MANUAL FOR THE WELL-BEING INVENTORY (WBI):

A multidimensional tool for assessing key contributors to well-being





Well-Being Inventory

Multidimensional Assessment Tool





Co-Authored by:

Dawne Vogt, Ph.D., Emily Taverna, B.A., Yael Nillni, Ph.D., & Fanita Tyrell, Ph.D.

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Bradford Booth Emily Bramande Laurel Copeland Erin Finley Cynthia Gilman Chris Jamieson Daniel Perkins WHSD Staff

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CHAPTER ONE: INTRODUCTION

This manual provides information on the development and validation of the Well-Being Inventory (WBI), scoring guidelines, and normative information that can be used to contextualize findings based on the WBI. The WBI is a multidimensional instrument that was designed to assess status, functioning, and satisfaction with four key life domains of vocation, finances, health, and social relationships. The WBI is the product of a multi-phase psychometric endeavor that was funded jointly by the National Center for Posttraumatic Stress Disorder, US Department of Veterans Affairs, Health Services Research & Development, and the Veteran Metrics Initiative, which is managed by the Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. Although the WBI was developed and validated for use with the military veteran population, it may also have utility for administration within other adult populations. The current chapter presents the rationale for developing the WBI, provides information on the constructs for the four key domains, and describes potential uses of the WBI.

Rationale for Developing the WBI

As specified in Vogt et al., (2018), our research team recently sought to identify a measure that could be used to provide a comprehensive, multidimensional assessment of the well-being of recently separated military veterans. Because we were not able to identify a measure that could fully meet this aim, we set out to develop a new tool that would fulfill this need and serve as a resource for others interested in assessing the life circumstances of military veterans and potentially other civilian populations as well. The theoretical framework that informed our conceptualization of well-being is presented in Table 1. This framework reflects the application of three dimensions of well-being proposed by Gladis and her colleagues (1999) to four life domains that have been the focus of prior work with both veteran and civilian populations (Berglass & Harrell, 2012; Bishop, Miller, & Chapin, 2008; Cummins, 1997). Together, this model addresses status, functioning, and satisfaction across vocational, financial, health, and social domains. Subdomains within the vocational domain include employment and educational experiences whereas the social domain includes three subdomains reflecting life circumstances with regard to intimate relationships, parenting, and relationships within the broader community.

Drawing from Jayawickreme and colleagues' (2012) concept of inputs and processes of well-being, components within this framework reflect life circumstances that are hypothesized to set the stage for positive well-being outcomes. Consistent with the writing of Gladis and her colleagues (1999), as well as Schnurr et al. (2009) and other scholars (e.g., Katschnig, 2006; Mogotsi et al., 2000), each component is considered a separate input of well-being that may or may not co-occur with other components. This assertion builds on the assumption that one can function well within a particular life domain but not be satisfied with it, as might be the case for the vocational well-being of an individual who is underemployed. Likewise, an individual may be satisfied with a given life domain but not function well within it, as might be the case for a young adult who engages in risky health behaviors but has not yet experienced the negative longer-term impact of these behaviors on their health status.

The focus on status in this framework builds on need-based theories of well-being, as exemplified in government tracking of factors such as employment and marital status (United States Department of Health, Education and Welfare, 1969). The focus on functioning builds on the work of Sen (1993) and others (Cooke, Melchert, & Connor, 2016; Holowka & Marx, 2012; Katschnig, 2006), who have highlighted the importance of optimal functioning in promoting well-being. The focus on life satisfaction draws from the recognition that subjective perceptions of life circumstances play a key role in how individuals experience their lives, as addressed in the work of Diener and Suh (1997) and others (Campbell, 1976; Forgeard et al., 2011). As applied to the key life domains of vocation, finances, health and social relationships, these factors provide a broad assessment of life circumstances that can set the stage for well-being.

Table 1. Measures in the Well-Being Inventory

| | Status | Functioning | Satisfaction |
|-------------------------|---|--|---|
| Vocation | Work: engagement in paid work, caregiving/ homemaking, and volunteer work Education: involvement in school or training | Work: reliability, quality of work, and management of interpersonal relationships in work setting Education: reliability, quality of work, and management of interpersonal relationships in educational setting | Work: Satisfaction with key aspects of work (e.g., nature of work, recognition of work contributions). Education: Satisfaction with key aspects of educational or training experience |
| Finances | Current financial circumstances and preparedness for future financial needs | Management of cash, credit and savings | Satisfaction with ability to afford essential and non-essential expenses, accumulation of savings, and debt |
| Health | Presence of chronic physical and mental health conditions, illnesses, or disabilities | Engagement in health promoting behaviors, risky health behaviors, and self- care | Satisfaction with mental and physical health, as well as health care |
| Social Relationships | Involvement in intimate relationship, parenting, and within one's broader community | Intimate: Demonstrates supportive, collaborative behaviors in intimate relationship Parenting: Demonstrates supportive, effective parenting strategies Broader Social Relationships: Engages in behaviors that support positive relationships within broader community | Intimate: Satisfaction with partner's contributions to relationship in terms of support and collaboration. Parenting: Satisfaction with relationship with children, parenting experience, children's well-being Broader Social Relationships: Satisfaction and belonging within broader community |

After clearly defining our approach to conceptualizing well-being, we reviewed existing measures to evaluate whether any of them could be used to address components within this framework. Because military veterans become civilians when they leave military service and must contend with all the same life concerns as other civilians (e.g., finding a job, managing their money, maintaining positive relationships), we reviewed measures in both the military veteran and civilian literature. Given that our goal was to assess factors that set the stage for well-being rather than what has been referred to as "achieved well-being" or "well-being outcomes" (Jayawickreme et al., 2012), such as positive emotions and purpose in life (e.g., Ryff & Keyes, 1995; Seligman, 2012), we omitted measures of this latter nature from consideration.

Although we identified several multidimensional measures of what could be considered "inputs and processes" of well-being, none of them provided separate assessments of the three dimensions of well-being we were interested in (i.e., status, functioning, and satisfaction) and none addressed veterans' objective life circumstances across multiple life domains. Moreover, many were primarily concerned with assessing health-

related quality of life, and either gave less attention to these domains or limited their assessment to how these domains are impacted by health status. In addition, most measures that addressed components included in the proposed framework (e.g., satisfaction with work) provided more in-depth assessments than were practical for the assessment of multiple building blocks of well-being. Because we were not able to identify a measure that could fully meet our needs we set out to develop a new measurement tool to use in our own research and that could serve as a resource to others who are also interested in studying inputs of well-being.

Description of Core WBI Constructs

The WBI is a multidimensional assessment tool designed to measure status, functioning, and satisfaction within the four life domains of vocation, finances, health, and social relationships. Core WBI constructs and their definitions are provided below:

VOCATION:

The vocational domain includes employment and educational subdomains.

Status: Labor force participation, paid employment, full vs. part-time employment, and full-time involvement in unpaid vocations, including schooling/training, volunteer work, and care-giving/homemaking.

Work Functioning: Reliability and quality of work, as well as effective management of interpersonal relationships in work setting.

Educational Functioning: Reliability and quality of work, as well as effective management of interpersonal relationships in educational or training setting.

Paid and Unpaid Work Satisfaction: Satisfaction with nature of work, recognition of work contributions, ability to apply skills and knowledge in work, and ability to advance vocational goals. For those with paid employment, this construct also includes satisfaction with pay/ benefits, and work environment.

Educational Satisfaction: Satisfaction with educational or training experience, advancement of career goals, and learning environment.

FINANCES:

Status: Current financial stability (able to maintain stable housing, manage debt, and afford expenses) and financial preparedness (has emergency savings, retirement savings, insurance coverage).

Functioning: Financial behavior with respect to cash management (e.g., following a budget), credit management (e.g., paying bills on time), and savings (e.g., contributing to savings account).

Satisfaction: Satisfaction with ability to afford both essential and non-essential expenses, as well as accumulation of savings and debt.

HEALTH:

Status: Presence of chronic physical or mental health conditions, illnesses, or disabilities.

Functioning: Engagement in health promoting behaviors, risky health behaviors, and self-care related to mental and physical wellness.

Satisfaction: Satisfaction with physical health, mental health, and health care.

SOCIAL RELATIONSHIPS (INTIMATE RELATIONSHIPS, PARENTING, AND BROADER SOCIAL RELATIONSHIPS):

The social relationship domain includes the three subdomains of intimate relationships, parenting, and broader social relationships.

Status (all subdomains): Involvement in intimate relationship, parenting, and the broader community.

Intimate Relationship Functioning: Demonstrates supportive and collaborative behavior (e.g., provides emotional and practical support, willing to engage in sexual activity and/or physical closeness).

Parental Functioning: Demonstrates supportive and effective parenting strategies (e.g., meets children's basic needs, demonstrates interest and involvement in children's activities).

Broader Social Functioning: Engages in behaviors that support positive relationships with friends, extended family, and the broader community (e.g., gets along with community members, available to provide support or help to extended family members or friends).

Intimate Relationship Satisfaction: Satisfaction with partner's contributions to relationship in terms of both support and collaboration (e.g., emotional and practical support, sexual and physical intimacy).

Parental Satisfaction: Satisfaction with relationship with children, parenting experience, and children's well-being.

Broader Social Satisfaction: Satisfaction and sense of belonging in relationships with friends, extended family members, and broader community.

Sample Items

Tables 2a-2d contains sample items, the response format, and section headings for core constructs addressed within the WBI. Please note that section headings are included here and in the document that lists all WBI items to orient readers to where the items are located in the full measurement tool; they, along with the names of particular constructs, should be removed before administering the WBI to respondents. In addition, the names of the constructs rather than section letters should be used in scientific presentations and publications.

