INTER-RATER RELIABILITY: SELECTED PIB (2A) SCALES

by

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A Thesis

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CHAPTER I

Introduction

The number of people over age 65 in this country rose from 20 to 25.5 million between 1970 and 1980. This 27% increase raised the total proportion of people over 65 to 11.3% of the population, a drastic change from 1900, when the three million people in this category constituted only 4.1% of the population (Fairchild & Burton, 1983). With the expected enlargement of the elderly population to approximately 45 million by the year 2020 (U.S. Bureau of the Census, 1981), it follows that there has been a renewed interest in and examination of the services that exist and will be required in the future. Presently such services as health care, adult foster care, residential care and in home assistance are in greater demand.

Concurrent with this growth of the elderly population, phenomena such as the taxpayer revolt and inflation have combined to produce a hesitation on the part of the government to increase expenditures for care of the elderly. Proper allocation of whatever resources are available is considered a critical issue by those policy makers and experts in care of the aged who plan government interventions and support.

Maddox (1981) believes that the key issue in allocation of resources is a broad political vision that can be translated into legislation and plans for financing. He notes that part of the problem is the absence of any concentrated approach on the part of interest groups who are critical of how services are currently operated.

The federal government has acknowledged the need to formulate a coherent public policy regarding the federal role in caring for the frail

elderly. The Federal Council on Aging has stated that there are a number of people being cared for in medical programs whose basic needs are primarily social (Fahey, 1981), which represents an expensive approach to their care. Alternatives to the way care is currently provided could improve the effectiveness, quality and efficiency, as well as lower the costs. A systematic approach to delivery is required.

In 1971 the Administration on Aging in Washington, D.C. asked the Duke University Center for Study of Aging and Human Development to undertake research studies which would explore alternatives to institutional care for impaired older persons (Pfeiffer, 1976). Upon further study, Pfeiffer found that the real questions were: "What are the various alternatives for care for older persons with differing degrees of disability?" and also, "When is institutional care the appropriate alternative in a spectrum of care?" (Pfeiffer, 1976, p. III). Charged with answering these questions, Duke University originated the OARS Project and the OARS Multidimensional Functional Assessment Questionnaire. This questionnaire is one of the many instruments developed in order to first assess an elderly population and, second, to describe any changes in their state of well being from their baseline.

The State of Oregon followed suit with the recognition of the need for an accurate assessment of its elderly population in order to equitably and efficiently meet the needs of those people requesting assistance from the joint federal and state program, Medicaid. A 1975 study resulted in the development and utilization of a check list by pairs of staff nurse evaluators to determine the physical and mental functional level of nursing home patients (Saslow & Huffman, 1975).

In 1979 the Placement Information Base (PIB) was developed in conjunction with the FIG/Waiver project in Southwestern Oregon. The PIB is a functional assessment instrument designed to provide a data base and to help professionals match the needs of clients with available services (see Appendix A). In 1980 the PIB was adopted by the state of Oregon to replace the various functional assessment portions of existing forms and to be used by the Senior Services Division (SSD) as part of its Pre-Admission Screening for Medicaid clients. The PIB has recently been revised and is now being evaluated for its use in a reimbursement formula for community and nursing home care.

Statement of the Problem

Like earlier versions of the PIB, the version (2A), studied here is designed to identify the needs of clients, and is used by SSD in the Pre-Admission Screening process. It has been proposed that, beginning in 1984, scores from selected PIB scales (11 out of 32) be combined to determine level of dependency in the functional area of activities of daily living. The eleven scales that contribute to the determination of how dependent a client is are combined to evaluate dependency in activities of daily living (ADLs) for reimbursement purposes (see Appendix B).

The Senior Services Division of Oregon plans to combine the dependency level in ADLs with an assessment of need for nursing management, nursing/rehabilitation services, stability of health needs, need for a structured environment, and self-management skills in order to determine reimbursement level. Various methods of combining the items are still being evaluated.

Because the PIB is being revised and may be used for a new purpose, it is important that it also be reliable for this purpose. A large number of Medicaid clients may have their reimbursement level for their care based on data from the PIB. In 1980, according to the Oregon Department of Human Resources, 8,000 of the state's 15,000 nursing home beds were occupied by individuals whose care was being paid for by Medicaid (cited in McKenzie, 1983).

The impact on the state's budget is also a compelling reason to insure that the instrument is reliable. With the era of cost containment and scarce resources upon us, every dollar spent must be justified. Clients inaccurately rated high will cost the state unnecessarily.

The proposed change in reimbursement will also affect health care providers, in that they would be paid according to a client's needs and abilities, rather than at a flat rate. Clients inaccurately placed in too low a reimbursement category would be a financial burden to the state.

Review of the Literature

Two areas are addressed in this literature review. First, the development, testing, and revision of the PIB are reviewed. Second, the specifics of instrument reliability and inter-rater reliability are examined.

Placement Information Base

The first version of what is now called the PIB was based on the proposed functional data elements for Greater Oregon PSRO authorization of SNF admissions, stays, and discharges (Oregon Medical Association, 1980). It was determined that more factors needed to be examined than were in the Observational Schedule #1. Observational Schedule #2 was then developed. This second schedule was based on functional data elements

from the Health Care Financing Administration "PACE II" instrument and the National Center for Health Statistics long-term care minimum data set. Because Observational Schedule #2 did not include key criteria deemed necessary by Adult Services workers and long-term care agencies and providers in Southwestern Oregon, Observational Schedule #3 drew scales from the Department of Human Resources guidelines for selection and review of appropriateness of placement (Oregon Medical Association, 1980).

Observational Schedules #1, #2, and #3 were field tested for interrater reliability by the nursing staff at the Benedictine Nursing Center at Mount Angel, Oregon (Oregon Medical Association, 1980). Fifty patients in the Skilled Nursing Unit, two intermediate Care Units, and one Residential Care Unit were rated. The agreement between pairs of observers was tested. The average percent of scales on PIB versions one, two, and three in which pairs of observers agreed totally, by patient, was 83.7, 77.6, and 70.7, respectively. When agreement was considered by pairs of raters agreeing or disagreeing by only one scale level, the percent agreement rose to 96.6 on version two, and 90.6 on version three.

On the basis of the Mount Angel field test results, a fourth version of the instrument was developed and scales were evaluated for their ability to measure a functional continuum (from independent to dependent), and for inter-rater reliability in a variety of settings when used by a variety of raters. Twenty-five of the scales were retained in the fifth version of the instrument. This instrument was named the Placement Information Base, and was used from 1980 until the present.

In 1983 the validity and reliability of the Placement Information Base were further addressed in two separate studies.

Dingman (1983) compared ratings on selected PIB scales for twelve elderly nursing home clients to a clinical assessment of cognitive functioning with individual interviews. Although she found discrepancies between PIB ratings on the five scales measuring cognitive functioning and the interview results, these findings were not further validated. These five scales, however, have been revised in PIB 2A.

McKenzie (1983) evaluated the suitability of this version of the PIB when used as a substitute for the entire Pre-Admission Screening process by the Senior Services Division in nursing home placement decisions in Oregon. She addressed such issues as whether PIB scales are capable of measuring constructs, characteristics, or traits useful in nursing home placement decisions, and how well PIB scales are correlated with nursing home placement as determined by the total Pre-Admission Screening process.

In her study, McKenzie hypothesized that the PIB scales could be grouped into three dimensions reflecting physical, mental and social functioning. Using these combinations, she tested the PIB to determine whether these three important constructs are adequately represented and whether this version of the PIB measures the functional range necessary to assess the population. The physical and mental combinations were evaluated by examining the within-dimension item correlations. The social functioning was evaluated by examining factor loadings, through factor analysis. Using Cronbach's alpha, internal consistency reliability was established for all newly constructed aggregate PIB scales. Internal consistency reliability alpha coefficients ranged from .75 for the overall social scale to .91 for the overall physical scale. The median correlation was .89 (McKenzie, 1983). McKenzie tested the construct validity

of the PIB as a means of establishing the usefulness of the instrument toward standardization, and demonstrated its validity. McKenzie's study confirms that PIB scales are capable of measuring constructs, characteristics, or traits considered useful in nursing home placement decisions.

McKenzie identified specific scales that warranted further inspection due to the fact that scores on these scales were not normally distributed. She questioned whether the skewed distributions were due to the fact that the clients tested were a more functionally impaired segment of the elderly population, or whether the skewed distributions reflected a bias among raters. She questioned whether those scales with bimodal frequency distributions were sensitive to middle ranges of the dimension being measured. She recommended further reliability and validity analysis.

In response to both the above studies, and to suggestions and recommendations from PIB users, the PIB is underoing a substantial revision. Version 2A of the PIB was developed in December 1983 and contains 32 scales. The response range of the scales varies from one to three to one to eleven. The range of each scale is from fully independent to fully dependent. Like the former PIB, each range of the scale is accompnaied by a descriptive statement designed to make the scales "low inference" that require observation, but little interpretation, by the rater.

The constructs addressed in the instrument include activities of daily living, instrumental activities of daily living, self-management skills, cognitive skills, physical functioning and social functioning. Reliability

The ultimate goal of mutiple testing has been to obtain maximum validity and reliability of the instrument. Validity of an instrument

refers to whether or not it measures what it is supposed to. Reliability can be defined as the degree of consistency with which an instrument measures the attribute or attributes it is designed to measure.

Reliability of an instrument is necessary in order for the instrument to be valid. Reliability is essential in order for a test to be interpretable. If the instrument used to measure a variable is unreliable or inconsistent, then the relationship between variables is difficult to support. A highly reliable instrument will have few errors of measurement. Errors of measurement are random and variable errors that are not a result of differences in subjects. Error can be defined as any variable that is irrelevant to the purposes of the testing and results in inconsistencies in measurement (Brown, 1976).

Inter-rater reliability is one type of reliability. The interrater reliability of an instrument is estimated by having two or more trained observers watching some event simultaneously and independently recording the relevant variables (Polit & Hungler, 1978).

