic structure. The preliminary work has suggest	ed a number of
	hypotheses wi	bich warrant further testing with a larger sample.	
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