Table 2a. Construct, Sample Items, and Response Format for Core WBI Vocational Measures

| Construct | Section | Sample Items | Response Format |
|--------------------------------------|---------|---|--|
| Status – Paid and Unpaid Work | A | What is your current employment status? | Polytomous items 0 = Not working for pay and not looking for paid work 1 = Not working for pay but actively looking for paid work 2 = Working for pay |
| | | Do you do any of the following types of unpaid work? | 0 = I do not do any unpaid work 1 = Full-time care of children under the age of 18 2 = Full-time care of an adult (for example, spouse/parent/disabled child 18 or over) 3 = Full-time homemaker without full-time child or elder care responsibilities 4 = Volunteer work (excluding time spent helping friends, relatives, and/or neighbors) |
| Work Functioning | В | Over the last 3 months, please indicate how often: You completed your work when expected. The quality of your work was excellent. | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Paid and Unpaid Work Satisfaction | С | Over the last 3 months, how satisfied have you been with: [For paid work:] Your pay and benefits. [For both paid and unpaid work:] How much your work contributions are valued. | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |
| Status – Education and Training | D | Are you currently pursuing additional education or attending a trade or technical/vocational school (excluding on-the-job training)? | Polytomous items 0 = No 1 = Yes, part-time (less than 12 credits of coursework, if in university setting) 2 = Yes, full-time (12 or more credits of coursework, if in university setting) |

| Construct | Section | Sample Items | Response Format |
|-----------------------------|---------|--|--|
| Educational Functioning | Е | Over the last 3 months of your education or training, please indicate how often: You completed all required coursework/training activities. You did your part to create a positive learning environment. | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Educational Satisfaction | F | Over the last 3 months of your education or training, how satisfied have you been with: The extent to which your education or training is advancing your career goals. Your learning environment. | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |

Table 2b. Construct, Sample Items, and Response Format for Core WBI Financial Measures

| Construct | Section | Sample Items | Response Format |
|--------------|---------|--|---|
| Status | G | Does your household have at least three months of your typical income set aside in case of an unexpected financial event? Are you able to pay for all necessary expenses each month, such as mortgage/rent, debt payments, and groceries? | G1-G4; G6 Dichotomous items 0 = No 1 = Yes G5 Polytomous items 0 = No 1 = Yes 9 = Not applicable |
| Functioning | H | Over the last 3 months, how often have you: Compared prices when buying a product or service. Had credit card debt that you did not pay off each month. | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Satisfaction | I | Over the last 3 months, how satisfied have you been with: Your ability to pay for necessities. The amount of savings you have. | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |

Table 2c. Construct, Sample Items, and Response Format for Core WBI Health Measures

| Construct | Section | Sample Items | Response Format |
|---|---------|--|--|
| Status | J | Do you have an ongoing physical health condition, illness, or disability (for example, high blood pressure, pain)? Do you have an ongoing mental/emotional health condition, illness, or disability (for example, depression, anxiety)? | Dichotomous items 0 = No 1 = Yes |
| Functioning (including health- promoting behavior, health risk behavior, and self-care) | K | Over the last 3 months, how often have you: Eaten a generally healthy diet (for example, low fat, limited sugar, adequate servings of fruits and vegetables). [Health-Promoting Item] Gotten at least 2.5 hrs of moderate physical activity OR 1 hr and 15 min of vigorous activity each week. | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Satisfaction | L | Over the last 3 months, how satisfied have you been with: Your emotional/mental health. Your health care. | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |

Table 2d. Construct, Sample Items, and Response Format for Core WBI Social Measures

| Construct | Section | Sample Items | Response Format |
|---------------------------------|---------|--------------------------------------|--|
| Intimate Relationship Status | M | What is your current marital status? | Polytomous items 1 = Never married 2 = Married-first and only marriage 3 = Married-second or later marriage 4 = Separated 5 = Divorced 6 = Widowed |

| Construct | Section | Sample Items | Response Format |
|--|---------|---|--|
| Intimate Relationship Functioning | N | Over the last 3 months, how often have you: Provided your significant other with the emotional support they sought. Initiated leisure time activities that both you and your significant other enjoy. | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Intimate Relationship Satisfaction | O | Over the last 3 months, how satisfied have you been with your significant other's contribution to the following aspects of your romantic relationship: Emotional closeness (for example, sharing personal thoughts and feelings). Security (for example, being able to trust and depend on partner) | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |
| Parental Status | P | Are you a parent or have you served in a parenting role during the past three months? | Dichotomous items $0 = No$ $1 = Yes$ |
| Parental Functioning | Q | Over the last 3 months, how often have you: Provided a healthy environment for your child(ren) (for example, preparing healthy meals, caring for their health, keeping them safe). Been able to successfully manage your child(ren)'s unique challenges (for example, effectively disciplining children). | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Parental Satisfaction | R | Over the last 3 months, how satisfied have you been with: How close you are with your child(ren). How much enjoyment you get from parenting. | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |

| Construct | Section | Sample Items | Response Format |
|--------------------------------|---------|--|--|
| Broader Social Involvement | S | Over the last 3 months, have you regularly: Participated in a religious or spiritual community. Volunteered for a charity, political group, or other local organization (for example, a service organization, a political campaign). | Dichotomous items 0 = No 1 = Yes |
| Broader Social Functioning | Т | Over the last 3 months, how often have you: Gotten along well with members of your community. Provided support or help to relatives other than your significant other or children when needed. | 5-point Likert scale (1 = Never; 5 = Most or all of the time) |
| Broader Social Satisfaction | U | Over the last 3 months, how satisfied have you been with: Your sense of belonging in your community. Your relationships with relatives other than your significant other or children. | 5-point Likert scale (1 = Very dissatisfied; 5 = Very satisfied) |

Potential Uses

The WBI includes 30 measures in total. These measures can be implemented to address research questions regarding the role that well-being plays in veterans' lives, including the extent to which well-being in one life domain begets enhanced well-being in other life domains. Furthermore, researchers can use one or more of the measures from the full inventory, depending on the purpose of the study or research question. Likewise, the WBI can be leveraged to provide a more comprehensive assessment of the impact of behavioral health interventions on individuals' lives than can be achieved with symptom measures alone. Given the applicability of WBI measures to other civilian populations, this instrument may also serve as a resource for those interested in assessing the well-being of other civilian adult populations as well. The WBI may also provide a useful tool for tailoring the provision of programs or services to individuals who would benefit from additional support. For example, the WBI might be used to guide the provision of tailored vocational support to reintegrating veterans, offering services such as mock interviews to individuals who report trouble obtaining a job, job skills training for those who report poor work performance, and career counseling for those who report being unhappy with their work.

CHAPTER TWO: ADMINISTRATION AND SCORING

Instructions

The WBI has four major sections that cover the life domains of vocation, finances, health, and social relationships. Consistent with the focus on status, functioning, and satisfaction within each of these domains, these broader categories are divided into several subsections that include different subsets of items (e.g., within the social relationships domain, different measures of status, functioning, and satisfaction are available for intimate relationships, parenting, and broader social relationships). A statement regarding the general purpose of the inventory is located at the beginning of the document that includes WBI items and more specific instructions for each section are included throughout the document. These instructions may be used by test administrators or they may adapt instructions as needed for their particular purpose.

In total, there are 21 sections of the WBI and 126 questions/statements. With the exception of contextual items, all items within each section must be administered to generate a score for the section. Contextual items are not required for scoring and can be used for descriptive purposes. In Section A, contextual items include A3-A7, A9, A10, A12, and A13. In Section D, contextual items include D2-D4. In Section G, contextual items include G7-G12. In Section J, contextual items include J3-J5. In Section M, contextual items include M3-M4. In section P, contextual items include P3-P4. The number of questions for each domain is as follows: 34 items for vocation, 24 for finances, 20 for health, and 48 for social relationships. Throughout the inventory, respondents are instructed to provide responses to categorical items (e.g., yes, no), or to endorse a single response from among statements using a 5-point Likert type response format (e.g., 1 = Never to 5 = Most or all of the time; 1 = Very dissatisfied to 5 = Very satisfied). As noted previously, measures within each domain may be extracted from the full inventory and are available to use as separate entities depending on the needs of the administrator and/or the purpose of the assessment.

Administration Guidelines

WBI measures may be administered via paper-and-pencil, internet, or telephone. If the full inventory is administered via paper-and-pencil it is important to explain to test-takers that some sections may not be relevant to them and that they can skip these sections (for example, individuals who are not parents should not be asked to complete parental functioning items).

The WBI includes both core items and contextual items. All core items must be administered within a given measure to generate a score for that measure. There is no special scoring required for contextual items; they are included to provide additional context on individuals' life circumstances within domains addressed in the WBI.

Respondents should be given adequate time to complete the WBI at a comfortable pace. If administered in its entirety, the WBI should take approximately 15-20 minutes to complete; however, individual measures take just a few minutes to complete.

Due to the sensitive nature of some of the items contained in the WBI, self-administration is the preferred administration method and care should be taken to ensure to ensure respondent privacy and confidentiality.

Please note that section headings are included in the document that lists all WBI items to orient readers to where items are located in the full measurement tool; they, along with the names of particular constructs, should be removed before administering the WBI to respondents.

The WBI has been administered to several samples of military veterans (see Normative Information). The reading level of the instrument, as assessed by Flesch-Kincaid Readability Index (Flesch, 1949), is 5.8, suggesting that this instrument is appropriate for individuals with a reading level of grade 6 or higher. Therefore, this instrument should be suitable for the majority of military veterans, as well as other adult civilians.

Scoring

Recommended guidelines for scoring the WBI measures are provided in Tables 3a-3d. These tables include the name of each WBI construct, core items included in that section, and scoring instructions for primary WBI measures. For functioning and satisfaction scales, average item scores are computed to aid with the interpretation of scores. SPSS syntax for the computation of the WBI measures is provided in Appendix A. In addition, instructions for creating combined functioning and satisfaction measures across WBI domains are provided in Appendix B; however, it is important to note that this combined scoring approach has not yet been validated and therefore should be used with caution.