Inter-rater reliability can be examined by comparing percent of agreement between the two observers or raters. Agreement over 80% is considered good, over 90% is excellent. Cohen's kappa statistic is a widely used measure of agreement that removes the agreement between raters that was due to chance. A value of kappa greater than .75 is considered excellent agreement. Values below .40 may be taken to represent poor agreement beyond chance. Values between .40 and .75 may be taken to represent fair to good agreement beyond chance (Fleiss, 1981).

When an instrument has been significantly altered, or when it is being used for a new purpose, inter-rater reliability must be re-examined in order to insure that threats to the reliability have not been introduced. Common sources of unreliability include use of an instrument with a sample it was not designed for, examiner variation, instrument administration variation, or an ambiguous, high inference instrument.

Purpose of the Study

This study evaluated the inter-rater reliability of the 11 PIB (2A) scales which are proposed for use in determining levels of dependency in activities of daily living. Data from these scales will be combined with data from other sources in order to determine the client's reimbursement level for Medicaid purposes (see Appendix C).

Rationale for the Study

As previously noted the proposal to utilize PIB scores as a means of determining how dependent a client is for Medicaid reimbursement purposes has resulted in the need for further study. This, along with the fact that the PIB is being altered from the form in which it was previously tested, is a compelling reason to re-examine the PIB for inter-rater reliability.

While most of the items on PIB (2A) are very similar to those of the former PIB, many have been modified in some way. Scale titles remain similar. In the December 1983 version of the PIB (2A), the number of scales is not the same as the April 1982 version tested by McKenzie. Version 2A of the PIB has new scales that address all the content in the former version, with some additions and elaboration. For example, the former version had a scale titled Continence. Version 2A has two scales

that cover this - Bladder Control (Al9) and Bowel Control (A20). Version 2A has more scales that might assess a client living in a home situation rather than an institution. The scales used in formulating the number of dependencies for reimbursement were all present in the formerly tested PIB in some form.

Research Questions

There are two research questions in this study. Question number one: Is there acceptable inter-rater reliability on the PIB (2A) scales which will be used to determine client dependency in activities of daily living? Research question number two: Is the inter-rater reliability high enough on the individual PIB (2A) scales that measure dependence in ADLS that a client is assigned to the same Medicaid reimbursement category when rated by two raters?

Raters could agree enough to have clients placed in the same reimbursement category, yet not agree as often on individual scales. If this were true, the test would be more reliable for the "coarse" distinctions for reimbursement level, but could not be used as precisely for other, more specific purposes. Also, it is reasonable to expect that the current suggested reimbursement matrix may be modified in the future. If this should happen, knowing the reliability of individual scales will be important.

This researcher reports the over-all differences in ratings and examine the reasons for such occurences. Sources of disagreement, if identified, can then be controlled for or removed in future use. Errors could possibly result from client placement setting, rater differences, such as professional background, differences in amount of or quality of

rater training and orientation, ambiguity of scale items, or limited access to required data.

It was anticipated that overall, the reliability of PIB (2A) scales would be high because of the use of descriptor statements for each level on the scales. The PIB is designed to minimize vulnerability to ambiguity by "anchoring" every level, or item, on every scale, by a descriptive, observable, functional, phrase or sentence; it is a so-called "low inference" design, unlike many of the rating scales frequently utilized for assessment. On low inference observation systems pure behavior is recorded as nearly as possible (Kerlinger, 1973). In contrast, high inference observation systems require interpretation of behavior. With high inference systems much training of observers or raters is required. Excessive burdens of judgment are placed on raters that could affect reliability.

In summary, this study will examine the reliability of PIB (2A) scales used to determine dependency in activities of daily living, and attempt to locate sources of error that could lower the PIB (2A) reliability.

CHAPTER II

Method

Design

This study was designed to test the inter-rater reliability of selected scales of items in the Placement Information Base Version (2A) when used as part of the data to determine reimbursement level for care of Medicaid clients in Oregon. Secondary data, collected by Oregon Senior Services Division staff were utilized. Potential risks to subjects are not evident to this researcher, and the anonymity of subjects has been preserved. Subjects in this study gave permission for this type of administrative research when they accepted Medicaid.

A widely accepted method of accurately testing inter-rater reliability was employed in this study. Two raters were instructed to rate each subject independently after a single evaluation. For each subject, both raters involved presumably utilized the same information.

Subjects and Setting

The 193 subjects in this study were clients receiving Medicaid in the state of Oregon. Subjects were either in nursing homes, residential care homes, adult foster care homes, or their own homes with live-in or daily help at the time of the study. Over one-half of the subjects were residing in nursing homes at the time of the rating. The remaining subjects were fairly evenly distributed between settings (see Table 1). Basic demographic data such as age and sex of the subjects were not collected. Although these data might be desirable to have, data utilized were secondary and did not include these correlates.

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Table 1

Number of Clients Rated by Each Team, With Team Composition, Client Placement, and Location

The second secon				
Team Number	Number of Clients Rated	Type of Raters	Placement	Location
	15	Social worker/Case worker	Residential care Foster care	Bend
2	10	Social worker/Case worker	Residential care Foster care In-home,daily	LaGrande
m	6	PAS ^a registered nurse/Case worker	Foster care In-home, live-in In-home, daily	LaGrande
4	15	PAS ^a registered nurse/Case worker	Residential care Foster care In-home, daily	Central Point
വ	15	PAS ^a registered nurse/Case worker	Residential care Foster care In-home, daily	Grants Pass
9	14	PAS ^a registered nurse/Case worker	Residential care In-home, daily	Eugene
7	15	Case worker/Case worker	Foster care In-home, live in In-home, daily	Eugene
∞	20	QA ^C registered nurse/OFMC ^D registered nurse	Nursing home	Portland (Rest Harbor)
6	20	QA ^C registered nurse/OFMC ^b registered nurse	Nursing home	Portland (Park Royal)
			,	

Table 1 (continued)

Location	Portland (Friendship)	Portland (Fairlawn)	Portland (Mt. Tabor)
Placement	Nursing home	Nursing home	Nursing home
Type of Raters	QA ^C registered nurse/OFMC ^b registered nurse	PAS ^a registered nurse/Case worker	PAS ^a registered nurse/Case worker
Number of Clients Rated	20	20	20
Team Number	10	Ξ	12

^aPre-admission Screening ^bOregon Foundation for Medical Care ^CQuality Assurance Each client placement setting is in one of ten geographical locations. All of the client ratings in nursing homes were done in Portland, Oregon, one team in each nursing home. Clients in community settings were chosen from Medicaid clients in Bend, LaGrande, Central Point, Grants Pass, and Eugene, Oregon.

Sample Selection Criteria

The subjects in this investigation were selected by the two member rating teams from the settings to which the teams were assigned. Subjects were to be chosen by the team members in order to represent as wide a range of client functioning as possible. This sample was a convenience sample, not a random sample.

Data

Data used in this study were gathered in December, 1983. Twelve two-member teams consisting of various combinations of registered nurses, social workers, or case workers were formed. The registered nurses were employed directly by the Senior Services Division (SSD) as Pre-Admission Screening (PAS), Nurses or Quality Assurance (QA) Nurses, or indirectly under a SSD contract with the Oregon Foundation for Medical Care (OFMC). The social workers and case workers were employed by SSD.

These raters represent the type of professionals who are likely to and at times do utilize the PIB in the course of their ongoing work. SSD staff utilize the Placement Information Base when they assess clients applying for Medicaid in terms of eligibility for reimbursement and type of placement. Oregon Foundation for Medical Care nurses and Quality Assurance nurses from SSD look at the client and her/his records after placement to assess the continued appropriateness of placement and/or

need for changes of placement or treatment.

Some raters had had prior experience with an earlier version of the PIB. All team members received group oral and written instructions on how to complete the PIB.

Data Collection Instrument

The data were collected using the Placement Information Base (2A) (see Appendix A). PIB ratings were made after the rater evaluated the client by any combination of client interview, audit of medical record or interview of family or staff in the client setting. The PIB is a functional assessment tool that measures an individual's functional status at the time of administration and takes about one hour to administer. Measurement of the Variables

Once the client scores on the PIB were obtained, the eleven PIB scales that were utilized to compute the dependency level of the client in activities of daily living were examined. These PIB scales were collapsed into six ADL categories (see Table 2), according to Saslow's

Correspondence of PIB (2A) Scales to ADL Categories

suggested matrix (see Appendix B).

Table 2

	PIB Scale	ADL	Cate	gory
A5a A6	Nutritional Status Eating		ADL ADL	
A16a	Grooming and Dressing		ADL	2
A17a	Bathing and Personal Hygiene		ADL	3
A3a A 4	Mobility Mobility in Emergency		ADL ADL	
A18a A19a A20a	Using Toilet Bladder Control Bowel Control		ADL ADL ADL	5
A7 B5	Behavioral Demands on Others Response to Changes in Social Relation- ships and Living Arrangements		ADL ADL	

The response range on the 11 PIB (2A) scales relevant to the reimbursement category determination varies. Scales A6, A16a, A17a, A4 and B5 have a one to five response range. A19a, A20a and A7 have a one to six response range. A5a has a one to seven response range. A3a and A18a have a one to eight response range.

Determination of dependency level in any of the six ADL categories was made by examining client ratings on the eleven PIB scales. If a client received a score that fell into the designated dependent area for any PIB scale in the ADL category, the client was considered dependent in that category. For example, a rating of 6 or 7 on PIB scale A5a, or a rating of 4 or 5 on PIB scale A6 would cause the client to be rated dependent on ADL 1 (see Appendix B). Each time a client was rated dependent, this was counted as one dependency in the ADL category.

Although PIB (2A) scale A4 (Mobility in Emergency), is listed as one of the scales utilized in determining number of dependencies in ADLs, in fact, the reimbursement matrix does not consider any rating in scale A4 to be dependent. Therefore, despite the scale's inclusion in the matrix, it is possible to get a rating of dependent in only ten scales.

