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Data for the 40 subjects that had been used by the earlier study were employed in forming a multiple regression equation. Additional data pertaining to the four measures were gathered on an independent sample of 44 subjects.

In Group I a significant positive relationship (R = .56, p < .05) between the four variables and success was indicated; however, when the data from subjects in Group II were fitted into the equation, the predictions were far less accurate. Inter-correlations of the variables were computed for both groups. These correlations indicated no significant relationships between any of the four factors and success for Group II. Therefore, this study did not find support for the findings of the previous research.

In an effort to evaluate the effectiveness of the Phillips Scale as a predictor of successful job placement, 130 VR clients were rated using information gained from hospital case histories. These clients were divided into two groups, Group I containing 70 subjects and Group II containing 60 subjects. The results of a point biserial correlation between the Phillips Scale and success in job placement for Group I and Group II considered separately indicated that the Phillips Scale was not a significant predictor of success in these groups. When the groups were combined, the point biserial correlation coefficient was -.2055 (p < .05). Comparison of the difference between the means of the successful and unsuccessful subjects in Group I by use of a t test yielded non-significant results; however, in both Group II and in the combined group there was a significant difference between means. The t's were 1.70 and 2.39 respectively for Group II and the combined group, both of which were significant at the .05 level using a one-tailed test.

Suggestions for possible restricted use of both of the above selection methods were discussed with emphasis placed on the need for additional research.

# AN ATTEMPT TO PREDICT SUCCESS IN A VOCATIONAL REHABILITATION PROGRAM

Ву

David P. Rice

A Thesis Submitted to the Faculty of the Graduate School at The University of North Carolina at Greensboro in partial fulfillment for the Requirements for the Degree Master of Arts

> Greensboro July, 1967

> > Approved by

paners phenham

### APPROVAL SHEET

This thesis has been approved by the following committee of the Faculty of the Graduate School at The University of North Carolina at Greensboro, Greensboro, North Carolina.

Thesis

Oral Examination Committee Members Balan & James

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#### INTRODUCTION

One of the foremost needs of Vocational Rehabilitation (VR) programs is some knowledge of factors associated with client success. The need to understand these factors appears to be an imperative step toward achieving the eventual goal of being able to anticipate and identify problem areas that may be changed to ensure a higher probability of job success.

This need to identify individual differences related to job success is not limited to VR; it is of equal importance to organizations which in many cases suffer a large financial loss when an employee who has been placed and trained does not perform at the expected level. One promising method of screening potential employees is the use of biographical data. Soar (1956) investigated the use of personal history data as a predictor of success in service station management by obtaining ratings from six supervisors of 29 service station dealers. The dealers were rated on such factors as business sense, emotional maturity, promotion, responsibility and personality. These ratings were then correlated with 39 personal history items, 14 of

which were retained for use in making up the scoring key.

Using a cross-validation method, a correlation of .47

(p < .05) was obtained between success and the biographical inventory.

Using a similar method, Scollay (1957) identified 68 personal history items which were related to success in promotional activities. The 116 subjects were then classified by their superiors into three groups, successful, average, and failures. A significant relationship was revealed between the personal history items and success.

Several studies (Imre, 1963; Ghiselli, 1963; Crookes, 1961) have investigated the relationship between intelligence and job success. In a study which is representative of the general findings, Ponds and Bills (1933) found turnover to show a varying relationship with intelligence in different occupations. Also, they found that the relationship between intelligence and turnover varies with the sex of the employee; extremely intelligent women tended to have a higher rate of turnover, possibly as a result of their limited opportunities for advancement.

A scale which has been found to be related to job success is the Orientation Inventory (Ori) developed by Bass (1962). The Ori was designed to assess three kinds

of orientations or satisfactions related to work: taskorientation, interaction-orientation, and self-orientation.

Task-orientation identifies the extent to which the
individual is concerned about completing a job, working
persistently at the job and solving problems. Interactionorientation reflects the extent of concern with maintaining happy, harmonious relationships in a superficial way,
often making it difficult to be of assistance in solving
problems. Self-orientation displays the individual's
emphasis and concern for direct rewards to himself, ignoring
the needs of his co-workers or the job itself.

In a study in an industrial situation, (Dunteman and Bass, 1963) 66 first-line foremen were sorted by their supervisors into groups of "top," "middle," and "low," performance on the job. The Ori was given to these subjects. Task-orientation was found to be positively associated with merit. Distefano and Pryer (1964) had two VR instructors identify the 14 who were higher and 14 who were lower in motivation among 29 VR clients who had been in the VR program from two to seven months. Higher motivation patients were defined as displaying drive, steadiness, and persistence until tasks were completed. The instructors agreed in the placement of 13 of the 14 cases in each category.