Table 3a. WBI Scoring Guidelines for Vocational Measures

| Construct | Core Items | Scoring Instructions |
|-----------|------------------------|--|
| Status | A1, A2, A8, A11, D1 | Workforce Participation (A1) If working for pay OR not working for pay but actively looking for paid work, then = 1; If not working for pay and not looking for paid work, then = 0 |
| | | Paid Employment Status (A1) If workforce participation = 1 and working for pay, then = 1; If workforce participation = 1 and not working for pay but actively looking for paid work, then = 0 |
| | | Full-time Employment (A2) If paid employment status = 1 and working hours \geq 30 hrs per week, then = 1; If paid employment status=1 and working hours $<$ 30 hrs per week, then = 0 |
| | | Educational Involvement (D1) If pursuing full-time education or attending trade or technical/vocational school, then = 2; If pursuing part-time education or attending trade or technical/vocational school, then = 1; If no school/vocational training, then = 0 |
| | | Full-time Volunteer Work (A11) If unpaid volunteer work ≥ 30 hours per week, then = 1; If unpaid volunteer work < 30 hours per week, then = 0 |
| | | Full-time Homemaker or Caregiver (A8) If full-time homemaker or caregiver, then = 1; If not full-time homemaker or caregiver, then = 0 |
| | | Vocation Status (A1, A2, A8, A11, D1) If ≥ 30 hrs per week paid (A2) or unpaid vocation (including full-time educational involvement) (D1), volunteering (A11), or homemaking/caregiving (A8), then = 2 (full-time vocation); If < 30 hrs per week paid (A2) or unpaid vocation (A11) = 1 (part-time vocation); If no paid (A1) or unpaid vocation (A8), then = 0 (no vocation) |

| Construct | Core Items | Scoring Instructions |
|-----------------------------|------------|--|
| Work Functioning | B1-B4 | Average item score [created by summing all relevant items and dividing by the total number of items in scale] such that higher scores indicate better work functioning |
| Paid Work Satisfaction | C1-C6 | Average item score such that higher scores indicate greater satisfaction with one's work experiences |
| Unpaid Work Satisfaction | C3-C6 | Average item score such that higher scores indicate greater satisfaction with one's work experiences |
| Educational Functioning | E1-E4 | Average item score such that higher scores indicate better educational functioning |
| Educational Satisfaction | F1-F3 | Average item score such that higher scores indicate greater satisfaction with education or training experiences |

Table 3b. WBI Scoring Guidelines for Financial Measures

| Construct | Core Items | Scoring Instructions |
|--------------|--------------|---|
| Status | G1-G6 | Reverse score items G5 and G6 (no = 1; not applicable = 1; yes = 0). |
| | | Reverse score item G6 (no = 1; yes = 0). |
| | | Sum score calculated for three items that assess immediate financial needs (G1, G5, G6) |
| | | Sum score calculated for three items that assess preparedness for financial future (G2-G4) |
| | | If immediate financial needs < 3, then = 0 (problematic financial status); If immediate financial needs = 3 AND financial future < 3, then = 1 (at-risk financial status); |
| | | If immediate financial status = 3 AND financial future = 3, then = 2 (secure financial status) |
| Functioning | H1-H8 | Reverse score items H4, H5, and H6 $(1=5)(2=4)(3=3)(4=2)(5=1)$ |
| | | Average item score such that higher scores indicate better financial functioning |
| Satisfaction | <i>I1-I4</i> | Average item score such that higher scores indicate greater satisfaction with one's finances |

Table 3c. WBI Scoring Guidelines for Health Measures

| Construct | Core Items | Scoring Instructions |
|-----------|------------|--|
| Status | J1-J2 | If both J1 and J2 = 0, then = 2 (no chronic health conditions); If either J1 or J2 = 1, then = 1 (chronic physical or mental health conditions); If both J1 and J2=1, health status, then = 0 (both chronic physical and mental health conditions) |

| Construct | Core Items | Scoring Instructions |
|--------------|------------|---|
| Functioning | K1-K12 | Reverse score items K5, K6, K7, and K8 (1= 5) (2 = 4) (3= 3) (4 = 2) (5 = 1) |
| | | Average item score such that higher scores indicate better health functioning |
| | | After reverse scoring appropriate items, all items are averaged to create an overall health functioning score; K1-K3 are averaged to create a "health promotion" score; reverse-scored items K5-K8 are averaged to create a "risk avoidance" score; K4 and K9-K12 are averaged to create a "self-care" score. |
| Satisfaction | L1-L3 | Average item score such that higher scores indicate greater satisfaction with one's health |

Table 3d. WBI Scoring Guidelines for Social Measures

| Construct | Core Items | Scoring Instructions |
|--|----------------------|--|
| Status | M1, M2, P1, S1-S7 | Intimate Relationship Status (M1, M2) If in intimate relationship, then = 1; If not, then = 0 |
| | | Parental Status (P1) If in parenting role, then = 1; If not, then = 0 |
| | | Broader Social Involvement (S1-S7) If endorsement of any of the items for broader community involvement (i.e., S1-S5) AND regular contact with friends/or extended family (i.e., S6 and S7), then = 2; If endorsement of any type of community involvement OR regular contact with friend/extended family, then = 1; If no endorsement of any type of community involvement or regular contact with friends/extended family, then = 0 |
| Intimate Relationship Functioning | NI-N6 | Average item score such that higher scores indicate better intimate relationship functioning |
| Intimate Relationship Satisfaction | 01-06 | Average item score such that higher scores indicate greater intimate relationship satisfaction |
| Parental Functioning | Q1-Q5 | Average item score such that higher scores indicate better parental functioning |
| Parental Satisfaction | R1-R3 | Average item score such that higher scores indicate greater satisfaction with being a parent |
| Broader Social Functioning | T1-T9 | Average item score such that higher scores indicate better social functioning |
| Broader Social Satisfaction | <i>U1-U4</i> | Average item score such that higher scores indicate greater satisfaction in social relationships |

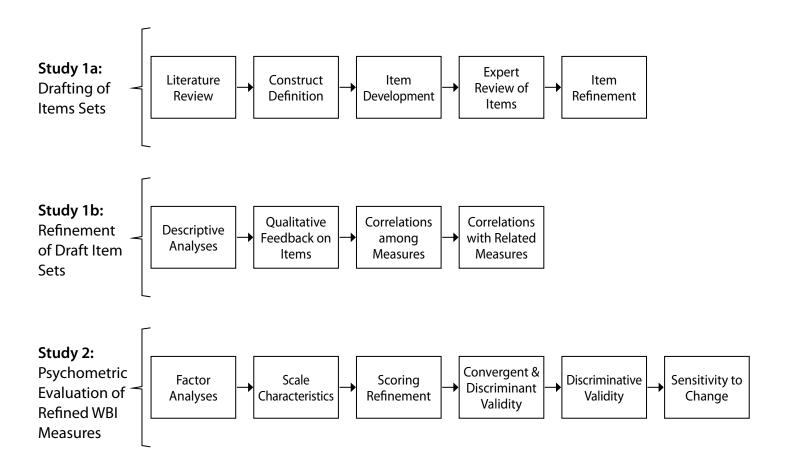
CHAPTER THREE: INSTRUMENT DEVELOPMENT AND PSYCHOMETRIC PROPERTIES

As specified in Vogt et al. (2019) and shown in Figure 1, the development and validation of this inventory involved an initial focus on defining and operationalizing focal constructs, obtaining feedback on draft item sets from content and instrument development experts (including members of the veteran population), and refining items based on that feedback. Following this initial work, two multi-part studies were conducted. The first study involved refining initial item sets and confirming their unique focus vis a vis other widely used measures of well-being based on data collected at two timepoints. The second study was conducted to examine the psychometric characteristics of newly developed WBI measures within a larger sample of post-9/11 veterans who completed these measures on two occasions. Data from the first timepoint were used to examine the factor structure underlying the functioning and satisfaction measures and to evaluate the ability of draft WBI measures to discriminate among those with and without mental health conditions. Data from the first and second timepoint were used to evaluate the measures' sensitivity of change. Data from the second timepoint were also used to confirm the factor structure underlying the functioning and satisfaction measures and to compute item and scale characteristics for all finalized WBI measures.

According to the Consensus-based Standards for the Selection of Health Status Measurement Instruments, the methodological requirements for a useful measure are that it is reliable, valid, and responsive to change (Mokkink et al., 2010). Initial evidence for each of these characteristics was provided in this set of studies, as detailed in Vogt et al. (2019). Confirmatory factor analyses of the functioning and satisfaction measures revealed a multidimensional structure that was largely consistent with the proposed theoretical framework. Cronbach's alphas were satisfactory, with an average alpha of 0.86. Findings also generally supported the ability of WBI measures to discriminate among groups expected to differ in well-being and to capture expected change over time. A detailed overview of the process implemented to develop and validate the WBI is available in Vogt et al. (2019).

Vogt, D., Taverna, E. C., Nillni, Y. I., Booth, B., Perkins, D. F., Copeland, L. A., Finley, E. P., Tyrell, F. A., & Gilman, C. L. (in press2019). Development and Validation of a Tool to Assess Military Veterans' Status, Functioning, and Satisfaction with Key Aspects of their Lives. *Applied Psychology: Health and Well-Being*, 11(2), 328-349.. doi:10.1111/aphw.12161

Figure 1. Well-Being Inventory (WBI) Development and Validation Procedure



CHAPTER FOUR: NORMATIVE INFORMATION

Although the WBI is not a clinical tool, knowledge of the scoring profiles of different samples of respondents may help researchers evaluate how their study samples compare to the larger population. In addition, this information might be useful to those who wish to identify individuals who may benefit most from efforts to bolster their well-being. Below, in Tables 4a and 4b, we provide weighted proportions and means for veterans surveyed approximately nine months after separating from military service. Non-response bias weights were calculated based on the gender, rank/paygrade, and branch of service of individuals in the sampling frame and applied to analyses to enhance the representativeness of findings to the larger population of veterans. Tables 4-10 provide proportions and means for the full sample and for veteran subgroups based on gender (women versus men), age (individuals 35 and younger versus older than 35), race/ethnicity [majority (European American descent) versus minority racial/ethnic status (non-European American descent)], enlisted personnel versus officers, Active Duty versus National Guard/Reservist personnel, and different branches of active duty military service (Army, Navy, Airforce, and Marine Corps).