The number of dependencies in ADL categories are then used as one component of the reimbursement formula. For example, a client having dependencies in four or more ADL categories could have her/his care reimbursed at either Reimbursement Category One or Three, depending on her/his needs for nursing management, direct nursing/rehabilitation services, stability of health needs, need for a structured environment, and self-management skills. The last factor is considered with inhome clients only.

In order to analyze the data, client ratings on the eleven PIB (2A) scales which apply to the reimbursement category were recoded so that they could be converted to another variable labeled either NFDEP or NSDEP; number of ADL dependencies first rater, or number of ADL dependencies second rater. Ratings of each client were labeled either as first or second rating, referring to the rating by rater one or rater two respectively.

Once the NFDEP or NSDEP categories were created, these categories were converted to Functional Categories. Functional Categories provide a general picture of a client's overall ADL functioning. Functional Categories are divided into three levels; level A (dependent to O ADLs), Level B (dependent in 1 to 3 ADLs), and Level C (dependent in 4 or more ADLs). These general Functional Categories represent the categories which SSD is considering using as part of its determination of level of reimbursement to calculate dollar amount of reimbursement to the provider of client care. SSD would combine the number of ADLs the client is dependent in with separate assessments of need for nursing management, direct nursing or rehabilitation services, stability of health needs, need for a structured environment, and self-management skills (See Appendix C).

Although the self-management skills are also determined using PIB scales, their inter-rater reliability was not addressed in this study. These scales are utilized for reimbursement purposes only when assessing clients at home with live-in or daily help. While the sample surveyed in this study includes 26 subjects in the in-home category, decision rules have yet to be established regarding how scores on these scales will be used in the reimbursement scheme.

Methods of Analysis

Ratings by rater one and rater two were crosstabulated for each of the 11 PIB (2A) scales used to form the six ADL categories. Percent of exact agreement was examined, and Cohen's kappa was computed for rater agreement. Agreement within one level and agreement on whether clients were dependent or not was examined by percent agreement. Rater agreement by Functional Category was analyzed overall and by team, utilizing percent agreement and Cohen's kappa in an attempt to identify factors that tend to increase or decrease the rates of agreement.

CHAPTER III

Results and Discussion

Research Question One

Research question one is: Is there acceptable inter-rater reliability on PIB (2A) scales which will be used to determine client dependency in activities of daily living?

Cohen's Kappa

Computation of the Cohen's kappa statistic reveals the proportion of agreement between raters after chance agreement is removed from consideration. A number of researchers have expressed a preference for Cohen's kappa as the method for comparing two ratings. The statistic is lower than percent agreement, because the possibility that the raters will agree by chance is present in the percent agreement.

This statistic has been computed for the 11 PIB (2A) scales evaluated in this study. As can be seen from Table 3, the Cohen's kappa range varies from .29 to .65. The mean kappa is 0.5.

Percent of Exact Agreement

Since percent agreement is frequently reported in the literature, these figures are reported. Percent agreement is higher than Cohen's kappa because it includes agreement between raters that happen by chance. On the cross tabulation of rater one and rater two scores on the scales in question, the range of exact agreement is from 51.8% to 74.8%. The median agreement is 66.1%; the mean is 65.1 (See Table 4).

On scales where agreement is high, this may be due to the fact that these determinations are easier to make than scales with a low rate of

Table 3

Cohen's Kappa Statistic for Agreement on PIB (2A) Scales

	PIB Scale	Cohen's kappa
A5a	Nutritional Status	.29
A6	Eating	.45
A16a	Grooming and Dressing	.65
A17a	Bathing and Personal Hygiene	.59
A3a	Mobility	.40
A4a	Mobility in Emergency	.63
A18a	Using Toilet	.54
A19a	Bladder Control	.56
A20a	Bowel Control	.47
A7	Behavioral Demands on Others	.49
B5	Response to Changes in Social Relationship and Living Arrangements	.43

Table 4

Percent of Exact Agreement Between Rater One and Rater Two On

136^a

111^a

71.2

58.1

PIB (2A) Scales Used to Compute ADL Dependencies Percent Agreement PIB Scale Number 102^C Nutritional Status 52.9 A5a 119^b 62.0 A6 Eating 143^a 74.8 A16a Grooming and Dressing 134^C Bathing and Personal Hygiene 69,5 A17a 100^C 51.8 A3a Mobility 143^C 74.1 A4 Mobility in Emergency 126^a 65.9 Using Toilet A18a 134^b 69.7 Al9a Bladder Control 127^b Bowel Control 66.1 A20a

Arrangements

Behavioral Demands on Others

Response to Changes in Social Relationships and Living

A7

B5

Total clients rated on this scale =

a 191

^b192

^c193

agreement. The scale titled Grooming and Dressing, Al6a (with 74.8% agreement), for instance, may be easier to rate than Nutritional Status, A5a (with 52.9% agreement). The former scale lends itself to a judgment which can be made by the rater in front of the client during the interview, while the latter scale would require some other information, perhaps gleaned from the medical record, or discussion with the care provider. This last process of digging for information requires some expertise and time, which might further explain some of the differences in the agreement between raters.

Scales A5a (Nutritional Status), B5 (Response to Changes in Social Relationships and Living Arrangements), and A3a (Mobility) show the lowest rates of agreement between raters.

These PIB scales which show less agreement are those scales which appear to require more judgment on the part of the rater. These scales were written such that the raters must make some inferences. Further, some of the scales require raters to discount the environment in which the client is placed. For instance, in scale A5a (Nutritional Status), the rater is required to evaluate a circumstance which, in the case of a client in a nursing home, is rigorously observed, while "a diet sufficient to maintain health status" might not be monitored as carefully, nor need to be, in a residential care or foster care home. In the former case, substantial disagreement might take place, documented in the medical record, concerning the ideal body weight of a client, and whether or not the client has maintained that weight. No such discussion would need to be evaluated by a rater of a client in a community setting. Thus, there might be some disparity in the observations made by the raters.

In the case of scales A19a (Bladder Control) and A20a (Bowel Control) the low rater agreement again suggests two possible problems raters might confront, regardless of the instrument in question. First, the information needed may be difficult to obtain. Outside the environment of a nursing home, the issue of continence might not be as carefully monitored; inside, it might not be well documented. Secondly, the issue of incontinence might be of some concern and a source of some embarrassment to the client, a fact which might alter the responses received by the raters, because of client reticence.

Percent Agreement Within One Level

Agreement is fairly high when agreement within one level rather than exact agreement is considered. The range of agreement is 76.2% to 95.9%. The median agreement is 95.9%, the mean is 88.3.

Scale A5a (Nutritional Status) shows 78.8% agreement between raters when a level difference of one is taken into consideration, scale A19a (Bladder Control), 84%, and A3a (Mobility), 85.5% agreement. (See Table 5) As expected, when evaluating the agreement within one level, all rates of agreement improve.

As illustrated in Table 5, on scale Al8a (Using Toilet), the percent agreement rose from 65.9% to 76.2% if calculations are made comparing rater agreement by the difference of only one level. In each of the cases, an increase in agreement is seen, sometimes reaching virtually 96%, as in the cases of scales A6 (Eating), A7 (Behavioral Demand on Others), Al6a (Grooming and Dressing), and Al7a (Bathing and Personal Hygiene).

Considering agreement within one level is important because it is a more realistic expectation than absolute agreement.

Table 5 Percent Agreement Within One Level Between Rater One and Rater Two on PIB (2A) Scales Used to Compute ADL Dependencies

IB Scale		Number	Percent Agreement
A5a	Nutritional Status	152 ^C	78.8
A6	Eating	184 ^b	95.8
A16a	Grooming and Dressing	182 ^a	95.1
A17a	Bathing and Personal Hygiene	184 ^C	95.5
A3a	Mobility	165 ^C	85.5
A4	Mobility in Emergency	176 ^C	91.3
A18a	Using Toilet	146 ^a	76.2
A19a	Bladder Control	b 161	83.6
A20a	Bowel Control	161 ^b	83.7
A7	Behavioral Demands on Others	183 ^a	95.9
B5	Response to Changes in Social Relationships and Living Arrangements	167 ^a	90.4

Total clients rated on this scale = 191

b₁₉₂ c 193

However, disagreement within one level can be critical if the disagreement falls at the "criterion cut" between "dependent" and "independent" on a given scale.

Approximate Percent Agreement on Dependent ADL Ratings

The previous analyses have given agreement on the PIB (2A) scales as a whole. However, for purposes of reimbursement, it is only important whether raters agree that a client is dependent or independent on each of the 10 scales. As previously stated, a client's dependency on each of these scales is combined to determine whether the client is dependent in 0, 1 to 3, or 4 or more ADLs. This information is a factor in the Medicaid reimbursement formula. Therefore, it is important to look at how often rater one and rater two agree that a client is dependent on each of the ten PIB (2A) scales that assess activities of daily living. The percent agreement regarding client dependency was obtained by averaging the total number of clients rated dependent by either rater one or rater two, and dividing this number into the number of clients rated dependent by both raters. As illustrated in Table 5 approximate percent agreement between raters regarding a client's dependency on the PIB (2A) scales measuring ADL functioning varied dramatically. The range of approximate agreement is from 40.0 to 82.61. The median approximate agreement is 68.

It is interesting to note that scales with the lowest agreement as determined by using Cohen's kappa (Table 3) and percent agreement (Table 4) are not the scales that are the lowest when considering percent agreement on dependent ADL ratings (Table 6). A20a (Bowel Control) is lowest (40%) on Table 5; A18a (Using Toilet) is the highest (82.61%). This may indicate that for some scales agreement is easier to make at some levels, ie. the dependent levels than across the entire response range (Tables 3 and 4).