The results revealed that the high motivation group was significantly higher in task-orientation on the Ori than the low motivation group. Distefano, Pryer, and Rice (1966) demonstrated that self scores were negatively related to success while task scores on the Ori were positively related to successful job placement in a VR program.

The idea that length of hospitalization has an effect on later adjustment has been presented by numerous writers (Schwartz and Waldron, 1963; Mahren, 1963, and Lehrman, 1961). Wing (1962) found that with long periods of hospitalization patients gradually developed an attitude of indifference toward events outside the hospital and became less and less independent. A negative relationship between the length of hospitalization and successful placement on a job was noted by Distefano, Pryer, and Rice (1965). Sommer (1959) reported the same relationship. He reported that contact with the outside world decreased with the length of hospitalization and that the patient's values became increasingly deviant. Clearly this type of adjustment to hospitalization would seem to make adjustment to the demands of living in the community more difficult.

In brief, these studies lead us to expect the successful client to have a relatively high IQ, a low self

score and a high task score on the Ori, and a relatively short period of hospitalization before entering the VR program.

A measure which has been used to predict success for psychiatric patients is the Phillips Scale of Premorbid Adjustment (Phillips, 1953), which was developed on the assumption that work record and social and sexual adequacy in the premorbid period are related to good prognostic potential in schizophrenics. Farina and Webb (1956) designed a study to evaluate the predictive value of the Phillips Scale for (a) success or failure on a trial visit back to the community and (b) for long-term hospitalization status (i.e., whether the patient was in the hospital or in the community some years after his first admission). Premorbid adjustment was found to bear only a slight relationship to the ability of schizophrenic patients to remain out of the hospital on early trial visits. However, it was found to be significantly related to the patient's later hospital vs. non-hospital status. These authors concluded that the Phillips Scale is a valid predictor of long-range prognosis for schizophrenic patients and may be useful in predicting which patients are more likely to return permanently to the community.

These findings were supported by a later study by Farina, Garmezy, and Barry (1963) in which schizophrenic patients were followed up 5.5 years after their initial admission and were classified into groups of recovered and non-recovered subjects. In the comparison of the recovered group with the non-recovered group, patients in the latter group showed inferior social and sexual adjustment on the Phillips Scale prior to the illness. A similar study by Query and Query (1964) reached identical conclusions.

Previous work involving the Phillips Scale has been largely limited to schizophrenic subjects; the present study attempted to evaluate the effectiveness of the Phillips Scale on a population of mixed psychiatric diagnoses.

#### METHOD

The purposes of the present study were: to replicate the Distefano, et al (1966) findings on a new sample, to test the ability of a multiple regression equation (to be formed from the four factors previously indicated to be related to success in a VR program) to predict VR success in an independent sample, and to evaluate the Phillips Scale of Premorbid Adjustment as a predictor of success in the program. Therefore, Ori scores, IQ, and number of weeks in the hospital were collected on a new sample; a multiple regression equation was formed on the data from the Distefano group and was used to predict success or failure in the new group. The two samples were considered both independently and combined in assessing the predictive ability of the Phillips Scale.

The subjects for this study were clients in a

Vocational Rehabilitation Unit in Pineville, Louisiana. A

formal program of Vocational Rehabilitation services was

begun for the mentally ill at Central Louisiana State

Hospital in January 1963. The VR Unit, located adjacent to

the hospital proper, serves primarily as a center for evaluation, training, and work conditioning. Most of the clients who participate in this program are referred from the hospital and reside in a dormitory adjacent to the VR Unit.

There are some clients who participate in the program on an out-patient basis; however, these were not included in the group studied.

The two major programs of the VR Unit are evaluation and training. The evaluation period is an eight-week program of closely supervised activities designed to assist in assessing the vocational potentials of clients. The resident training program is divided into three areas:

Business Education, Home Economics, and Industrial Arts.

Non-resident training ranges from highly technical (or college) level to on-the-job training situations of a routine nature.

The subjects for Group I in this study were 75

VR clients, 36 males and 39 females, of various psychiatric diagnoses. The general criteria for membership in Group I and Group II are as follows. The successful clients in Group I had been placed on the job before June 1, 1964; the unsuccessful clients had been returned to the hospital before June 1, 1965. Group II consisted of 84 VR clients,

52 males and 32 females; the successful were placed between June 1, 1964 and June 1, 1966; the unsuccessful were returned to the hospital between June 1, 1965, and the last day of data collection which was August 28, 1966. More definitive criteria within these groups were applied as follows.

### Measures

Success or failure. All subjects in Group I for whom Ori scores, IQ, and number of weeks in the hospital were available were utilized in forming the multiple regression equation; there were 40 subjects with complete information. In this group, success (N=24) for the client was defined as staying out of the hospital for a full calendar year following job placement. Failure clients (N=16) were defined as those who returned to the hospital in less than one year after job placement or who had returned to the hospital before completing the residential program.