Table 4a. Weighted Proportions for the Full Veteran Sample

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|--|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 14.30 | 13.44 | 15.16 |
| Workforce Participation: | IN THE WORKFORCE | 85.70 | 84.84 | 86.56 |
| Employment Status: | UNEMPLOYED | 20.61 | 19.48 | 21.74 |
| Employment Status: | EMPLOYED | 79.39 | 78.26 | 80.52 |
| Employment Type: | PART-TIME | 12.56 | 11.52 | 13.60 |
| Employment Type: | FULL-TIME | 87.44 | 86.40 | 88.48 |
| Vocation Status: | NO VOCATION | 8.78 | 8.04 | 9.51 |
| Vocation Status: | PART-TIME VOCATION | 6.03 | 5.41 | 6.65 |
| Vocation Status: | FULL-TIME VOCATION | 85.19 | 84.27 | 86.11 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 68.16 | 66.96 | 69.35 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.50 | 4.93 | 6.08 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 26.34 | 25.21 | 27.47 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 39.49 | 38.22 | 40.76 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 31.58 | 30.40 | 32.76 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 28.93 | 27.79 | 30.07 |
| Financial Status: | PROBLEMATIC | 18.39 | 17.34 | 19.44 |
| Financial Status: | AT RISK | 40.38 | 39.12 | 41.64 |
| Financial Status: | SECURE | 41.23 | 39.98 | 42.47 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 19.19 | 18.12 | 20.26 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 80.81 | 79.74 | 81.88 |

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|-----------------------------|---|-------|--------------------|-----------------------|
| Parental Status: | NOT A PARENT | 44.52 | 43.24 | 45.80 |
| Parental Status: | PARENT | 55.48 | 54.19 | 56.76 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 8.79 | 8.03 | 9.54 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 31.21 | 30.01 | 32.41 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 60.00 | 58.73 | 61.26 |

Table 4b. Weighted Means for the Full Veteran Sample

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.49 | 4.47 | 4.51 |
| Paid Work Satisfaction | 3.92 | 3.90 | 3.95 |
| Unpaid Work Satisfaction | 3.67 | 3.59 | 3.74 |
| School Functioning | 4.35 | 4.32 | 4.39 |
| School Satisfaction | 4.23 | 4.19 | 4.26 |
| Financial Functioning | 3.78 | 3.76 | 3.80 |
| Financial Satisfaction | 3.42 | 3.39 | 3.45 |
| Health Functioning | 3.96 | 3.94 | 3.97 |
| HF – health promotion | 3.41 | 3.38 | 3.44 |
| HF – risk avoidance | 4.64 | 4.62 | 4.65 |
| HF – self-care | 3.74 | 3.72 | 3.76 |
| Health Satisfaction | 3.55 | 3.52 | 3.57 |
| Relationship Functioning | 3.95 | 3.93 | 3.97 |
| Relationship Satisfaction | 4.01 | 3.98 | 4.04 |
| Parental Functioning | 4.60 | 4.58 | 4.62 |
| Parental Satisfaction | 4.55 | 4.53 | 4.58 |
| Broader Social Functioning | 3.91 | 3.89 | 3.93 |
| Broader Social Satisfaction | 3.87 | 3.84 | 3.89 |

Table 5a. Weighted Proportions for Female Veterans

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 23.18 | 20.81 | 25.55 |
| Workforce Participation: | IN THE WORKFORCE | 76.82 | 74.44 | 79.19 |
| Employment Status: | UNEMPLOYED | 27.31 | 24.27 | 30.34 |
| Employment Status: | EMPLOYED | 72.69 | 69.66 | 75.73 |
| Employment Type: | PART-TIME | 19.12 | 15.96 | 22.28 |
| Employment Type: | FULL-TIME | 80.88 | 77.72 | 84.03 |
| Vocation Status: | NO VOCATION | 8.47 | 6.86 | 10.08 |
| Vocation Status: | PART-TIME VOCATION | 7.02 | 5.56 | 8.48 |
| Vocation Status: | FULL-TIME VOCATION | 84.51 | 82.42 | 86.60 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 62.31 | 59.45 | 65.17 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 8.69 | 7.05 | 10.33 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 29.00 | 26.34 | 31.66 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 34.63 | 31.74 | 37.52 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 30.62 | 27.88 | 33.35 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 34.75 | 31.95 | 37.55 |
| Financial Status: | PROBLEMATIC | 19.29 | 16.89 | 21.69 |
| Financial Status: | AT RISK | 38.96 | 36.02 | 41.89 |
| Financial Status: | SECURE | 41.75 | 38.84 | 44.67 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 23.39 | 20.80 | 25.98 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 76.61 | 74.01 | 79.20 |
| Parental Status: | NOT A PARENT | 46.92 | 43.94 | 49.90 |
| Parental Status: | PARENT | 53.08 | 50.10 | 56.06 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 6.92 | 5.42 | 8.42 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 31.59 | 28.78 | 34.40 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 61.49 | 58.56 | 64.41 |

Table 5b. Weighted Means for Female Veterans

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.46 | 4.42 | 4.51 |
| Paid Work Satisfaction | 3.92 | 3.84 | 3.99 |
| Unpaid Work Satisfaction | 3.74 | 3.62 | 3.86 |
| School Functioning | 4.38 | 4.31 | 4.46 |
| School Satisfaction | 4.22 | 4.14 | 4.30 |
| Financial Functioning | 3.77 | 3.72 | 3.82 |
| Financial Satisfaction | 3.45 | 3.37 | 3.52 |
| Health Functioning | 4.05 | 4.02 | 4.09 |
| HF – health promotion | 3.48 | 3.41 | 3.54 |
| HF – risk avoidance | 4.78 | 4.75 | 4.81 |
| HF – self-care | 3.82 | 3.77 | 3.87 |
| Health Satisfaction | 3.50 | 3.43 | 3.56 |
| Relationship Functioning | 4.10 | 4.05 | 4.16 |
| Relationship Satisfaction | 4.06 | 3.99 | 4.13 |
| Parental Functioning | 4.70 | 4.66 | 4.74 |
| Parental Satisfaction | 4.65 | 4.60 | 4.71 |
| Broader Social Functioning | 4.04 | 3.99 | 4.09 |
| Broader Social Satisfaction | 3.88 | 3.82 | 3.94 |

Table 5c. Weighted Proportions for Male Veterans

| Workforce Participation: | | | (95% CI) | (95% CI) |
|---------------------------------|---|-------|----------|----------|
| 1 | OUT OF THE WORKFORCE | 12.62 | 11.70 | 13.54 |
| Workforce Participation: | IN THE WORKFORCE | 87.38 | 86.46 | 88.30 |
| Employment Status: | UNEMPLOYED | 19.50 | 18.28 | 20.72 |
| Employment Status: | EMPLOYED | 80.50 | 79.28 | 81.72 |
| Employment Type: | PART-TIME | 11.57 | 10.48 | 12.67 |
| Employment Type: | FULL-TIME | 88.43 | 87.33 | 89.52 |
| Vocation Status: | NO VOCATION | 8.83 | 8.01 | 9.66 |
| Vocation Status: | PART-TIME VOCATION | 5.85 | 5.16 | 6.53 |
| Vocation Status: | FULL-TIME VOCATION | 85.32 | 84.30 | 86.34 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 69.26 | 67.95 | 70.57 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 4.90 | 4.29 | 5.51 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 25.84 | 24.59 | 27.08 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 40.41 | 39.00 | 41.81 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 31.76 | 30.46 | 33.06 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 27.83 | 26.58 | 29.07 |
| Financial Status: | PROBLEMATIC | 18.22 | 17.06 | 19.38 |
| Financial Status: | AT RISK | 40.65 | 39.26 | 42.04 |
| Financial Status: | SECURE | 41.13 | 39.76 | 42.50 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 18.39 | 17.22 | 19.56 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 81.61 | 80.44 | 82.78 |
| Parental Status: | NOT A PARENT | 44.07 | 42.65 | 45.49 |
| Parental Status: | PARENT | 55.93 | 54.51 | 57.35 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 9.14 | 8.29 | 10.00 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 31.14 | 29.82 | 32.46 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 59.72 | 58.32 | 61.12 |

Table 5d. Weighted Means for Male Veterans

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.50 | 4.47 | 4.52 |
| Paid Work Satisfaction | 3.93 | 3.89 | 3.96 |
| Unpaid Work Satisfaction | 3.63 | 3.54 | 3.72 |
| School Functioning | 4.35 | 4.31 | 4.38 |
| School Satisfaction | 4.23 | 4.19 | 4.27 |
| Financial Functioning | 3.79 | 3.76 | 3.81 |
| Financial Satisfaction | 3.41 | 3.38 | 3.45 |
| Health Functioning | 3.94 | 3.92 | 3.95 |
| HF – health promotion | 3.40 | 3.37 | 3.43 |
| HF – risk avoidance | 4.61 | 4.59 | 4.63 |
| HF – self-care | 3.72 | 3.70 | 3.74 |
| Health Satisfaction | 3.56 | 3.52 | 3.58 |
| Relationship Functioning | 3.92 | 3.90 | 3.95 |
| Relationship Satisfaction | 4.00 | 3.97 | 4.04 |
| Parental Functioning | 4.58 | 4.56 | 4.60 |
| Parental Satisfaction | 4.53 | 4.51 | 4.56 |
| Broader Social Functioning | 3.89 | 3.86 | 3.91 |
| Broader Social Satisfaction | 3.86 | 3.84 | 3.89 |