Table 6

Approximate Percent Agreement on Dependent ADL Ratings

PIB Scale		Rated Dependent by Rater 2	endent by Rater 2	Both	Percent Agreement
A5a	Nutritional Status	14	15	8	55.17
A6	Eating	22	27	18	73.47
A16a	Grooming and Dressing	63	62	48	76.80
Al7a	Bathing and Personal Hygiene	89	69	99	81.75
A3a	Mobility	46	47	38	81.72
A4	Mobility in Emergency	В	В	В	ю
A18a	Using Toilet	71	29	27	82.61
A19a	Bladder Control	20	45	34	71.58
A20a	Bowel Control	59	25	Ξ	40
A7	Behavioral Demands on Others	<u>-</u>	0	0	0
B5	Response to Changes in Social Relationships and Living Arrangements	28	17	Ξ	48.8

a No value can be computed because no dependencies are defined for this scale.

Summary Question One

In review, the results of research question one indicate that certain scales have a lower rate of agreement than others. Scales A3a (Mobility), A5a (Nutritional Status), and B5 (Response to Changes in Social Relationships and Living Arrangements), have low agreement rates, as shown by both Cohen's kappa and percent agreement. The amount of judgment required by the raters may be a factor in the varying rates of agreement. Sensitive topics such as bladder and bowel continence might lead some clients to hide problems in these areas. Lack of documentation may contribute to rater disagreement.

Research Question Two

Research question two is: Is the inter-rater reliability high enough on the individual PIB (2A) scales that measure dependence in ADLs that a client is assigned to the same Medicaid reimbursement category when rated by two raters?

Cohen's Kappa

Overall, raters agree with a kappa of .76 on Functional Category assignment. When analyzed by team, the agreement ranges from .31 to 1.0 (see Table 7). Kappa was not computed for team seven because the expected frequency of agreement was low due to many zeros in the cross tabulation.

Percent Agreement

Overall percent agreement between raters regarding assignment of clients to Functional Category A, B, or C is high. Raters agree 79.3% of the time, or on 153 of the 193 clients on Functional Category assignment.

Table 7

Cohen's Kappa Statistics for Functional Category Assignment by Team

Team	Cohen's Kappa
Team 1	.44
Team 2	1.0
Team 3	1.0
Team 4	1.0
Team 5	.64
Team 6	.63
Team 7	-
Team 8	.58
Team 9	.31
Team 10	.70
Team 11	.65
Team 12	. 38

Nearly half of the clients (45.6%) are rated Level A by both raters. Fifteen percent are rated Level B by both raters. Almost 19% are rated Level C by both raters.

Of the 40 disagreements, 23 are between Level A and Level B, 16 are between Level B and Level C, and one is between Level A and Level C.

Table 8 summarizes these results.

Examination of Factors

The next analysis was done to evaluate the extent that client placement and/or type of rater influenced rate of agreement on Functional Category assignment.

Placement

Teams evaluating clients in the community settings tend to agree a higher proportion of the time than teams in nursing home settings (see Table 9). Overall, raters agree on 90.41% of the Functional Category assignments for clients who resided in the community settings, and on only 70% of the Functional Category assignments in the nursing home settings.

The lower rate of agreement in nursing home settings might be surprising at first, considering the fact that there is presumably a greater amount of written documentation on client performance, and that documentation is often done by, or under the supervision of, professional health care providers. However, upon further reflection, the documentation may not address relevant matters. Clients in nursing homes may be seen by an observer as more dependent than they really are. For example, a client might use a wheel chair in a nursing home because it is there, or because the staff feels more comfortable with the client in the chair

Table 8

Percent Agreement on Functional Category Placement
By Rater One and Rater Two

		Rater Two	
Rater One	Level A	Level B	Level C
Level A (O Dependencies in ADLs)	88 (45.6%)	10 (5.2%)	1 (0.5%)
Level B (1-3 Dependencies in ADLs)	13 (6.7%)	29 (15.0%)	8 (4.1%)
Level C (4 or more Dependencies in ADLs)	(0%)	8 (4.1%)	36 (18.7%)

Table 9

Client Placement, Type of Rater, and Percent Agreement on Functional Category Assignment by Team

t on Category Percent	87	100	100	100	93	93	09	75	
Agreement on Functional Category Number	13	10	6	15	14	13	6	15	(continued)
Number	15	10	6	15	15	14	15	20	٥
Type of Raters	Social worker/Case worker	Social worker/Case worker	PAS ^a registered nurse/Case worker	PAS ^a registered nurse/Case worker	PAS ^a registered nurse/Case	PAS registered nurse/Case	Case worker/Case worker	QA ^b Registered nurse/OFMC ^C registered nurse	
Client Placement	Residential care Foster care	Residential care Foster In-home, daily	Foster care Live-in and daily	Residential care Foster care In-home, daily	Residential care Foster care In-home, daily	Residential care	Foster care In-home, live-in & daily	Nursing home	
Team	_	2	က	4	വ	9	7	∞	

Table 9 (continued)

Agreement on Functional Category	Percent	55	80	80	09
Agree Function	Number	וו	91	16	12
	Number	20	20	20	20
	Type of Raters	QA ^b registered nurse/OFMC ^C registered nurse	QA ^b registered nurse/OFMC ^C registered nurse	PAS ^a registered nurse/Case worker	PAS ^a registered nurse/Case worker
	Client Placement	Nursing home	Nursing home	Nursing home	Nursing home
	Team	6	10	Ξ	12

^aPre-Admission Screening ^bQuality Assurance

^UQuality Assurance ^COregon Foundation for Medical Care if she/he is a bit unsteady ambulating. This might lead to a discrepancy in perceived dependence on the part of the raters. Some raters might automatically rate a client dependent without pursuing exactly what the client's abilities are. This could be a factor in the lack of rater agreement. The environment itself could be interfering with an accurate determination of how dependent a client is. The fact that the client is in an institution may make her/him more likely to act and to be judged dependent. The institutional setting might confound a rater and contribute to the lack of agreement found in the nursing home setting.

An analysis was also done on reliability by type of rater. Raters in the residential care, foster care, and client's own homes are social workers, case workers, and pre-admission screening registered nurses. Raters in the nursing home settings are quality assurance registered nurses, Oregon Foundation for Medical Care registered nurses, pre-admission screening registered nurses, and case workers.

Due to the design of the study it was difficult to compare teams of raters in the two different settings, community and nursing home. Only the PAS registered nurse/caseworker combination was present in both settings. The lowest rate of agreement was between QA registered nurses and OFMC registered nurses rating nursing home clinets. The next lowest was the case worker/case worker team in the community and the PAS registered nurse/case worker in the nursing home. The PAS registered nurse/case worker combinations in the community achieved the highest rates of percent agreement.

It is difficult to draw conclusions on how the type of rater affects the rate of agreement due to the variation in rates of agreement across placement settings.

Identical training on how to use the PIB (2A) for this study was presumably received by each rater. However, these raters have varying amounts of experience using the PIB. Comfort with, and understanding of the instrument most likely varied. The requirement to rate the client's capacity, rather than to describe what the facility lets or invites them to do, may not be well understood or feasible to ascertain under pressure, without practice. In the course of their daily work, PAS registered nurses use the PIB regularly; QA registered nurses do not. Experience using a functional assessment tool could cause a rater to rate clients differently than raters who are using the instrument for the first time. Although the PIB is designed to be a low-inference instrument, familiarity with it, or lack of it, could affect client ratings in this study. In actual use, these differences might not persist because raters would quickly gain experience using the PIB and differences might be reduced in this way.

Summary Question Two

In summary, rater agreement on client Functional Category assignment is .76 when using Cohen's kappa. Percent agreement is 79.3%. Agreement varies depending on client placement. The nursing home setting may confuse raters because some clients may act as if they were dependent when they possibly are not. Type of rater may also be a factor in rate of agreement between raters, but the design of this study does not allow examination of that hypothesis.

CHAPTER IV

Summary, Limitations, Recommendations and Conclusions

Summary

This study examined the inter-rater reliability of the Placement Information Base (2A) when used as an assessment instrument to determine dependency in activities of daily living (ADLs) for Medicaid clients in Oregon. Specifically, the purpose was to evaluate the reliability of the 11 PIB (2A) scales used to determine dependency in ADLs. Whether clients were assigned to the same Functional Category (a breakdown of ADL dependencies to 0, 1 to 3, or 4 or more dependencies) was also evaluated. Because it has been proposed to utilize the PIB as part of a formula to reimburse care providers according to the needs of Medicaid clients and because the PIB has been revised, it was felt that the PIB needed to be examined for its reliability. Review of the literature surveyed the development of the PIB and noted past studies on reliability.

The sample population studied consisted of 193 clients whose care was reimbursed by Medicaid in December, 1983. Clients were independently rated by two raters using the PIB (2A). Rating teams were various combinations of case workers, social workers, or registered nurses. Ratings were cross tabulated: rater one by rater two; by PIB scale and by Functional Category.

Certain PIB scales A4 (Mobility in Emergency), and A16a (Grooming and Dressing), and A17a (Bathing and Personal Hygiene) show a higher rate of agreement than others. Scales A3a (Mobility), A5a (Nutritional Status), and B5 (Response to Changes in Social Relationships and Living Arrangments) are identified as having low rates of agreement. The Cohen's kappa on PIB (2A) scales ranges from .29 to .65. The mean kappa is .50.

The percent of exact agreement between two raters on the PIB (2A) scales examined ranges from 51.8% to 74.8%. The median agreement is 66.1%.

Percent agreement within one level ranges from 76.2% to 95.9%. The median agreement is 95.9%.

The approximate percent agreement on dependent ADL ratings ranges from 40.0% to 82.61%. The median agreement is 68%. The scales that show low rates of agreement on dependent ratings are not the same scales that are low in rate of overall agreement. A20a (Bowel Control) had only 40% agreement.

Possible reasons for these rates of agreement were explored. Factors identified as possibly leading to low rates of agreement on PIB (2A) scales were: a requirement that the rater make judgments about the clients; the influence of the environment on how dependent a client appears; difficulty obtaining information from the client due to client reticence; and poorly documented behaviors in the medical record.