When a VR counselor worked with a client who had a mental disability, the length of time on the job before closing the case was left to the discretion of the counselor; however, a minimum of one month on the job was required before closure and in most cases the follow-up period was considerably longer. Data for the subjects in the Distefano, et al, (1966) study indicated that if the patients remained out of the hospital for three months,

the rate of return to the hospital was insignificant.

Information about whether or not subjects who had remained out of the hospital had also continued on the job after the VR Unit had closed their cases was not available.

There were 35 subjects in Group I for whom data on the Ori, IQ, or number of weeks in the hospital were incomplete. Therefore, they could not be used in the development of the multiple regression equation, but they were used in the evaluation of the Phillips Scale. For these subjects and for all of the subjects in Group II, success was defined as being placed on the job and remaining out of the hospital for at least three months. As in Group I, all of the subjects in Group II who had the four measures in question were used in the multiple prediction study (N=44: 19 successful, 25 failures).

Phillips Scale. The Phillips Scale (Phillips, 1953), a rating scale of work record and social adequacy in the premorbid period, has been used to predict prognostic potential in schizophrenics. In the present study 130 of the VR clients were rated on the Phillips Scale (See Appendix A), using data gained from hospital case histories. These case histories had been compiled using information from the patient and his family and statements from the referring

physician. All ratings were made by a rater who had previously worked at the VR Unit; however, she was acquainted with only four of the subjects and she attempted to disregard any personal knowledge concerning their cases. Twenty of the subjects were also rated by the author. Comparison of these ratings established an inter-rater reliability coefficient of .43 (p  $\langle .05 \rangle$ ). The second rater's scores were used only for a reliability measure and not in the actual evaluation of the Phillips Scale. Sufficient information was available to rate 70 subjects in Group I and 60 subjects in Group II.

Number of weeks in the hospital. Number of weeks in the hospital was obtained for each subject by computing the number of weeks between the latest hospital admission and the date of entrance to the VR program. To make this figure an accurate estimate of number of weeks actually in the hospital, the number of weeks that the client was away on leave was subtracted from the total number of weeks.

Ori and IQ. Task and self scores were obtained from the Ori (See Appendix B). IQs were obtained using the Wechsler Adult Intelligence Scale (WAIS). The Ori and WAIS were given before the subjects were considered for admission to the VR program and were a part of the selection procedure.

These scores and the information necessary for all the other measures were obtained from the patient's hospital record or VR file.

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#### RESULTS

Analysis of the relationship between Phillips data and success was carried out using a point biserial correlation on Group I, Group II, and on both groups combined. The results indicated that the Phillips Scale was not a significant predictor of success in Group I or Group II; however, a significant correlation of -.2055 (p (.05) resulted when both groups were combined. (A high Phillips score indicates poor premorbid adjustment; hence, the negative correlation.) The means of the successful and unsuccessful subjects in each of the three groups were compared by t tests. The results indicated that the difference in the means of the successful and unsuccessful subjects for Group I was not significant; however, in Group II and in the combined group there was a significant difference between the means of the successful and unsuccessful groups. The t's were 1.70 and 2.39 for Group II and the combined group respectively, both of which were significant at the .05 level using a one-tailed test. The means, correlations, and t test results for each group are presented in Table 1. A graph indicating the distribution of scores for success-

TABLE 1

Means, Correlations and t's

of the Phillips Scale

		Mean Phil	lips Score	<u>e</u> 1	
	<u>N</u>		Failure	_rpb	t_
Group I	70	19.30	22.47	1844	1.56
Group II	60	16.82	20.59	2149	1.70*
Combined	130	18.09	21.67	2055*	2.39*

<sup>\*</sup>p < .05

<sup>1</sup> Between Phillips Scores and Success

ful and unsuccessful clients in the combined group can be found in Figure 1.

The second part of the study involved the formation of a multiple regression equation from the data on the subjects in Group I and the use of this equation to predict success in Group II. As has been indicated before, all subjects in both groups for whom the four measures used in the multiple regression equation were available were used. The four factors entered into the equation were: task and self scores on the Ori, number of weeks in the hospital immediately before entering the VR program and IQ. Failure was given a weight of two; success a weight of three. The four factors in Group I yielded the following prediction equation:

Success = 1.3437 - .0000365 weeks + .0170 task - .0168 self + .0117 IQ

In Group I a significant positive relationship (R = .56, P(.05)) between the four variables and success was indicated. Figure 2 indicates that when these subjects' scores were fitted into the equation the predictions were relatively accurate. However, when the data from subjects in Group II