Table 6a. Weighted Proportions for Veterans 35 and Younger

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 14.69 | 13.58 | 15.80 |
| Workforce Participation: | IN THE WORKFORCE | 85.31 | 84.20 | 86.42 |
| Employment Status: | UNEMPLOYED | 22.46 | 20.97 | 23.95 |
| Employment Status: | EMPLOYED | 77.54 | 76.05 | 79.03 |
| Employment Type: | PART-TIME | 15.60 | 14.14 | 17.05 |
| Employment Type: | FULL-TIME | 84.40 | 82.95 | 85.86 |
| Vocation Status: | NO VOCATION | 8.33 | 7.40 | 9.26 |
| Vocation Status: | PART-TIME VOCATION | 6.09 | 5.28 | 6.90 |
| Vocation Status: | FULL-TIME VOCATION | 85.58 | 84.40 | 86.76 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 60.82 | 59.25 | 62.39 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.34 | 4.64 | 6.05 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 33.84 | 32.32 | 35.36 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 45.75 | 44.12 | 47.37 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 28.04 | 26.59 | 29.49 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 26.21 | 24.80 | 27.62 |
| Financial Status: | PROBLEMATIC | 21.33 | 19.94 | 22.71 |
| Financial Status: | AT RISK | 41.36 | 39.76 | 42.96 |
| Financial Status: | SECURE | 37.31 | 35.76 | 38.86 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 23.26 | 21.83 | 24.68 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 76.74 | 75.32 | 78.17 |
| Parental Status: | NOT A PARENT | 58.01 | 56.42 | 59.60 |
| Parental Status: | PARENT | 41.99 | 40.39 | 43.58 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 9.62 | 8.62 | 10.63 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 33.71 | 32.16 | 35.26 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 56.66 | 55.04 | 58.28 |

Table 6b. Weighted Means for Veterans 35 and Younger

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.49 | 4.46 | 4.51 |
| Paid Work Satisfaction | 3.85 | 3.81 | 3.89 |
| Unpaid Work Satisfaction | 3.71 | 3.62 | 3.81 |
| School Functioning | 4.37 | 4.33 | 4.40 |
| School Satisfaction | 4.23 | 4.18 | 4.27 |
| Financial Functioning | 3.73 | 3.70 | 3.75 |
| Financial Satisfaction | 3.35 | 3.31 | 3.38 |
| Health Functioning | 3.93 | 3.91 | 3.94 |
| HF – health promotion | 3.46 | 3.41 | 3.48 |
| HF – risk avoidance | 4.58 | 4.56 | 4.60 |
| HF – self-care | 3.69 | 3.66 | 3.71 |
| Health Satisfaction | 3.51 | 3.48 | 3.55 |
| Relationship Functioning | 4.01 | 3.98 | 4.04 |
| Relationship Satisfaction | 4.06 | 4.03 | 4.10 |
| Parental Functioning | 4.64 | 4.61 | 4.66 |
| Parental Satisfaction | 4.64 | 4.60 | 4.67 |
| Broader Social Functioning | 3.93 | 3.90 | 3.96 |
| Broader Social Satisfaction | 3.83 | 3.80 | 3.86 |

Table 6c. Weighted Proportions for Veterans Older than 35

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 13.50 | 12.19 | 14.82 |
| Workforce Participation: | IN THE WORKFORCE | 86.50 | 85.18 | 87.81 |
| Employment Status: | UNEMPLOYED | 16.78 | 15.19 | 18.36 |
| Employment Status: | EMPLOYED | 83.22 | 81.64 | 84.80 |
| Employment Type: | PART-TIME | 6.66 | 5.55 | 7.78 |
| Employment Type: | FULL-TIME | 93.34 | 92.22 | 94.45 |
| Vocation Status: | NO VOCATION | 9.74 | 8.55 | 10.92 |
| Vocation Status: | PART-TIME VOCATION | 5.92 | 5.03 | 6.80 |
| Vocation Status: | FULL-TIME VOCATION | 84.35 | 82.92 | 85.77 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 83.60 | 82.11 | 85.10 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.85 | 4.86 | 6.83 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 10.55 | 9.34 | 11.76 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 26.35 | 24.49 | 28.21 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 39.00 | 37.03 | 40.96 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 34.65 | 32.75 | 36.55 |
| Financial Status: | PROBLEMATIC | 12.25 | 10.85 | 13.64 |
| Financial Status: | AT RISK | 38.27 | 36.28 | 40.26 |
| Financial Status: | SECURE | 49.48 | 47.45 | 51.50 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 10.60 | 9.29 | 11.91 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 89.40 | 88.08 | 90.71 |
| Parental Status: | NOT A PARENT | 16.15 | 14.63 | 17.67 |
| Parental Status: | PARENT | 83.85 | 82.33 | 85.37 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 7.05 | 6.04 | 8.06 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 25.97 | 24.18 | 27.76 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 66.98 | 65.07 | 68.89 |

Table 6d. Weighted Means for Veterans Older than 35

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.50 | 4.47 | 4.52 |
| Paid Work Satisfaction | 4.07 | 4.03 | 4.11 |
| Unpaid Work Satisfaction | 3.60 | 3.48 | 3.71 |
| School Functioning | 4.29 | 4.20 | 4.37 |
| School Satisfaction | 4.23 | 4.14 | 4.31 |
| Financial Functioning | 3.91 | 3.88 | 3.94 |
| Financial Satisfaction | 3.57 | 3.52 | 3.62 |
| Health Functioning | 4.02 | 3.99 | 4.04 |
| HF – health promotion | 3.33 | 3.29 | 3.37 |
| HF – risk avoidance | 4.75 | 4.73 | 4.77 |
| HF – self-care | 3.84 | 3.81 | 3.87 |
| Health Satisfaction | 3.61 | 3.57 | 3.66 |
| Relationship Functioning | 3.84 | 3.80 | 3.87 |
| Relationship Satisfaction | 3.92 | 3.88 | 3.97 |
| Parental Functioning | 4.55 | 4.52 | 4.58 |
| Parental Satisfaction | 4.45 | 4.41 | 4.48 |
| Broader Social Functioning | 3.88 | 3.84 | 3.91 |
| Broader Social Satisfaction | 3.94 | 3.91 | 3.98 |

Table 7a. Weighted Proportions based on Veterans' Majority Racial/Ethnic Status

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 13.88 | 12.83 | 14.93 |
| Workforce Participation: | IN THE WORKFORCE | 86.12 | 85.07 | 87.16 |
| Employment Status: | UNEMPLOYED | 15.82 | 14.56 | 17.08 |
| Employment Status: | EMPLOYED | 84.18 | 82.92 | 85.44 |
| Employment Type: | PART-TIME | 11.71 | 10.51 | 12.91 |
| Employment Type: | FULL-TIME | 88.29 | 87.09 | 89.49 |
| Vocation Status: | NO VOCATION | 6.95 | 6.13 | 7.76 |
| Vocation Status: | PART-TIME VOCATION | 5.52 | 4.79 | 6.25 |
| Vocation Status: | FULL-TIME VOCATION | 87.53 | 86.47 | 88.59 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 70.03 | 68.58 | 71.48 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.49 | 4.76 | 6.20 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 24.48 | 23.12 | 25.84 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 41.18 | 39.61 | 42.75 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 32.53 | 31.07 | 33.99 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 26.29 | 24.93 | 27.66 |
| Financial Status: | PROBLEMATIC | 13.68 | 12.53 | 14.83 |
| Financial Status: | AT RISK | 40.24 | 38.68 | 41.79 |
| Financial Status: | SECURE | 46.08 | 44.52 | 47.65 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 16.70 | 15.43 | 17.97 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 83.30 | 82.03 | 84.57 |
| Parental Status: | NOT A PARENT | 44.00 | 42.41 | 45.58 |
| Parental Status: | PARENT | 56.00 | 54.42 | 57.59 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 8.11 | 7.20 | 9.02 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 30.62 | 29.15 | 32.10 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 61.26 | 59.70 | 62.82 |

Note. Majority Racial/Ethnic Background = European American descent.

Table 7b. Weighted Means based on Veterans' Majority Racial/Ethnic Status

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.51 | 4.49 | 4.53 |
| Paid Work Satisfaction | 3.96 | 3.92 | 3.99 |
| Unpaid Work Satisfaction | 3.63 | 3.53 | 3.73 |
| School Functioning | 4.39 | 4.35 | 4.43 |
| School Satisfaction | 4.23 | 4.18 | 4.28 |
| Financial Functioning | 3.86 | 3.84 | 3.89 |
| Financial Satisfaction | 3.53 | 3.49 | 3.56 |
| Health Functioning | 3.99 | 3.98 | 4.01 |
| HF – health promotion | 3.46 | 3.43 | 3.49 |
| HF – risk avoidance | 4.63 | 4.61 | 4.65 |
| HF – self-care | 3.81 | 3.78 | 3.83 |
| Relationship Satisfaction | 4.08 | 4.05 | 4.11 |
| Parental Functioning | 4.61 | 4.59 | 4.64 |
| Parental Satisfaction | 4.56 | 4.53 | 4.59 |
| Broader Social Functioning | 3.95 | 3.93 | 3.98 |
| Broader Social Satisfaction | 3.90 | 3.88 | 3.94 |

Note. Majority Racial/Ethnic Background = European American descent.