These same factors presumably influenced agreement on whether clients were assigned to the same Functional Categories. The environment appeared to influence the raters' ability to agree on client ratings, as is seen in the lack of rater agreement in nursing homes (70%) and the high agreement (90%) in the community settings. However, differences of types of raters and amounts of experience could also explain these results.

The Cohen's kappa statistic for overall agreement between raters by team on assignment to Functional Categories is .76. The range is from .31 to 1.00. The percent agreement between raters regarding assignment of clients to Functional Categories is 79.3%.

Limitations

Data utilized in this study were secondary. The Senior Services

Division of Oregon gathered the data. In future studies, data on the

age and sex of the subjects might be useful in drawing conclusions about

difficulties in rating certain types of subjects. How long the client

had been in a placement setting was not determined.

The training of the raters was done throughout the state. Some raters received one training session, and others had had prior experience with other versions of the PIB. This prior experience variable was not controlled for in this study.

Future studies would glean more data by insuring that comparable teams be utilized in both community and nursing home placement settings. This would enable the researcher to compare the agreement rates by type of rater without considering placement as a variable.

Recommendations

This researcher recommends that PIB scales with low agreement be revised and retested in pilot studies.

The source of low agreement in the nursing home setting needs to be located, perhaps by questioning those professionals who were raters in this setting in order to identify problems they might have had.

Standardized assessments and documentation in the medical record of clients in nursing homes would be helpful in determining client needs, dependencies, or strengths.

Conclusions

Whether the reliability of the PIB (2A) scales is sufficiently high for its intended uses will have to be determined by the Senior Services Division. The overall rate of agreement on assignment of clients to Functional Categories was 79 percent. This rate might be increased by refinement of PIB (2A) scales with low inter-rater reliability. The rate of 79 percent means that statistically, an average of 21 out of every 100 Medicaid clients could be placed in an incorrect reimbursement category. Individual clients, providers, and the Medicaid budget are all likely to experience impact in the event of incorrect placement. On the other hand, the cost of achieving absolute precision may be very high.

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APPENDIX A

Oregon SSD PIB II Reliability

Test Form

STATE OF CHELCH A ARTHUR DE MUNICE RESOURCES ENTITE FERSICES DESIGNATION

QA.

	Client 1.0, No.:	R8127 1.3, 40.1
	As of Date	Completed on Date
	Rate the client according to how they usually function	n.
	about as well; or, because the person's capabilities	more levels to choose, because the wording seems to fit, or not fit, seem to vary; select and circle the level with the lowest numer, the member that, for the typical five alternative scale, the basic meaning
	1. No Problems: Functions about average, or better;	managing independently.
	2. Mild Problems: Beginning to have some problems w	ith function; may need occasional help.
	4. Marked Need: Problems with the function; needs for	; needs limited regular assistance in order to carry on.
	5. Servere Keed: Problems with the function; needs	
	CLUSTER A-1: VISION, with glasses, if	used - if the person is confused, make the best estimate you can.
	1. Full, normal vision.	
	Minimal loss. Sees adequately in m hoderate loss, can read large printingers at arm's length.	ost situations; can see newsprint, public notices, television, medication labels. nt, see simple pictures, end see obstacles, but not detais, usually can count
	4. Severe loss, cannot find way around them; can tell light from dark.	i without feeling or using came, cannot locate objects without hearing or touching
	5. Total blindness. Cannot tell light	from dark.
1.1	she refuses to use hearing aid, rate he	i, if used — if the person is confused, make the best estimate you can. If he or aring without the mid. [
	appropriately to being addressed wi	most situations. Can carry on an unrestricted conversation or otherwise responds thout speaker raising voice or altering normal pace and style of diction in groups TV or radio; when addressed from behind; etc.
	3. Hoderate loss, hears adequately onl of radio, etc.	y in special situations, i.e., one-to-one, with firm clear diction, raised volume
	4. Severe loss, hears with difficulty or frequently fails to respond, etc.	even in special situations, i.e., conversation restricted, many misunderstandings,
	5. Total deafness. Hearing not useful	for communication.
	which the individual is physically abl	ORMANCE: Report what he or she is doing at this time. Describe the extent to e to get around alone, using whatever mechanical aids (walker, came, whitelenair)
		t the person is capable of doing in a "best" situation, taking regular outside walks for exercise.
		culty both inside and outside, but is not capable of taking regular outside walk:
	 Walks or gets around easily inside, 	can get to various rooms alone, but needs some help from another person outside. with mechanical aids, needs assistance from another person beyond that.
	meed assistance to go further.	it mechanical aids, but needs help from another person to transfer; may or may not
	7. Does not get around, even in room,	without continuous assistance by another person. without continuous assistance, and needs total lift to transfer.
		the time in bed. <u>#ITHOUT MECHANICAL AIDS</u> . Take into account both the person's physical and mental
		uilding, even if stairs are involved, without assistance from one or more other
	persons. 2. Can, and will, get outside of a but	lding, if stairs are not involved, without assistance of one or more other persons.
	4. Can, and will, get out of bed witho	ithout assistance of one or more other persons, but can not get out of building ut assistance of one or more other persons, but can not get out of building.
	5. Can not or will not get out of Ded	without assistance of one or more other persons. 5 (Weight, Hydration, etc.); (a) IF SUPERVISED, is the person's food and flufe
	intake sufficient to maintain nutrition	nal status; (b) ON MIS/HER own, is his or her food and fluid intake sufficient to refers to fluid balance sufficient to maintain bodily functions, as indicated by
	the condition of the tongue and skin.) if on own chooses, a diet sufficient to maintain health status, fluid intake
	adequate for hydration, weight usua 2. With minimal direction: (a) if sup-	lly stable. ervised follows; or (b) if on own chooses, a diet which is sufficient to maintain
	health status, may need reminders t	o maintain fluid intake adequate for hydration, weight usually stable.
	own, inconsistently chooses a die	even with minimal direction, (a) inaccurately follows, if supervised; or (b) if or t which would be sufficient to maintain health status. However, does not yet orating nutritional status; may or may not have acequate hydration; weight may or
	may not be stable,	
	inconsistently chooses a diet whi	nimal direction, (a) inaccurately follows, if supervised; or (b) if on own, ch would be sufficient to maintain health status. Exhibits beginning medical mal status; may have slow, steady increase or decrease in weight over past few
	months; may show observable signs o	f inadequate hydration.
	5. Eats irregularly, and, even with	minimal direction, (a) inaccurately follows if supervised; or (b) if on own,

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22 2	symptoms of deteriorating nutritional status; may have slow, steady increase or decrease in weight over past (months; may show observable signs of inadequate hydration. 6. Has marked food and/or fluid intake disorder. May show consistent over-eating; severe weight gain or loss; excessive weight; may forget to eat; may refuse to eat. May show signs of low fluid intake such as poor skin elasticity,
	flushed, dry skin, coated tongue. 7. Exhibits medical symptoms attributable to seriously deteriorated nutritional status; extreme dizziness; loss of consciousness; swelling of arms or legs; absence of urination; irritability; confusion.
	CLUSTER A-6: EATING, with special equipment if regularly used.
	1. Feeds self, chews and swallows solid foods without difficulty; or can feed self by stomach tube.
	2. Feeds self, chews and swallows solid foods which have been cut or pureed. May need reminding or encouragement to
	maintain adequate intake. 3. Needs assistance and/or encouragement with feeding, but thews and swallows solid foods (which may have to be cut or
	pureed). May have difficulty swallowing; or must be fed by another, by stomach tube.
	4. Needs total assistance and/or encouragement with feeding; has difficulty with cheving or swallowing, even with food
	cut or pureed.
	5. Hust be fed intravenously.
	1. Personal problems, disturbances, emotional states do not particularly
	restrict the individual's type of living arrangement and companions.
	2. Personal problems, habits, disturbances, emotional states other than abusiveness, hostility, or violence, restrict
	individual's type of living arrangement and companions.
	3. Person is sometimes or frequently abusive, either physically or verbally, towards others, requiring special tolerance
	or management. 4. Person is occasionally hostile or combative.
	E. Person is regularly hostile or combative and professional judgment is required to determine when to administer
	medications.
	 Person is dangerous or violently abusive to self or others, may not be controllable with medications, may require physical restraints.
	CLUSTER A-B: AMARENESS OF DAN CARE NEEDS FOR ACTIVITIES OF DAILY LIVING AND SELF- MANAGEMENT
	 Fully aware of care needs and responsible for care of self. Fully aware of care needs, but needs to be checked up on once or twice a day.
	3. Fully aware of care needs, but needs help with activities of daily living and/or self-management skills.
	4. Is not fully aware of own care needs; needs some supervision and/or assistance with activities of daily living and/or
	self-management skills. Does not wander off physically-
	Is not aware of own care needs; needs much supervision and/or assistance with activities, of daily living and/or
	self-management skills. May regularly wander off physically. CLUSTER A-9: MANAGEMENT OF MEALTH COMDITION. Describe the person's capability of managing his/her physical and mental
	health needs, beyond personal care needs. Note: A terminally ill person who is bedfast, but managing his/her own care,
	is rated accordingly, not automatically rated "10" or "11". Rate the person's basic, continuing health condition - not
	temporary acute situations.
	 No significant illnesses or disabilities; needs only routine health care such as annual chectups. Has one or more (moderate) medical problems or disabilities but manages own medical needs between physician visits.
	2. Has one or more incurrance, mention proteins or absorber or mention of commences were necessarily mention and arrived as medical problem which requires short-term attention or corrective measures but is expected to be able to resume
	self management when the short-term medical problem is resolved.
	4. Has at least one moderate medical problem which requires periodic medical attention or intervention once a month or
	less.
	 Has a medical problem which occurs rarely but when present requires intense medical attention. Has at least one moderate medical problem which requires attention or intervention beyond the personal care level
	pure than once a month but less than daily.
	7. Has at least one moderate medical problem beyond the personal care level which requires attention or intervention at
	least once a day-
	8. Moderately impaired; requires substantial medical/nursing care or other interventions on a loss than dafly basis to maintain vital bodily functions and to prevent worsening of general condition.
	9. Moderately impaired; requires substantial medical/nursing care intervention on at least a daily basis to maintain
	bodily functions and to prevent worsening of general condition.
	10. Highly impaired, frequently confined to bed or wheelchair; requires medical/nursing care interventions on at least a
	daily basis to maintain vital bodily functions and to prevent worsening of general condition.
	11. Highly impaired; needs medical/nursing care interventions on a more than one shift basis to maintain all bodily
	functions and to prevent worsening or to ensure maximum comfort achievable. CLUSTER A-10: MANAGING NEDICATIONS. Consider the person's currently prescribed oral, surface, and injectable
-;	wedications. Select the one category which fits the individual's capabilities best. Rate what the individual is capable
	of doing on his/her own; do not assign the rating to match the policy or practice of a provider.
	1. Needs no medications; or if needs them, can manage medications alone. Knows what to take, can take medications at
	correct times, can store medications properly. 2. Knows own medication program and is capable of self-administering medications, but policies of, or practices in, the
	current living situation prohibit self-medication.
	 Medications must be laid out each week, but person has no problems taking correct ones at correct times.
	 Able to self-administer medications but needs blood drawn for lab, or needs studies or monitoring by a health professional for the regulation of medication.
	5. Must be given direct daily reminders regarding medications, but can follow them.
	6. Needs daily assistance with self-administered medications.
	7. Can manage some but not all of own medications, needs to have some medication administered by someone else regularly
	but less than daily. B. Cannot manage own pedications, needs to have all medications administered by someone else on a regular but less than
	daily basis.
	9. Can manage some but not all of own medications, needs to have some medication administered by someone else daily or
	more frequently.
	10. Cannot manage own medications, need to have all medications administered by someone else daily or more frequently.