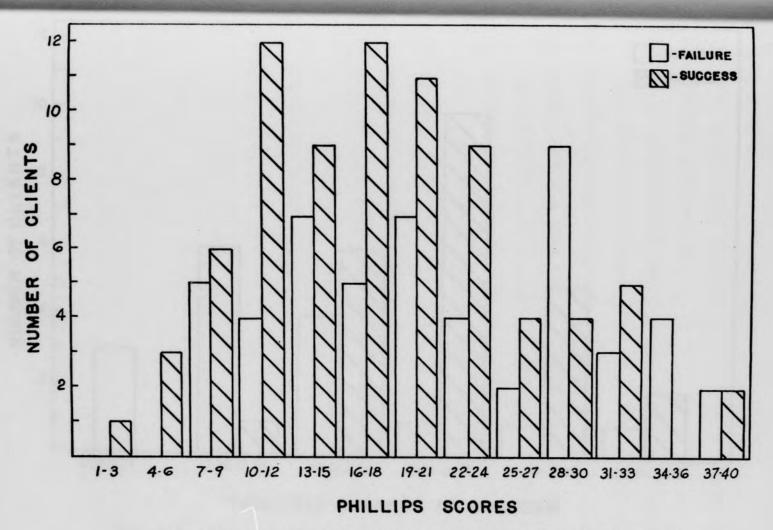


Figure 1: Distribution of Phillips Scale Scores of Successful and Unsuccessful Clients in Group I and II Combined

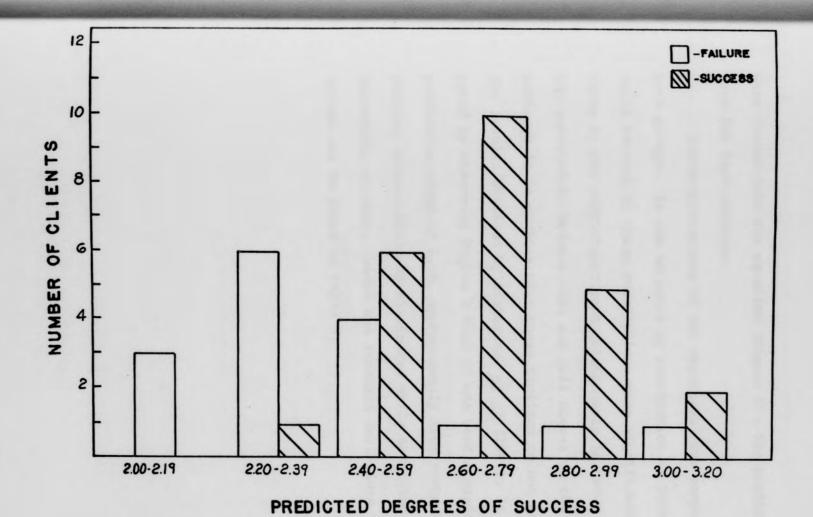


Figure 2: Distribution of Predicted Success for Clients Who Were Successful or Unsuccessful: Group I

were fitted into the equation (Figure 3), the predictions were far less accurate.

Intercorrelations of the variables were computed for both groups. It can be noted by examination of Table 2 that, while several of these correlations were significant in Group I, the only significant relationship in Group II was the correlation between task and self scores on the Ori. Although it is obvious that these findings do not replicate the results obtained by Distefano, et al (1963), it can be noted by observing Figure 3 that if one used a minimum prediction score of 2.19, approximately five percent of the failing clients could be eliminated while retaining all successful clients. Means and standard deviations for both groups can be found in Table 3.

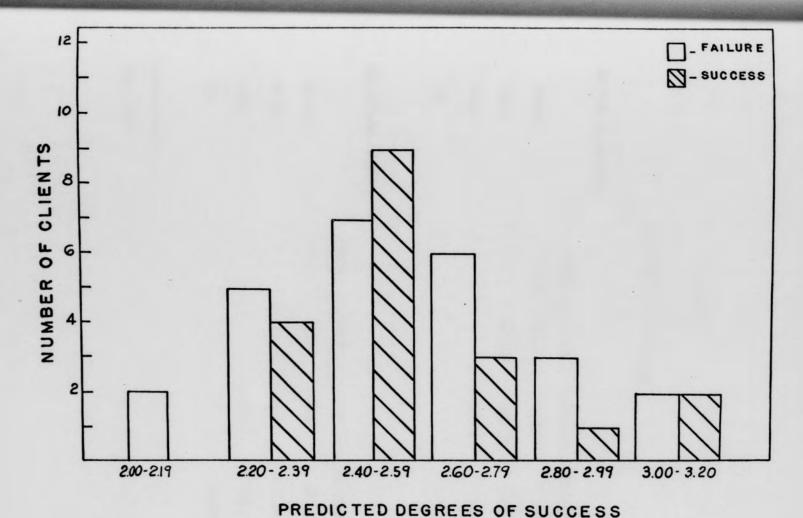


Figure 3: Distribution of Predicted Success for Clients Who Were Successful or Unsuccessful: Group II