Table 7c. Weighted Proportions based on Veterans' Minority Racial/Ethnic Status

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 15.01 | 13.50 | 16.51 |
| Workforce Participation: | IN THE WORKFORCE | 84.99 | 83.49 | 86.50 |
| Employment Status: | UNEMPLOYED | 28.73 | 26.59 | 30.87 |
| Employment Status: | EMPLOYED | 71.27 | 69.13 | 73.41 |
| Employment Type: | PART-TIME | 14.27 | 12.28 | 16.26 |
| Employment Type: | FULL-TIME | 85.73 | 83.74 | 87.72 |
| Vocation Status: | NO VOCATION | 11.86 | 10.44 | 13.27 |
| Vocation Status: | PART-TIME VOCATION | 6.89 | 5.78 | 8.00 |
| Vocation Status: | FULL-TIME VOCATION | 81.25 | 79.54 | 82.96 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 65.03 | 62.97 | 67.10 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.54 | 4.59 | 6.49 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 29.43 | 27.44 | 31.41 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 36.67 | 34.53 | 38.81 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 30.00 | 28.01 | 31.99 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 33.33 | 31.32 | 35.34 |
| Financial Status: | PROBLEMATIC | 26.28 | 24.30 | 28.26 |
| Financial Status: | AT RISK | 40.64 | 38.50 | 42.78 |
| Financial Status: | SECURE | 33.08 | 31.07 | 35.10 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 23.38 | 21.49 | 25.28 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 76.62 | 74.72 | 78.51 |
| Parental Status: | NOT A PARENT | 45.38 | 43.19 | 47.56 |
| Parental Status: | PARENT | 54.62 | 52.44 | 56.81 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 9.89 | 8.56 | 11.21 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 32.21 | 30.17 | 34.26 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 57.90 | 55.74 | 60.06 |

Note. Minority Racial/Ethnic Background = Non-European American descent.

Table 7d. Weighted Means based on Veterans' Minority Racial/Ethnic Status

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.45 | 4.41 | 4.48 |
| Paid Work Satisfaction | 3.86 | 3.80 | 3.91 |
| Unpaid Work Satisfaction | 3.72 | 3.60 | 3.83 |
| School Functioning | 4.30 | 4.24 | 4.36 |
| School Satisfaction | 4.23 | 4.17 | 4.28 |
| Financial Functioning | 3.65 | 3.62 | 3.69 |
| Financial Satisfaction | 3.24 | 3.18 | 3.29 |
| Health Functioning | 3.89 | 3.86 | 3.92 |
| HF – health promotion | 3.33 | 3.28 | 3.38 |
| HF – risk avoidance | 4.65 | 4.62 | 4.68 |
| HF – self-care | 3.62 | 3.59 | 3.66 |
| Relationship Satisfaction | 3.89 | 3.84 | 3.94 |
| Parental Functioning | 4.57 | 4.54 | 4.61 |
| Parental Satisfaction | 4.53 | 4.49 | 4.58 |
| Broader Social Functioning | 3.84 | 3.81 | 3.88 |
| Broader Social Satisfaction | 3.80 | 3.76 | 3.85 |

 $\it Note.$ Minority Racial/Ethnic Background = Non-European American descent.

Table 8a. Weighted Proportions based on Veterans' Enlisted/Warrant Service Rank

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 14.92 | 13.95 | 15.90 |
| Workforce Participation: | IN THE WORKFORCE | 85.08 | 84.10 | 86.05 |
| Employment Status: | UNEMPLOYED | 22.55 | 21.26 | 23.85 |
| Employment Status: | EMPLOYED | 77.45 | 76.15 | 78.74 |
| Employment Type: | PART-TIME | 13.82 | 12.60 | 15.03 |
| Employment Type: | FULL-TIME | 86.18 | 84.96 | 87.40 |
| Vocation Status: | NO VOCATION | 9.33 | 8.49 | 10.17 |
| Vocation Status: | PART-TIME VOCATION | 6.10 | 5.40 | 6.80 |
| Vocation Status: | FULL-TIME VOCATION | 84.57 | 83.52 | 85.61 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 64.93 | 63.58 | 66.28 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.68 | 5.03 | 6.33 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 29.39 | 28.11 | 30.68 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 38.62 | 37.21 | 40.03 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 30.65 | 29.34 | 31.96 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 30.73 | 29.45 | 32.01 |
| Financial Status: | PROBLEMATIC | 20.67 | 19.48 | 21.87 |
| Financial Status: | AT RISK | 43.26 | 41.84 | 44.66 |
| Financial Status: | SECURE | 36.07 | 34.71 | 37.43 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 21.01 | 19.80 | 22.22 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 78.99 | 77.78 | 80.20 |
| Parental Status: | NOT A PARENT | 46.59 | 45.16 | 48.02 |
| Parental Status: | PARENT | 53.41 | 51.98 | 54.84 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 9.83 | 8.96 | 10.69 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 33.66 | 32.31 | 35.01 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 56.51 | 55.10 | 57.93 |

Table 8b. Weighted Means based on Veterans' Enlisted/Warrant Service Rank

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.48 | 4.45 | 4.50 |
| Paid Work Satisfaction | 3.87 | 3.83 | 3.90 |
| Unpaid Work Satisfaction | 3.67 | 3.59 | 3.75 |
| School Functioning | 4.34 | 4.31 | 4.38 |
| School Satisfaction | 4.22 | 4.18 | 4.26 |
| Financial Functioning | 3.71 | 3.69 | 3.74 |
| Financial Satisfaction | 3.22 | 3.29 | 3.36 |
| Health Functioning | 3.91 | 3.89 | 3.92 |
| HF – health promotion | 3.36 | 3.33 | 3.39 |
| HF – risk avoidance | 4.60 | 4.58 | 4.62 |
| HF – self-care | 3.68 | 3.66 | 3.71 |
| Health Satisfaction | 3.48 | 3.45 | 3.51 |
| Relationship Functioning | 3.92 | 3.90 | 3.95 |
| Relationship Satisfaction | 3.98 | 3.95 | 4.01 |
| Parental Functioning | 4.59 | 4.57 | 4.61 |
| Parental Satisfaction | 4.55 | 4.52 | 4.58 |
| Broader Social Functioning | 3.89 | 3.87 | 3.91 |
| Broader Social Satisfaction | 3.83 | 3.80 | 3.86 |

Table 8c. Weighted Proportions based on Veterans' Officer Service Rank

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 10.63 | 9.11 | 12.14 |
| Workforce Participation: | IN THE WORKFORCE | 89.37 | 87.85 | 90.89 |
| Employment Status: | UNEMPLOYED | 9.72 | 8.12 | 11.32 |
| Employment Status: | EMPLOYED | 90.28 | 88.68 | 91.87 |
| Employment Type: | PART-TIME | 6.52 | 5.16 | 7.88 |
| Employment Type: | FULL-TIME | 93.48 | 92.12 | 94.84 |
| Vocation Status: | NO VOCATION | 5.51 | 4.34 | 6.68 |
| Vocation Status: | PART-TIME VOCATION | 5.62 | 4.54 | 6.70 |
| Vocation Status: | FULL-TIME VOCATION | 88.88 | 87.32 | 90.43 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 87.16 | 85.38 | 88.94 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 4.47 | 3.41 | 5.53 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 8.37 | 6.87 | 9.87 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 44.61 | 41.91 | 47.30 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 37.06 | 34.51 | 39.61 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 18.33 | 16.25 | 20.42 |
| Financial Status: | PROBLEMATIC | 4.96 | 3.65 | 6.27 |
| Financial Status: | AT RISK | 23.46 | 21.12 | 25.80 |
| Financial Status: | SECURE | 71.58 | 69.07 | 74.08 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 8.49 | 6.85 | 10.12 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 91.51 | 89.88 | 93.15 |
| Parental Status: | NOT A PARENT | 32.34 | 29.80 | 34.89 |
| Parental Status: | PARENT | 67.66 | 65.11 | 70.20 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 2.69 | 1.82 | 3.56 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 16.79 | 14.75 | 18.84 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 80.52 | 78.36 | 82.67 |

Table 8d. Weighted Means based on Veterans' Officer Service Rank

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.56 | 4.53 | 4.59 |
| Paid Work Satisfaction | 4.21 | 4.16 | 4.25 |
| Unpaid Work Satisfaction | 3.65 | 3.49 | 3.81 |
| School Functioning | 4.50 | 4.38 | 4.62 |
| School Satisfaction | 4.38 | 4.26 | 4.50 |
| Financial Functioning | 4.20 | 4.16 | 4.23 |
| Financial Satisfaction | 3.98 | 3.93 | 4.04 |
| Health Functioning | 4.24 | 4.21 | 4.27 |
| HF – health promotion | 3.73 | 3.68 | 3.78 |
| HF – risk avoidance | 4.86 | 4.85 | 4.88 |
| HF – self-care | 4.05 | 4.01 | 4.09 |
| Health Satisfaction | 3.96 | 3.91 | 4.00 |
| Relationship Functioning | 4.07 | 4.03 | 4.12 |
| Relationship Satisfaction | 4.19 | 4.13 | 4.24 |
| Parental Functioning | 4.64 | 4.60 | 4.68 |
| Parental Satisfaction | 4.55 | 4.50 | 4.60 |
| Broader Social Functioning | 4.04 | 4.00 | 4.08 |
| Broader Social Satisfaction | 4.10 | 4.06 | 4.14 |

Table 9a. Weighted Proportions based on Veterans' Active Duty Service Component

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 16.41 | 15.42 | 17.40 |
| Workforce Participation: | IN THE WORKFORCE | 83.59 | 82.60 | 84.58 |
| Employment Status: | UNEMPLOYED | 23.63 | 22.33 | 24.93 |
| Employment Status: | EMPLOYED | 76.37 | 75.07 | 77.67 |
| Employment Type: | PART-TIME | 14.64 | 13.41 | 15.87 |
| Employment Type: | FULL-TIME | 85.36 | 84.13 | 86.59 |
| Vocation Status: | NO VOCATION | 9.79 | 8.95 | 10.62 |
| Vocation Status: | PART-TIME VOCATION | 6.55 | 5.85 | 7.24 |
| Vocation Status: | FULL-TIME VOCATION | 83.67 | 82.63 | 84.70 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 65.36 | 64.06 | 66.67 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.00 | 4.43 | 5.57 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 29.64 | 28.38 | 30.90 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 34.81 | 33.49 | 36.13 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 32.79 | 31.53 | 34.06 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 32.39 | 31.13 | 33.66 |
| Financial Status: | PROBLEMATIC | 19.76 | 18.60 | 20.92 |
| Financial Status: | AT RISK | 41.14 | 39.80 | 42.48 |
| Financial Status: | SECURE | 39.10 | 37.80 | 40.40 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 19.49 | 18.34 | 20.65 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 80.51 | 79.35 | 81.66 |
| Parental Status: | NOT A PARENT | 45.95 | 44.58 | 47.32 |
| Parental Status: | PARENT | 54.05 | 52.68 | 55.42 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 9.63 | 8.78 | 10.48 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 32.56 | 31.26 | 33.86 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 57.81 | 56.45 | 59.17 |