CLUSTER A-11: SKIN CONDITION. Describe current condition of skin.
 No significant skin problems. Skin dry; scaly; requires lotions, or other skin softeners, applied by self or others.
Sain breakdown, rashes occur occasionally; skin tears or bruites pastive acastes of the
4. Skin is hitstered prelim cracked account as house
at Accept of skill broken with the top layer of skill not present, and underlying edenie
present; or open, healing surgical wound. 6. Area(s) of skin and underlying tissue destroyed with formation of deep, crater-like ulcer; or open surgical youn requiring complex treatment.
requiring complex treatment.
CLUSTER A-12: POSITIONING AND WEIGHT SHIFFING, the individual's ability to move his or her own body weight when in be
1. The person can shift his/her man hade weight for nextal-
a. The person can sairt his/her own body weight for position changes most of the time, but meeds the help of anothe individual on pecasion.
 The person can assist with shifting his/her own body weight for position changes, but requires the help of anothe individual.
1 Individual. 4. The person is not able to shift own body weight, and position changes must be redone by another person.
CLUSTER A-13: RANGE OF HOTION ACTIVITY, the person's ability to exercise the joints of his or her arms and legs in order to prevent contracture (frozen muscle joint).
The person is able to perform full range of motion independently (active) through normal exercise or activities. The person is able to perform full range of motion most days but active through normal exercise or activities.
person (activa).
3. The person is able to perform full range of motion, but only with the help of another person all of the time (active). 4. The person is not able to perform range of motion and the activity must be described.
4. The person is not able to perform range of motion and the activity must be done totally by another person (passive). 5. The person has at least one contracture and the range of motion activity must be done or supervised by a licenser professional (passive).
professional (passive). **CLUSTER A-13: HISCLE AND JOINTS NOTION
CLUSTER A-14: PREPARATION FOR SLEEP
 Can totally prepare for bed without assistance. Can usually prepare for bed without assistance.
 Requires daily assistance to prepare for bed.
4. Requires daily total help to prepare for hed
CLUSTER A-15: NIGHT-TIME WEEDS FOR ASSISTANCE 1. Requires no care during at least five uninterrupted hours of sleep.
as Requires no care during at least five hours a night even though at
 CLUSTER A-16 (a/b): GROWING AND DRESSING: (a) PERFENDANCE
CAPABILITY: report what the person is capable of doing in a "best" situation.
2. Grooms and dresses seri without any help. Combs hair, manages buttons, ties shoes, etc.
3. Grooms and dresses self without any help, but must always be reminded to do so on some days.
tying shoes; may or may not need resigning. Or some parts of grooming, or some parts of dressing, such as managing buttons or
3. Weeds help from another marros he do att
10) CAPABILITY: report what the person is canable of date to me.
 2. Bathes and manages personal hygiene regularly, without reminders and without any help.
2. Bathes and manages personal hygiene without any help, but must be realised at least some of the time. 3. Bathes and manages personal hygiene but requires minimal help with some parts of the activities. 4. Bathes and manages personal hygiene but requires minimal help with some parts of the activities.
5. Boes not do any part of bathing on other parts of the activities
CLUSTER A-18 (a/b): USING TRILET, (a) BY THIS TIME.
BEST SITUATION: report what the person can do under the best circumstances. 1. Can get to and from toilet, adjust clothes, clean self, etc., witnout help.
 as weeks hery getting to toliet. But heeds no other hale
3. Can get to toilet, but needs some help once there. 4. Needs help getting to tollet, and needs help once there.
o, tan get to tollet, but meeds total helm
 Needs help getting to tollet, and needs total help once there. Can not use tollet, but is aware of need.
O. Can not use tollat and de not success of a
whether naturally or with control of the individual's bladder under his/her control day and date
IML: FEDOR'S what level of bala to annual to
under the best circumstances if assistance were available when the individual needs it, rather than on an arbitrary
1. NO incontinence; needs po assistance: sale care
no need for care of catheter or other appliance by another person.
3. Incontinent several tipes a week, but able to manage own clean-up without the assistance of another person
occasional care of another and another another and another and another and another another and another another another and another another and another ano
annilance care by seek; needs assistance of another person for clean-up; ne needs
s. Inconcinent at least one during the days goods and a
 as incontinent during the dry and nights mant said.
 Incontinent during the dy and night; needs assistance of another person for clean-up during the day and night; needs assistance of another person for clean-up during the day and night; or needs catheter or appliance care during both day and night;