TABLE 2

# Correlation Matrices

# Group I (N=40)

	Task	Self	IQ	Success
Weeks	2186	.1642	2156	1462
Task		6172*	.6163*	.5031*
Self			2667	3934*
IQ				.4611*

# Group II (N=44)

	Task	Self	IQ	Success
Weeks	.1203	1464	.0075	.0808
Task		5035*	.2414	.0146
Self			.0434	0575
IQ				.0292

<sup>\*</sup>p (.05

TABLE 3

Means and Standard Deviations of

Variables in Multiple Regression Equation

		Group I (N=40)		Group II (N=44)		
	Mean	Standard Deviation	Mean	Standard Deviation		
Independent Variables						
Weeks	79.62	121.90	73.73	159.15		
Task	29.60	6.33	29.89	6.85		
Self	22.60	5.44	25.75	5.84		
IQ	96.70	11.68	99.91	13.83		
Dependent Variable			•			
Success	2.60	0.50	2.43	0.50		

# DISCUSSION

The results of the first part of this study indicated that there was a relationship between the ratings of premorbid adjustment on the Phillips Scale and success in the program. However, the use of this scale for individual prediction should be of an experimental nature until additional support for the existence of this relationship is available for similar populations. It should be noted that although there was a significant difference between the means of the success and failure groups in Group II and the combined group no such relationship was found in Group I.

One weakness of this portion of the study was the relatively low inter-rater reliability. It is felt that this was probably due to a lack of information in the hospital records rather than to rater inadequacy. When evaluating a client on the Phillips Scale, it was necessary for the rater to make judgments about such variables as behavior toward the opposite sex and sexual development in adolescence. In most cases, information regarding these behaviors was not available. Therefore, it was necessary for the raters to infer adolescent behavior from reports

of later behavior or any other useful material contained in the case history. Of course, one of the most important requirements for an effective use of the Phillips Scale is a detailed hospital record. Any compromise on the hospital record results in a corresponding compromise in the accuracy of the Phillips rating. The Phillips Scale may be a better predictor for samples such as this when there is adequate data for the ratings.

The second part of this study consisted of a replication of the Distefano, et al (1966) study and the formation of a multiple regression equation based upon the Distefano group in an effort to predict success in the new group. Investigation of the data gathered for this study failed to lend any support to the earlier findings. The explanation for the failure of a study to replicate is a difficult task. In most cases, and certainly in this case, one can only state the variables which may have affected the outcome of the study without being certain which, if any, of the explanations are correct.

The most obvious explanation for the results is to conclude that the findings of Distefano, et al (1966) or of the present study were due to chance factors. This

would explain the failure of this study to find support for the earlier results.

Another alternative is that there may have been some changes within the VR Unit since the completion of the first study which have had an effect on the job success of clients. It is possible that during the first years of operation of the VR Unit clients were placed in jobs requiring high task-orientation as opposed to high self or interaction-orientation. It is also possible that during this time clients were placed on jobs which made allowances for personal peculiarities of the client. Perhaps either or both of the above contribute to these discrepant results.

involves the difference in the success criteria for Group
I and Group II. The criterion for success in Group I
was 12 months on the job. In Group II a three month
period on the job was used as the criterion for success.

It could be argued that this difference in criterion measures
could have contributed to the lack of support for the
previous study. However, since examination of the Distefano,
et al (1966) data indicated that there was an insignificant
rate of return to the hospital after a client had remained

on the job for three months, it is difficult to see how this could account for the results obtained here.

On the basis of this study, it can be concluded that the findings of this research preclude the use of the regression equation as an overall predictor of success in the VR program. As has been indicated previously, however, use of the equation could serve to eliminate a certain proportion of clients who have an extremely small chance for success in the program. Prior to using the equation in that way, the present results should be replicated.

Further investigation of the ability of the Phillips
Scale to predict successful job placement in a VR population
is needed. Perhaps Phillips scores derived from more
detailed social histories could be used to efficiently
predict job success.

#### SUMMARY

The purposes of the present study were: to replicate earlier research that had suggested four factors which were related to success in a VR program; to test the ability of a multiple regression equation formed from these four factors to predict success in an independent VR sample; and to evaluate the Phillips Scale of Premorbid Adjustment as a predictor of success in the program.

Data for the 40 subjects that had been used by the earlier study were employed in forming a multiple regression equation. Additional data pertaining to the four measures were gathered on an independent sample of 44 subjects.

In Group I a significant positive relationship (R = .56, p < .05) between the four variables and success was indicated; however, when the data from subjects in Group II were fitted into the equation, the predictions were far less accurate. Inter-correlations of the variables were computed for both groups. These correlations indicated no significant relationships between any of the four factors and success for Group II. Therefore, this study did not find support for the findings of the previous research.