Table 9b. Weighted Means based on Veterans' Active Duty Service Component

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.49 | 4.47 | 4.51 |
| Paid Work Satisfaction | 3.89 | 3.86 | 3.92 |
| Unpaid Work Satisfaction | 3.66 | 3.58 | 3.74 |
| School Functioning | 4.36 | 4.33 | 4.40 |
| School Satisfaction | 4.23 | 4.19 | 4.27 |
| Financial Functioning | 3.74 | 3.72 | 3.76 |
| Financial Satisfaction | 3.36 | 3.33 | 3.40 |
| Health Functioning | 3.91 | 3.90 | 3.93 |
| HF – health promotion | 3.34 | 3.32 | 3.37 |
| HF – risk avoidance | 4.61 | 4.59 | 4.63 |
| HF – self-care | 3.69 | 3.67 | 3.72 |
| Health Satisfaction | 3.47 | 3.44 | 3.50 |
| Relationship Functioning | 3.92 | 3.90 | 3.95 |
| Relationship Satisfaction | 3.99 | 3.96 | 4.02 |
| Parental Functioning | 4.58 | 4.56 | 4.60 |
| Parental Satisfaction | 4.54 | 4.51 | 4.57 |
| Broader Social Functioning | 3.88 | 3.86 | 3.90 |
| Broader Social Satisfaction | 3.82 | 3.79 | 3.85 |

Table 9c. Weighted Proportions based on Veterans' National Guard/Reserve Service Component

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 4.11 | 2.72 | 5.50 |
| Workforce Participation: | IN THE WORKFORCE | 95.89 | 94.50 | 97.28 |
| Employment Status: | UNEMPLOYED | 7.84 | 5.89 | 9.78 |
| Employment Status: | EMPLOYED | 92.16 | 90.22 | 94.11 |
| Employment Type: | PART-TIME | 5.32 | 3.62 | 7.03 |
| Employment Type: | FULL-TIME | 94.68 | 92.97 | 96.38 |
| Vocation Status: | NO VOCATION | 3.84 | 2.41 | 5.27 |
| Vocation Status: | PART-TIME VOCATION | 3.57 | 2.25 | 4.88 |
| Vocation Status: | FULL-TIME VOCATION | 92.59 | 90.69 | 94.50 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 81.67 | 78.94 | 84.41 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 7.91 | 6.02 | 9.80 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 10.42 | 8.25 | 12.59 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 62.33 | 58.87 | 65.79 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 25.71 | 22.56 | 28.87 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 11.95 | 9.65 | 14.26 |
| Financial Status: | PROBLEMATIC | 11.84 | 9.48 | 14.21 |
| Financial Status: | AT RISK | 36.59 | 33.14 | 40.03 |
| Financial Status: | SECURE | 51.57 | 48.02 | 55.12 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 17.64 | 14.90 | 20.38 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 82.36 | 79.61 | 85.10 |
| Parental Status: | NOT A PARENT | 37.81 | 34.38 | 41.25 |
| Parental Status: | PARENT | 62.19 | 58.75 | 65.62 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 4.76 | 3.20 | 6.31 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 24.40 | 21.36 | 27.44 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 70.84 | 67.61 | 74.07 |

Table 9d. Weighted Means based on Veterans' National Guard/Reserve Service Component

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.50 | 4.46 | 4.54 |
| Paid Work Satisfaction | 4.05 | 3.99 | 4.11 |
| Unpaid Work Satisfaction | 3.78 | 3.43 | 4.12 |
| School Functioning | 4.26 | 4.14 | 4.38 |
| School Satisfaction | 4.17 | 4.05 | 4.30 |
| Financial Functioning | 4.01 | 3.96 | 4.06 |
| Financial Satisfaction | 3.69 | 3.61 | 3.77 |
| Health Functioning | 4.16 | 4.13 | 4.20 |
| HF – health promotion | 3.73 | 3.66 | 3.79 |
| HF – risk avoidance | 4.77 | 4.74 | 4.80 |
| HF – self-care | 3.94 | 3.89 | 3.99 |
| Health Satisfaction | 3.92 | 3.85 | 3.98 |
| Relationship Functioning | 4.08 | 4.02 | 4.14 |
| Relationship Satisfaction | 4.12 | 4.05 | 4.20 |
| Parental Functioning | 4.67 | 4.62 | 4.72 |
| Parental Satisfaction | 4.61 | 4.55 | 4.66 |
| Broader Social Functioning | 4.06 | 4.01 | 4.11 |
| Broader Social Satisfaction | 4.10 | 4.04 | 4.16 |

Table 10a. Weighted Proportions based on Branch of Active Duty Military Service: Army

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 17.18 | 15.55 | 18.81 |
| Workforce Participation: | IN THE WORKFORCE | 82.82 | 81.19 | 84.45 |
| Employment Status: | UNEMPLOYED | 27.71 | 25.50 | 29.92 |
| Employment Status: | EMPLOYED | 72.29 | 70.08 | 74.50 |
| Employment Type: | PART-TIME | 14.06 | 12.05 | 16.07 |
| Employment Type: | FULL-TIME | 85.94 | 83.93 | 87.95 |
| Vocation Status: | NO VOCATION | 11.47 | 10.06 | 12.88 |
| Vocation Status: | PART-TIME VOCATION | 7.39 | 6.21 | 8.57 |
| Vocation Status: | FULL-TIME VOCATION | 81.14 | 79.40 | 82.88 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 65.21 | 63.09 | 67.32 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 5.65 | 4.65 | 6.66 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 29.14 | 27.11 | 31.17 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 29.07 | 27.02 | 31.11 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 30.93 | 28.91 | 32.94 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 40.00 | 37.85 | 42.16 |
| Financial Status: | PROBLEMATIC | 21.85 | 19.94 | 23.75 |
| Financial Status: | AT RISK | 43.30 | 41.12 | 45.50 |
| Financial Status: | SECURE | 34.85 | 32.80 | 36.90 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 18.77 | 16.93 | 20.60 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 81.23 | 79.39 | 83.07 |
| Parental Status: | NOT A PARENT | 41.69 | 39.47 | 43.90 |
| Parental Status: | PARENT | 58.31 | 56.10 | 60.52 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 11.78 | 10.28 | 13.28 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 32.78 | 30.68 | 34.88 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 55.44 | 53.23 | 57.65 |

Table 10b. Weighted Means based on Branch of Active Duty Military Service: Army

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.42 | 4.38 | 4.46 |
| Paid Work Satisfaction | 3.88 | 3.82 | 3.94 |
| Unpaid Work Satisfaction | 3.56 | 3.44 | 3.68 |
| School Functioning | 4.32 | 4.26 | 4.38 |
| School Satisfaction | 4.24 | 4.18 | 4.31 |
| Financial Functioning | 3.70 | 3.66 | 3.73 |
| Financial Satisfaction | 3.32 | 3.27 | 3.37 |
| Health Functioning | 3.87 | 3.84 | 3.90 |
| HF – health promotion | 3.30 | 3.25 | 3.35 |
| HF – risk avoidance | 4.59 | 4.56 | 4.62 |
| HF – self-care | 3.63 | 3.60 | 3.67 |
| Health Satisfaction | 3.35 | 3.31 | 3.40 |
| Relationship Functioning | 3.81 | 3.76 | 3.85 |
| Relationship Satisfaction | 3.88 | 3.83 | 3.94 |
| Parental Functioning | 4.54 | 4.50 | 4.57 |
| Parental Satisfaction | 4.50 | 4.45 | 4.54 |
| Broader Social Functioning | 3.82 | 3.78 | 3.86 |
| Broader Social Satisfaction | 3.76 | 3.72 | 3.81 |

Table 10c. Weighted Proportions based on Branch of Active Duty Military Service: Navy

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 15.96 | 13.87 | 18.05 |
| Workforce Participation: | IN THE WORKFORCE | 84.04 | 81.95 | 86.12 |
| Employment Status: | UNEMPLOYED | 22.60 | 19.86 | 25.34 |
| Employment Status: | EMPLOYED | 77.40 | 74.66 | 80.14 |
| Employment Type: | PART-TIME | 14.89 | 12.25 | 17.53 |
| Employment Type: | FULL-TIME | 85.11 | 82.47 | 87.75 |
| Vocation Status: | NO VOCATION | 11.20 | 9.24 | 13.16 |
| Vocation Status: | PART-TIME VOCATION | 5.57 | 4.18 | 6.96 |
| Vocation Status: | FULL-TIME VOCATION | 83.23 | 80.94 | 85.52 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 66.97 | 64.23 | 69.71 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 4.74 | 3.60 | 5.87 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 28.29 | 25.64 | 30.94 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 36.02 | 33.17 | 38.86 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 36.39 | 33.61 | 39.18 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 27.59 | 25.00 | 30.17 |
| Financial Status: | PROBLEMATIC | 21.17 | 18.59 | 23.74 |
| Financial Status: | AT RISK | 40.26 | 37.40 | 43.14 |
| Financial Status: | SECURE | 38.57 | 35.80 | 41.34 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 20.72 | 18.23 | 23.22 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 79.28 | 76.78 | 81.77 |
| Parental Status: | NOT A PARENT | 48.30 | 45.36 | 51.23 |
| Parental Status: | PARENT | 51.70 | 48.77 | 54.63 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 8.73 | 7.02 | 10.43 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 33.10 | 30.28 | 35.92 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 58.17 | 55.26 | 61.09 |