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	CLUSTER A-20 (a/b): BOXEL CONTROL; to what extent is the individual's bowel under his/her control, day and night
	whether naturally or with ostomy, etc. Cleaning of ostomy or other appliances is included in general "clean"
	THIS TIME: report level of help that is needed under the present arrangement; (b) BEST SITUATION.
	person can do under the best circumstances if assistance were available when the individual needs it, rather than on a
	arbitrary schedule.
	 No incontinence; needs no assistance; self care.
	No need for care of appliance by another person, and no need for enemas.
	Incontinent once or twice a week, but able to manage own clean-up without the assistance of another person.
	3. Incontinent several times a week but able to manage own clean-up without the assistance of another mercan or need
	occasional care of catheter or other appliance by another person; or occasional provision of or assistance will
	enemas.
	4. Incontinent several times a week; needs assistance of another person for clean-up; or needs appliance care of
	provision of or assistance with enema by another person more than once a wash but not daily
	5. Incontinent at least once during the day; needs assistance of another person for clean-up at least once during th
	day; or needs appliance care at least once during the day by another person; or provision of or assistance wit
	enemas dally.
	6. Incontinent during the day and night; needs assistance of another person for clean-up during the day and night; o
	needs appliance care during both day and night; may need provision of or assistance with enemas day or night.
	CLUSIER B-1: TANEL, assuming that the transportation is available and accessible.
	1. Is capable of using private and public transportation properly and appropriately, on own. Can drive safely.
1 1 1 1	2. Is capable of using public cransportation properly and appropriately, with reminders or encouragement fancet of
	3. Is capable of using public transportation for both short and long trips with specific instructions.
	4. Is capable of managing routine trips with specific instructions, but is totally dependent on action
	3. Is the carry dependent on being accompanies or nespec by others when any travel is necessary.
	CLUSTER B-Z: PERSONAL AND FOOD SHOPPING
	1. Is capable of shopping regularly without help. Needs to assistance with choice of items.
	2. Is capable of shooping without help, but must be assisted from time to time with assistance
	J. 15 Cabadie of Going Some Shooping, but often needs help with rhysical process of manage as
	4. Is capable of doing some shopping, but always needs help with physical process of getting items or selection of items.
	CLUSTER B-3: HOUSECLEANING, adequacy with respect to endangering the individual's help, safety, and well-being.
	i, is capable of taking adequate care of the fiving space for which he/she is responsible, both links and harmonich
1 1 1 1	c. 13 tapaste of using his/ner fight houseteeping, but needs assistance with heavy wark
	3. Is capable of doing his/her light housekeeping, with minimal essistance, but needs to have the
	4. Must have regular assistance with light housekeeping, and needs to have the heavy work done.
	5. Totally dependent on others for both light and heavy housework.
	CLUSTER B-4: PREPARING FOOD
	CLUSTER B-4: PREPARING FOOD 1. Is capable of preparing own meals.
	Is capable of preparing own meals. Is usually capable of preparing own meals.
	 Is capable of preparing own meals. Is usually capable of preparing own meals. Is usually capable of preparing light meals, but needs help with main meals.
	 Is capable of preparing own meals. Is usually capable of preparing own meals. Is usually capable of preparing light meals, but needs help with main meals. Can occasionally prepare light meals, but needs help.
	 Is capable of preparing own meals. Is usually capable of preparing own meals. Is usually capable of preparing light meals, but needs help with main meals. Can occasionally prepare light meals, but needs help. Can not prepare meals.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals, CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals, CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 1. Accepts change: actively adapts, makes plans, handles crises well, is confident.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing own meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 1. Accepts change: actively adapts, makes plans, handles crises well, is confident. 2. Accepting of changes, but needs some help in adapting and making plans and decisions.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 1. Accepts change: actively adapts, makes plans, handles crises well, is confident. 2. Accepting of changes, but needs some help in adapting and making plans and decisions. 3. Actively resistant to change; refuses to make decisions; consistently negative or hostile.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. CLUSTER B-5: RESPONSE TO CHAMES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 1. Accepts change: actively adapts, makes plans, handles crises well, is confident. 2. Accepting of changes, but needs some help in adapting and making plans and decisions. 3. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 4. Neutral or passive. Requires regular assurance and/or guidance.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing own meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. 6. CALLIER BS-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 6. Accepts change: actively adapts, makes plans, handles crises well, is confident. 6. Accepting of changes, but needs some help in adapting and making plans and decisions. 7. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 8. Withdrawn, afraid, or insecure; consistently needs support.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing gone meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. 6. Cutyster B5: RESPONSE TO CHAMES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 7. Accepts change: actively adapts, makes plans, handles crises well, is confident. 7. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 9. CUUSTER B6: PARTICIPATION IN SOCIAL ACTIVITIES. assuming that these are or could be made unablant.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing grown meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals, CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 1. Accepts change: actively adapts, makes plans, handles crises well, is confident. 2. Accepting of changes, but needs some help in adapting and making plans and decisions. 3. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 4. Neutral or passive. Requires regular assurance and/or guidance. 5. Withdrawn, afraid, or inserure; consistently needs support. CLUSTER 8-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 1. Able to decide independently the kinds and extent of social activities in which to available.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing goun meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals, 6. Can not prepare meals, 6. CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 7. Accepts change: actively adapts, makes plans, handles crises well, is confident. 8. Accepting of changes, but needs some help in adapting and making plans and decisions. 9. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 9. Neutral or passive. Requires regular assurance and/or guidance. 9. Withdrawn, afraid, or inserure; consistently needs support. 6. CLUSTER 8-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 1. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization(s).
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. 6. Can not prepare meals. 6. Can not prepare meals. 7. CLUSTER 8-5: RESPONSE TO CHAMEES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 7. Accepts change: actively adapts, makes plans, handles crises well, is confident. 7. Accepting of changes, but needs some help in adapting and making plans and decisions. 7. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 7. Neutral or passive. Requires regular assurance and/or guidance. 7. Withdrawn, afraid, or insecure; consistently needs support. 7. CLUSTER 8-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 7. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]:
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing own meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. 6. Can not prepare meals. 6. Cutster 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 7. Accepts change: actively adapts, makes plans, handles crises well, is confident. 8. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 6. Withdrawn, afraid, or insecure; consistently needs support. 6. LUSTER 8-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 1. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: 1 1 Is a passive. 8. Alle and will ling to be involved regularly in social activities with at least one Medical and social political organization[s]:
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing gown meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals, CLUSTER 8-5: RESPONSE TO CHANGES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 1. Accepting of changes: actively adapts, makes plans, handles crises well, is confident. 2. Accepting of changes, but needs some help in adapting and making plans and decisions. 3. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 4. Neutral or passive. Requires regular assurance and/or guidance. 5. Withdrawn, afraid, or inserure; consistently needs support. CLUSTER 8-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 1. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: living facility; etc. 2. Able and willing to be involved regularly in social activities with at least one kind of group. 3. Able and willing to participate in activities with at least one of these kinds of groups if reginded and/or available.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. 6. Can not prepare meals. 6. Can not prepare meals. 7. Cupster Bass. 8. RESPONSE TO CHAMES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 8. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 6. CLUSTER Bass. PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 9. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: 11. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one fitness kinds of groups if reminded and/or assisted to do so.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing own meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. 6. Can not prepare meals. 6. Cutter a catively adapts, makes plans, handles crises well, is confident. 7. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 6. CLUSTER 8-6: PARICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 9. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: living facility; etc. 9. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one fines kinds of groups if reminded and/or assisted to do so. 4. Able and willing to go to or be present at activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for a second activities of at least one of these kinds of groups for
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	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing own meals. 4. Can occasionally prepare light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. 6. Can not prepare meals. 7. Custer a sectively adapts, makes plans, handles crises well, is confident. 8. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 8. Cluster Be-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 9. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: living facility; etc. 9. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one of these kinds of groups if reminded and/or assisted to, but needs prompting and encouragement to participate; or is only responsive when visited by a particular person or a limited number of people.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. 6. Can not prepare meals. 7. Can not prepare meals. 8. Accepts promote the control of the
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing own meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. 6. Can not prepare meals. 6. Can not prepare meals. 7. CLUSTER 8-5: RESPONSE TO CHAMEES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 7. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or insecure; consistently needs support. 6. CLUSTER 8-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 9. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: 9. Inling facility; etc. 9. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one of these kinds of groups if reminded and/or assisted to do so. 9. Able and willing to go to or be present at activities of at least one of these kinds of groups if reminded and/or assisted to, but needs prompting and encouragement to participate; or is only responsive when visited by a particular person or a limited number of people. 9. Not able or willing to go to activities of any of these kinds of groups, nor to be involved if present at them. May not be responsive to visitors, may have no social relationships.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. 6. Can not prepare meals. 7. Can not prepare meals. 8. Accepts change: actively adapts, makes plans, handles crises well, is confident. 9. Accepting of changes, but needs some help in adapting and making plans and decisions. 9. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 9. Neutral or passive. Requires regular assurance and/or guidance. 9. Withdrawn, afraid, or insecure; consistently needs support. 8. CLUSIER B-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 9. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: 9. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one of these kinds of groups if reminded and/or assisted to, but needs prompting and encouragement to participate; or is only responsive when visited by a particular person or a limited number of people. 5. Not able or willing to go to activities of any of these kinds of groups, nor to be involved if present at them. May not be responsive to visitors, may have no social relationships.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing light meals, but needs help with main meals. 4. Can occasionally prepare light meals, but needs help. 5. Can not prepare meals. 6. Can not prepare meals. 7. Can not prepare meals. 8. Accepts change: actively adapts, makes plans, handles crises well, is confident. 9. Accepting of changes, but needs some help in adapting and making plans and decisions. 9. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 9. Neutral or passive. Requires regular assurance and/or guidance. 9. Withdrawn, afraid, or insecure; consistently needs support. 8. Withdrawn, afraid, or insecure; consistently needs support. 8. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: 9. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one of these kinds of groups if reminded and/or assisted to, but needs prompting and encouragement to participate; or is only responsive when visited by a particular person or a limited number of people. 9. Not able or willing to go to activities of any of these kinds of groups, nor to be involved if present at them. May not be responsive to visitors, may have no social relationships. 8. CLUSTER B-7: INDEPENDENT ACTIVITIES, in which the individual actively responds. 9. Spends most of the time each day on a variety of self-moclivated or independent activities, including reading. 1. Spends most of the time each day on a variety of self-moclivated or independent activities, including reading.
	1. Is capable of preparing own meals. 2. Is usually capable of preparing own meals. 3. Is usually capable of preparing gown meals. 4. Can occasionally prepare light meals, but needs help with main meals. 5. Can not prepare meals. 6. Can not prepare meals. 6. Can not prepare meals. 7. CLUSTER B-5: RESPONSE TO CHAMEES IN SOCIAL RELATIONSHIPS AND LIVING ARRANGEMENTS 7. Accepting of changes, but needs some help in adapting and making plans and decisions. 8. Actively resistant to change; refuses to make decisions; consistently negative or hostile. 8. Neutral or passive. Requires regular assurance and/or guidance. 8. Withdrawn, afraid, or inserure; consistently needs support. 6. CLUSTER B-6: PARTICIPATION IN SOCIAL ACTIVITIES, assuming that these are or could be made available. 9. Able to decide independently the kinds and extent of social activities in which to participate, and to arrange to participate, in groups such as family, neighbors, church/fraternal/occupational/ social/political/organization[s]: living facility; etc. 9. Able and willing to be involved regularly in social activities with at least one kind of group. 9. Able and willing to participate in activities with at least one of these kinds of groups if reminded and/or assisted to do so. 9. Able and willing to go to or be present at activities of at least one of these kinds of groups if reminded and/or assisted to, but needs prompting and encouragement to participate; or is only responsive when visited by a particular person or a limited number of people. 9. Not able or willing to go to activities of any of these kinds of groups, nor to be involved if present at them. May not be responsive to visitors, may have no social relationships. 1. Spends most of the time each day on a variety of self-motivated or independent activities, including reading, hobbies, crafts, occupations.
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CLUSTER B-9: ABILITY TO COMMUNICATE FACE-TO-FACE 1. Individual can communicate and organize information with detail appropriate to the situation; can state name, address, telephone number, time and place accurately and appropriately. 2. It beginning to have problems of organizing or remembering information; for example, can usually state name, address, telephone number, accurately and appropriately; or must, but does, use 1.0. card for these purposes. 3. Can not always provide information relevant to a situation; can identify self only sometimes or does so incompletely; gives name but not address, for example. 4. Can seldom identify self, even with 1.0. card, or cook so inaccurately at least some of the time. 5. Can not state name/address/telephone number information accurately and appropriately; can not use 1.0. for these
purposes. CLUSTER R-10: ABILITY TO COMMUNICATE BY TELEPHONE, when a telephone is available and convenient; with special equipment
if needed. 1. Is capable of making and taking calls appropriately, and about as frequently as some years ago. 2. Makes and takes calls appropriately, but not nearly as frequent as before; can use phone appropriately in emergency. 3. Makes few calls, but takes calls and mandles most of them appropriately. 4. Makes few or no calls, but takes some calls and handles at least some appropriately; or occasionally abuses use of
 talephone. 5. Neither makes nor takes calls appropriately; or consistently abuses use of telephone. CUSTER B-11: MATURAL PHYSICAL CARE AND SUPPORT; availability and commitment of friends/family/neighbors/volunteers to
give physical care if and when necessary. 1. One or more persons available to give care for the foreseeable future.
- a wastable to give fare for several months.
 One or more persons available to give care from time to time for several months. One or more persons available to give care from time to time for several months. Several persons available to nelp out, one at a time or in rotation, from time to time, but there is no one to take overall responsibility for helping on a regular basis.
 No person available to help except pernaps under extreme distincts. NATURAL EMOTIONAL AND SOCIAL SUPPORT; availability and complement of friends/family/neighbors/volunteers
to give emotional and social support if and when necessary. 1. One or more persons available to give support for the foreseeable future. 2. One or more persons available to give support for several months.
3. One or more persons available to give support from time to time for several monoto. A Several persons available to help out, one at a time or in rotation, from time to time, but there is no one to take
overall responsibility for helping on a regular basis.