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APPENDIX A

## THE PHILLIPS SCALE OF PREMORBID ADJUSTMENT For use with men and women

### I. PREMORBID HISTORY

A .	Panant	Savual	Adjustment
44.0	Medello	DEVIGT	mu, lub bileil b

		Score as sexual contact; when information is not explicit, use inference to get at this actual behavior.			
1.	Stal	ole heterosexual relation and marriage			
2.	Continued heterosexual relation and marriage but unable to establish home				
3.	. Continued beterosexual relation and marriage broken by permanent separation				
4.	(a)	Continued heterosexual relation and marriage but with low sexual drive			
		(NOTE: If only informant is mother, don't score sexual adjustment. Pro-rate from rest of Premorbid History Section. Look here for evidences of frigidity, distanted avoidance, infrequency. Don't score on matters of technique.)			
	(b)	Continued heterosexual relation with deep emotional meaning but emotionally unable to develop it into marriage			
		(NOTE: This must involve actual physical contact. Petting behavior is acceptable here. <u>Mutuality</u> of feeling is not necessary, but sexual behavior is, i.e., no adoration from afar.)			
5.	(a)	Casual but continued heterosexual relations, i.e., "affairs" but nothing more			
		(NOTE: "Casual" here implies lack of emotional meaning although sexual behavior is consistent and regular.)			
	(b)	Homosexual contacts with lack of or chronic failure in heterosexual experiences			
6.	(a)	Occasional casual heterosexual or homosexual experiences with no deep emotional bond			
		(NOTE: This differs from 5a on the dimension of frequency. Contacts less often here.)			
		homosexual or heterosexual experiences			
7.	No s	sexual interest in either men or women			

В.	Soc	ial Aspects of Sexual Life During Adolescence and Immediately Beyond
	1.	Always showed a healthy interest in the opposite sexwith a "steady" during adolescence
		(NOTE: "Steady implies the exclusiveness of the dating relationship (neither partner dates anyone else) as well as frequency and emotional attachment.)
	2.	Started dating regularly in adolescence
	3.	Always mixed closely with boys and girls
	4•	(NOTE: This involved membership in a "crowd" interest in and attachment to others, but without the initiative factor for males, the selection factor for females.)
		Consistent deep interest in same sex attachments with restricted or no interest in opposite sex
	5.	(a) Casual same sex attachments with inadequate attempts at adjustment to going out with opposite sex
		(NOTE: This differs from 4 on the basis of the consistency and meaningfulness of the same sex attachment.)
c.		(b) Casual contacts with boys and girls 4
		(NOTE: This differs from 3 in that the person was not a regular member of a "crowd" and just associated with others on occasion.)
	6.	(a) Casual contacts with same sex, with lack of interest in opposite sex
		(b) Occasional contacts with opposite sex 5
	7.	No desire to be with boys and girls; never went out with opposite sex
c.	Soc	ial Aspects of Recent Sexual Life, 30 Years of Age and Above
	1.	Married and has children, living as a family unit 0
	2.	Married and has children, but unable to establish or maintain a family home
	3.	Has been married and had children but permanently separated 2
	4.	(a) Married, but considerable marital discord
		(b) Singlehas had engagement or deep heterosexual relation-ship but was emotionally unable to carry it through to marriage

	5.	Single, with short engagements or relationships with the opposite sex which do not appear to have had much emotional depth for both partners, i.e., "affairs"	
	6.	(a) Single, has dated some, but without other indications of a continuous interest in the opposite sex	
		(NOTE: Implication here is that person has dates every once in a while but that this behavior is not habitual-doesn't play an important part of his/her life (take-or-leave attitude.)	
		(b) Single, consistent deep interest in same sex attachments, no interest in opposite sex	5
	7.	(a) Single, occasional same sex contacts, no interest in opposite sex	5
		(b) Single, interested in neither men or women	5
c.	(00	nt'd) Social Aspects of Recent Sexual Life, Below 30 Years of Age	
	1.	Married, living as family unit, with or without children (	)
	2.	(a) Married, with or without children, but unable to establish or maintain a family home	L
		(b) Single, but engaged or in a deep heterosexual relationship (presumably leading toward marriage)	1
	3.	Single, has had engagement or deep heterosexual relationship but has been emotionally unable to carry it through to marriage	2
	4.	Single, consistent deep interest in attachments to persons of either sex	3
		(NOTE: This implies an habitual interest in object relations, a consistent desire forhuman intimacy, but has never settled in a meaningful, continued relationship with one partner in particular.)	
	5.	Single, casual relationships with persons of either sex	4
		(NOTE: Has dated more often than implied by 6 below, less often than implied by 4 above. Differentiate on the basis of frequency, regularity of social-sexual activity.)	
	6.	Single, has dated a few persons casually, but without other indications of a continuous interest in object relationships	5