APPENDIX B

Interim Recommendations for ADL/Self-Management Skill Categories

Placement and Reimbursement Category	1. A.D.L.								
Placement and Reimbursement Sub-Category	l Eating/ Nutrition	2 Dressing	3 Bathing/ Personal Hygiene	4 Mobility		5 Bowel & Bladder	-76	6 Behavior	ior
PIB-II Scales	A A 5a 6	A 16a	A 17a	A A 3a 4	A 18a	A 19a	A 20a	A	22 B
Designated "Independent" Under SSD LTC Policy	1 2 2	7	1 2	1 2 2 3 3	2	3 2 1	32 -	2	- 2
Designated "Needs assistance" Under SSD LTC Policy	£ 4 3	ĸ4	3	4 5 6 5	w 4 r	4 %	5	m 4	w 4
Designated "Dependent" Under SSD LTC Policy	6 4 7 5	വ	22	8	9 8 8	9	9	0 2	22

Interim Recommendation for ADL/Self-Management Skill Categories by Michael Saslow, Oregon State Health Planning and Development Agency to Lucille Pugh, Oregon Senior Services Division. November 29, 1983.

Placement and					
Reimbursement Category	2. Self-Man	Self-Management Skills			
Placement and Reimbursement Sub-Category	l Medication Management	2 Transportation	3 Meal Preparation	4 Shopping	5 Maintenance of Household
PIB-II Scales	A 10		4 4	B 2	33 8
Designated "Independent" Under SSD LTC Policy	1 2	1 2	5 - 2	2 - 2	
Designated "Needs Assistance" Under SSD LTC Policy	8 4 3 × 6 × 8	3	к 4	ω 4	2 8 4
Designated "Dependent" Under SSD LTC Policy	9 10	Ŋ	ις	rc	.CJ

APPENDIX C
Reimbursement Categories

DAILY		Category 3 Scheduled Care Needs ADL's: Dependent - 4 or more Need Assistance? Remainder Dependent Stills: Dependent - 5 or more Need Assistance? Remainder Self-Management Skills: Dependent - 5 or more Need Assistance? Remainder Stable Condition May Need Routine Nursing Tasks	Category 4 Scheduled Care Needs ADL's: Dependent - 1-3 Need Assistance Remainder Independent Skills: Dependent - 0-4 Need Assistance Remainder Independent Stable Condition May Need Routine Nursing Tasks	Category 5 Scheduled Care Needs ADL's: Dependent - 0 Independent - 1+ 1+ 4+ 4+ 4+ 4+ 4+ 4+ 4+ 4+ 4+ 4+ 4+ 4+ 4+
L IVE-IN		Category 3 Unscheduled Care Needs ADL's: Dependent - 4 or more Need Assistance Remainder Dependent - 5 or more Need Assistance Remainder Self-Management Skills: Dependent - 5 or more Need Assistance? Remainder Independent Stable Condition May Need Routine Nursing Tasks	Category 4 Unscheduled Care Needs ADL's: Dependent - 1-3 Need Assistance Remainder Independent - 0-4 Dependent - 0-4 Independent - 0-4 Independent - Salf-Management Skills: Salf-Management Skills: Cate Assistance Remainder Independent - Stable Condition May Need Routine Nursing Tasks	Category 5 Protective Supervision/ Unscheduled Care Needs ADL's: Dependent - a 1 Neat 4 Need Assistance - Remainder Self-Management Skills: Dependent - Item 12 Needs Assistance - at least 4 Independent - Remainder Stable Condition May Need Routine Nursing Tasks
ADULT FOSTER HOME Gategory 1 Daily Supervision Daily Nursing Tasks (PBH/HHA Licensed Provider) ADL's: Dependent - 4 or more Need Assistance, Remainder Unstable Condition Supervised Environment	Category 2 Daily Supervision Daily Nursing Tasks (PDH/HHA Licensed Provider) ADL's: Dependent - 1-3 Need Assistance Remainder Independent Burstable Condition	Category 3 Daily Supervision ADL's: Dependent - 4 or more Need Assistance? Remainder Independent Stable Condition Supervised Environment May Need Routine Nursing Tasks by Licensed Provider (or PDN*)	Category 4 Daily Supervision ADL's: Dependent - 1-3 Needs Assistance? Remainder Independent Stable Condition Supervised Environment May Need Routine Nursing Tasks by Licensed Provider (or PDN*)	Category 5 Daily Supervision ADL's: Dependent - 0 Independent - 2t least 4 Needs Assistance - Remainder Stable Condition Supervised Environment May Need Routine Nursing Tasks by Licensed Provider (or PDN*)
RESIDENTIAL CARE FACILITY			Category 4 Do Not Need Nursing Management or Availability Daily Supervision ADL's: Dependent - 1-3 Needs Assistance } Remainder Independent Stable Health Needs/Condition Structured Environment to Maintain Stability *May need Nursing Tasks PDN/HHA	Do not need Nursing Management or Avalability Daily Supervision ADL's: Dependent - O Independent - AF 144.51 4- Need Assistance - Remainder State Health Needs/Condition Structured Environment to Maintain Stability *May Need Nrsng. Tasks PDH/HHA
NURSING FACILITY Category 1 Daily Nursing Management Daily Direct Nursing/ Rehab. Service(s) ADL's: Dependent - 4 or more Need assistance Remainder Independent Unstable Health Needs/Condition	Category 2 Daily Nursing Management Daily Direct Nrsng/Rehab Svcs. ADL's: Dependent - 1-3 Need Assistance, Remainder Independent } Self Skills Management - N/A Unstable Health Needs/Condition	Category 3 Less Than Daily Mursing Management but RN available Routine Direct Nursing/Less Than Daily Rehab. Service(s) ADL's: Dependent - 4 or more Need Assistance Remainder Stable Health Needs/Condition Structured Environment to Maintain Stability	Category 4 Less Than Daily Mursing Management but RN available Routine Direct Nursing/Less Than Daily Rehab. Service(s) ADL's: Dependent - 1-3 Independent or Need Assistance with Remainder Stable Health Needs/Condition Structured Environment to Maintain Stability	Category 5 Less Than Daily Nursing Mgmt but RN available Routine Direct Nursing - Daily or Less ADL's: Dependent - 0 Independent - 4 Need Assistance - Remainday Stable Health Needs/Condition Structured Environment to Maintain Stability

APPENDIX D
Human Subjects Exemption

THE OREGON HEALTH SCIENCES UNIVERSITY

Research Services

3181 S.W. Sam Jackson Park Road Portland, Oregon 97201 (503) 225-7784

March 17, 1984

Joan Carr LaPorte, B.S.N.

SON

Re: ORS# 1579

TITLE: Assessing inter-rater Reliability of the placement Information Base Version 2A

Your above entitled study now falls under one of the categories which is now considered to be exempt from the requirement for committee on Human Research review. We, therefore, have put your study into our exempt files and you will receive no further communication from our Committee concerning this study.

if the involvement of human subjects changes in this study you should contact the Committee on Human Research to find out whether or not these changes need to be reviewed.

If you have any questions regarding this change of status of your above stgudy contact Donna Buker at x7887.

Sincerely,

Michael A. Wall, M.D., Chairman Committee on Human Research

MAW: db



AN ABSTRACT OF THE THESIS OF

JOAN CARR LaPORTE

For the MASTER OF NURSING

Date of Receiving this Degree: June 8, 1984

Title: INTER-RATER RELIABILITY: SELECTED PIB (2A) SCALES

Approved: Darlene Schroedl McKenzie, R.N., Ph.D., Thesis Advisor

This study examines the inter-rater reliability of the Placement Information Base (2A) when used as an assessment instrument to determine dependency in activities of daily living (ADLs) for Medicaid clients in Oregon. The purpose of the study is to evaluate the reliability of the 11 PIB (2A) scales used to determine dependency in ADLs. How often subjects were assigned to the same Functional Category (a breakdown of ADL dependencies to 0, 1 to 3, or 4 or more dependencies) is examined.

The sample studied were 193 clients whose care was reimbursed by Medicaid in December 1983. Placement settings included nursing homes, residential care homes, foster care homes and subjects' homes. Subjects were independently rated by two raters using the PIB (2A). Rating teams consisted of various combinations of case workers, social workers, or registered nurses. Secondary data collected by SSD were utilized.

Ratings were cross tabulated (rater one by rater two), by PIB scale and by Functional Category.

The PIB (2A) scales have Cohen's kappas ranging from .29 to .65. The percent of exact agreement between raters ranges from 51.8% to 74.8% on the scales studied. Scales A3a (Mobility), A5a (Nutritional Status) and B5 (Response to Changes in Social Relationships and Living Arrangements), are identified as having the lowest agreement between raters.

Overall, raters agree with a kappa of .76 on Functional Category assignment. The percent agreement on Functional Category assignment is 79.3%. Raters agree in community settings more often (90.41%) than in nursing home settings (70%).

Possible reasons for the low rates of agreement on some scales are given. Factors leading to low agreement in the nursing home setting are discussed.

It was recommended that PIB (2A) scales with low agreement be reexamined and retested in order to improve the agreement and therefore the inter-rater reliability of the PIB (2A).