		(NOTE: Dating here the exception rather than the rule. Person has had occasional social-sexual contact, but doesn't actively seek out other persons. This behavior not consistent, nor an important part of his life. His contacts have been solely casual, i.e., with prostitutes. Satisfy sex drive; no warmth or capacity to establish human relationship.)	
	7.	(a) Single, never interested in or never associated with either men or women; asocial	6
		(b) Anti-social; destructive, belligerant acting out against others	6
D.	Per	sonal Relations: History	
	per	TE: Score here is determined by the time of life at which son withdraws, narrows his range of social contacts. The lier this occurs, the lower the score will be.)	
	1.	Always has been a leader, and has always had many close friends	0
		(NOTE: Score for "closeness" if record states close friends, or describes frequent contact, shared activity.)	
	2.	Always has had a number of close friends but did not habitually play a leading role	1
		(NOTE: From Childhood until breakdown, person had extensive social contacts.)	
	3.	(a) From adolescence on had a few close friends	3
		(NOTE: This may involve a drop in the number of close friends after adolescence, but person has retained relationships involving mutual give-and-take with several people through this period.)	
		(b) From adolescence on had a few casual friends	3
		(NOTE: Person maintains relationships with several persons, even though these relationships may lack real emotional depth. Throughout life he has kept up contact with others.)	
	4.	From adolescence on stopped having friends	4
		(NOTE: Cultivated human relationships during childhood, but has withdrawn since puberty.)	
	5.	(a) No intimate friends after childhood	5
		(NOTE: Withdrawal began earlierbefore puberty.)	

		(b) Casual, but never any deep intimate mutual friendships 5	,
		(NOTE: Implies no close friends, even during childhood, but <u>did</u> maintain contacts on a superficial level, as distinguished from 6 below.)	
	6.	Never worried about boys or girls; no desire to be with boys and girls	
E.	Rec	ent Adjustment in Personal Relations	
	beh	E: Score here the period prior to the noticeable change in vior which preceded symptoms and hospitalization. Any ages noted within 6 months to a year prior to hospitalization constitute a change by this definition. Score before them.)	
	1.	Habitually mixed with others, was usually a leader	
		(NOTE: Again, this involves extensive social contacts.)	
	2.	Habitually mixed with others, but not a leader	
	3.	Mixed only with a close friend or group of friends 3	
		(NOTE: Distinguished from 4 below on the basis of consistency and frequency of contacts.)	
	4.	No close friends or very few friends or had friends but never quite accepted by them	
	5.	Quiet or aloof or seclusive or preferred to be by self 5	
	6.	Anti-social, actively avoided contact, acted out against others 6	
Sig	ns o	the Disorder	
		Score this section on the basis of Mental Status Examination admission.)	
Α.	Aff	ct and Mood	
	abs	E: This subscale runs from erratic mood swings to the total noce of emotional responsiveness. Presence of some affect is idered prognostically favorable, and receives a lower rical score.)	
	1.	Elation, mood swings	
	2.	Depressed moods without shifts to elation and without attacks of excitement	
	3.	Dull, flat, compressed affect; suggestion of underlying tension	
	4.	Apathy; indifference	

II.

# B. Impulsivity

	the nga: This of g	re: This subscale measures the factors of drive and control, prognostic rating based on the observation that turning inst the self rather than withdrawing to the self is favorable. Is acting out against the self is a good sign-apologies, feelings guilt represent the ability to control drive, to show self tical awareness. Score this scale only tentatively. If no evant data is available, score A and C and prorate.)	-
	1.5	Frequent attacks of great excitement; threatening with later apologies	
	2.	(a) Apologetic, blames self; feelings of guilt	2
	3.	(b) Occasional attacks of great excitement	2
	3.	Demanding, complaining; e.g., insistence on medicines, seeing doctor	5
С.	Tho	ught Processes	
	1.	Clouding of consciousness with or without other impairment of thought processes	
		(NOTE: This implies a confusional state. Ratings below this point represent increasing disorganization in settings of clear consciousness.)	
1.	2.	Circumstantial, but no other formal thought disturbances; delusional system without signs of disorganization	1
		(NOTE: "Circumstantial" here refers to that type of thinking in which the person's peripheral associations may carry him from his main stream of thought or conversation, but are expressed as 'asides' and the original theme is returned to.)	
	3.	Inattentive; distractible, flight of ideas	3
		(NOTE: Only one of these need be characteristic.)	
	4.	(a) Disconnected; fragmented; scattered, incoherent	5
	ů.	(b) Trend to naclogisms	5
	5.	Neologisms	6
	3	- A to All As a second of the	

APPENDIX B

#### IN HERE

of the greatest satisfactions in life is:

n for your efforts. g of a job well done. (un of being with friends.

layed football, I would like to be:

coach whose planning pays off in victory.

marterback. ed captain of the team.

est instructors are those who:

you individual help and seem interested in you. a field of study interesting, so you will want to know

the class a friendly group where you feel free to express

mis downgrade instructors who:

sarcastic and seem to take a dislike to certain people.

cereryone compete with each other. ply can't get an idea across and don't seem interested in

my friends to:

ot to help others whenever possible.

ntelligent and interested in a number of things.

est friends:

easy to get along with.

loyal to me.

uld like to be known as:

cessful person. nt person.

person.

ad my choice. I would like to be:

earch scientist.

ood salesman.

youngster I enjoyed:

being with the gang.

feeling of accomplishment I had after I did something

g praised for some achievement.

ols could do a better job if they:

the children to follow through on a job.

ged independence and ability in children.

complexition and more on getting along thers.

trouble with organizations like the Army or

k system is undemocratic.

individual gets lost in the organization.

can never get anything done with all the red tape.

more time, I would like to:

te more friends.

the my hobby or learning something new and interest-

the it easy, without any pressure.

I do my best when:

with a group of people who are congenial.

job that is in my line.

its are rewarded.

n this flap and continue with question 14.

### The

## ORIENTATION INVENTORY

Bernard M. Bass, Ph. D.

## DIRECTIONS

This test consists of 27 statements of opinions and attitudes. For each statement please indicate in the answer blocks which of the three alternatives, A, B, or C, is most true, or most preferred, or most important to you by writing A, B, or C in the MOST column.

Then choose the least true or least preferred of the three alternatives and write its letter in the LEAST column.

For every statement, be sure you mark one alternative in each column. If A is entered under Most, then either B or C should be marked under Least, and so on.

Do not debate too long over any one statement; your first reaction is desired.

TURN THE SHEET OVER AND BEGIN (Do not unfold)



विकास मार्थिक विकास कार्या कार्या विकास वि

Page	Page 2	rage z	
1 007	MOST [	14. I like: A Being appreciated by others.	Name (Please Print):
1		B Being satisfied personally with my performance.	Last
-		G Being with friends with whom I can have a good time.  15. I would like to see a story about myself in the newspaper:  A Describing a project I had completed.	First Initial  Age Circle Sex: M F
		B Citing the value of my actions. C Announcing my election to a fraternal organization.	
10		<ul> <li>16. I learn best when my instructor:</li> <li>A Provides me with individual attention.</li> <li>B Stimulates me into working harder by arousing my curiosity.</li> <li>C Makes it easy to discuss matters with him and with others.</li> </ul>	6 7 8 9 10 11 12 13 14 15 16  Circle Highest School Grade Completed  Current Job:
		17. Nothing is worse than:  A Having your self-esteem damaged.  B Failure on an important task.  C Losing your friends.	(If a student, major field of study)
		18. I like: A Personal praise. B Cooperative effort. C Wisdom.	
		<ul> <li>19. I am considerably disturbed by:</li> <li>A Hostile arguments.</li> <li>B Rigidity and refusal to see the value of new ways.</li> <li>C Persons who degrade themselves.</li> </ul>	
I		20. I would like to:  A Be accepted as a friend by others. B Help others complete a mutual task. C Be admired by others.	
		<ul> <li>21. I like a leader who:</li> <li>A Gets the job done.</li> <li>B Makes himself respected by his followers.</li> <li>C Makes himself easy to talk to.</li> </ul>	
I		<ul> <li>22. I would like to:</li> <li>A Have a committee meeting to decide what the problem is.</li> <li>B Work out by myself the correct solution to the problem.</li> <li>C Be valued by my boss.</li> </ul>	
		<ul> <li>23. Which type of book would you like to read?</li> <li>A A book on getting along with people.</li> <li>B An historical romance.</li> <li>C A how-to-do-it book.</li> </ul>	(DO NOT WRITE BELOW THIS LINE)
F		24. Which would you prefer?  A Teach pupils how to play the violin.  B Play violin solos in concerts.  C Write violin concertos.	M L s + 27 =
b		25. Which leisure time activity is satisfying to you?  A Watching westerns on TV.  B Charting with acquaintances. C Keeping busy with interesting hobbies.	i = + 27 = t = + 27 =
Ь		26. Which would you prefer, assuming the same amount of money was involved? A Plan a successful contest.	Standard Scores or Percentiles: (Circle One)
		B Win a contest. C Advertise the contest and get others to participate.	1
Ь		27. Which is important to you?  A To know what you want to do.  B To know how to do what you want.  C To know how to help others to do what they want.	©Copyright, 1962, by
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