Table 10d. Weighted Means based on Branch of Active Duty Military Service: Navy

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.53 | 4.49 | 4.57 |
| Paid Work Satisfaction | 3.89 | 3.82 | 3.96 |
| Unpaid Work Satisfaction | 3.63 | 3.47 | 3.78 |
| School Functioning | 4.40 | 4.33 | 4.48 |
| School Satisfaction | 4.24 | 4.16 | 4.32 |
| Financial Functioning | 3.68 | 3.63 | 3.73 |
| Financial Satisfaction | 3.27 | 3.20 | 3.34 |
| Health Functioning | 3.90 | 3.87 | 3.93 |
| HF – health promotion | 3.25 | 3.19 | 3.31 |
| HF – risk avoidance | 4.63 | 4.59 | 4.66 |
| HF – self-care | 3.71 | 3.67 | 3.76 |
| Health Satisfaction | 3.45 | 3.39 | 3.51 |
| Relationship Functioning | 3.97 | 3.92 | 4.03 |
| Relationship Satisfaction | 4.02 | 3.96 | 4.08 |
| Parental Functioning | 4.59 | 4.54 | 4.64 |
| Parental Satisfaction | 4.56 | 4.50 | 4.61 |
| Broader Social Functioning | 3.88 | 3.83 | 3.93 |
| Broader Social Satisfaction | 3.82 | 3.76 | 3.87 |

Table 10e. Weighted Proportions based on Branch of Active Duty Military Service: Air Force

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 16.30 | 14.14 | 18.46 |
| Workforce Participation: | IN THE WORKFORCE | 83.70 | 81.54 | 85.86 |
| Employment Status: | UNEMPLOYED | 16.67 | 14.24 | 19.09 |
| Employment Status: | EMPLOYED | 83.33 | 80.90 | 85.76 |
| Employment Type: | PART-TIME | 12.60 | 10.31 | 14.88 |
| Employment Type: | FULL-TIME | 87.40 | 85.12 | 89.68 |
| Vocation Status: | NO VOCATION | 7.24 | 5.68 | 8.80 |
| Vocation Status: | PART-TIME VOCATION | 6.60 | 5.22 | 7.98 |
| Vocation Status: | FULL-TIME VOCATION | 86.16 | 84.16 | 88.16 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 72.37 | 69.70 | 75.03 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 4.76 | 3.60 | 5.92 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 22.87 | 20.32 | 25.42 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 39.27 | 36.38 | 42.15 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 35.79 | 33.10 | 38.48 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 24.94 | 22.46 | 27.42 |
| Financial Status: | PROBLEMATIC | 12.04 | 10.00 | 14.07 |
| Financial Status: | AT RISK | 34.12 | 31.34 | 36.89 |
| Financial Status: | SECURE | 53.84 | 50.94 | 56.74 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 15.94 | 13.60 | 18.27 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 84.06 | 81.73 | 86.40 |
| Parental Status: | NOT A PARENT | 39.97 | 37.07 | 42.88 |
| Parental Status: | PARENT | 60.03 | 57.12 | 62.93 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 6.08 | 4.61 | 7.54 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 26.83 | 24.18 | 29.48 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 67.09 | 64.30 | 69.89 |

Table 10f. Weighted Means based on Branch of Active Duty Military Service: Air Force

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.59 | 4.55 | 4.62 |
| Paid Work Satisfaction | 4.06 | 4.00 | 4.12 |
| Unpaid Work Satisfaction | 3.83 | 3.68 | 3.98 |
| School Functioning | 4.58 | 4.51 | 4.65 |
| School Satisfaction | 4.41 | 4.32 | 4.49 |
| Financial Functioning | 3.98 | 3.94 | 4.03 |
| Financial Satisfaction | 3.68 | 3.62 | 3.75 |
| Health Functioning | 4.10 | 4.07 | 4.13 |
| HF – health promotion | 3.52 | 3.47 | 3.58 |
| HF – risk avoidance | 4.75 | 4.72 | 4.78 |
| HF – self-care | 3.93 | 3.89 | 3.98 |
| Health Satisfaction | 3.78 | 3.72 | 3.84 |
| Relationship Functioning | 4.13 | 4.08 | 4.17 |
| Relationship Satisfaction | 4.20 | 4.15 | 4.26 |
| Parental Functioning | 4.69 | 4.65 | 4.73 |
| Parental Satisfaction | 4.62 | 4.56 | 4.68 |
| Broader Social Functioning | 4.07 | 4.03 | 4.12 |
| Broader Social Satisfaction | 4.05 | 4.00 | 4.10 |

Table 10g. Weighted Proportions based on Branch of Active Duty Military Service: Marines

| Status Variables | | % | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|---------------------------------|---|-------|-----------------------|-----------------------|
| Workforce Participation: | OUT OF THE WORKFORCE | 15.50 | 13.33 | 17.68 |
| Workforce Participation: | IN THE WORKFORCE | 84.50 | 82.32 | 86.67 |
| Employment Status: | UNEMPLOYED | 22.63 | 19.80 | 25.46 |
| Employment Status: | EMPLOYED | 77.37 | 74.54 | 80.20 |
| Employment Type: | PART-TIME | 17.11 | 14.13 | 20.08 |
| Employment Type: | FULL-TIME | 82.89 | 79.92 | 85.86 |
| Vocation Status: | NO VOCATION | 7.05 | 5.43 | 8.67 |
| Vocation Status: | PART-TIME VOCATION | 5.97 | 4.38 | 7.56 |
| Vocation Status: | FULL-TIME VOCATION | 86.98 | 84.80 | 89.16 |
| Educational Involvement Status: | NO EDUCATIONAL INVOLVEMENT | 58.30 | 55.26 | 61.34 |
| Educational Involvement Status: | PART-TIME EDUCATIONAL INVOLVEMENT | 4.23 | 3.03 | 5.43 |
| Educational Involvement Status: | FULL-TIME EDUCATIONAL INVOLVEMENT | 37.47 | 34.48 | 40.45 |
| Health Status: | NO CHRONIC HEALTH CONDITIONS | 40.89 | 37.83 | 43.96 |
| Health Status: | CHRONIC PHYSICAL OR MENTAL HEALTH CONDITIONS | 30.01 | 27.18 | 32.83 |
| Health Status: | BOTH CHRONIC PHYSICAL AND MENTAL HEALTH CONDITIONS | 29.10 | 26.38 | 31.82 |
| Financial Status: | PROBLEMATIC | 20.39 | 17.77 | 23.01 |
| Financial Status: | AT RISK | 43.57 | 40.52 | 46.62 |
| Financial Status: | SECURE | 36.04 | 33.11 | 38.96 |
| Intimate Relationship Status: | NOT IN A RELATIONSHIP | 22.35 | 19.62 | 25.08 |
| Intimate Relationship Status: | IN A RELATIONSHIP | 77.65 | 74.92 | 80.38 |
| Parental Status: | NOT A PARENT | 56.29 | 53.28 | 59.30 |
| Parental Status: | PARENT | 43.71 | 40.70 | 46.72 |
| Broader Social Involvement: | NO REGULAR SOCIAL INVOLVEMENT | 9.35 | 7.46 | 11.24 |
| Broader Social Involvement: | INVOLVEMENT WITH EITHER COMMUNITY OR FAMILY/FRIENDS | 36.12 | 33.14 | 39.11 |
| Broader Social Involvement: | INVOLVEMENT WITH BOTH COMMUNITY AND FAMILY/FRIENDS | 54.53 | 51.44 | 57.61 |

Table 10h. Weighted Means based on Branch of Active Duty Military Service: Marines

| Functioning and Satisfaction Variables | М | <i>LL</i> (95% CI) | <i>UL</i> (95% CI) |
|--|------|--------------------|--------------------|
| Work Functioning | 4.48 | 4.43 | 4.53 |
| Paid Work Satisfaction | 3.76 | 3.68 | 3.84 |
| Unpaid Work Satisfaction | 3.80 | 3.63 | 3.98 |
| School Functioning | 4.28 | 4.21 | 4.36 |
| School Satisfaction | 4.11 | 4.03 | 4.19 |
| Financial Functioning | 3.68 | 3.63 | 3.73 |
| Financial Satisfaction | 3.29 | 3.22 | 3.36 |
| Health Functioning | 3.85 | 3.82 | 3.89 |
| HF – health promotion | 3.40 | 3.33 | 3.46 |
| HF – risk avoidance | 4.52 | 4.47 | 4.56 |
| HF – self-care | 3.60 | 3.55 | 3.65 |
| Health Satisfaction | 3.46 | 3.40 | 3.53 |
| Relationship Functioning | 3.92 | 3.86 | 3.98 |
| Relationship Satisfaction | 3.99 | 3.92 | 4.05 |
| Parental Functioning | 4.57 | 4.52 | 4.62 |
| Parental Satisfaction | 4.55 | 4.49 | 4.61 |
| Broader Social Functioning | 3.84 | 3.79 | 3.89 |
| Broader Social Satisfaction | 3.75 | 3.69 | 3.81 |

Summary

The WBI is a psychometrically sound set of measures that can be used to assess life circumstances that serve as the building blocks of well-being. This measurement tool includes measures of status, functioning, and satisfaction within the four key life domains of vocation, finances, health, and social relationships. A multi-phase investigation of the psychometric characteristics of WBI measures among post-9/11 veterans provided evidence for the internal consistency, convergent and discriminant validity, discriminative validity, and sensitivity to change of this set of measures. These measures may be used for research purposes and could have utility for identifying individuals who may need additional support and resources to promote enhanced well-being. The WBI may also prove useful in other populations besides military veterans.

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Appendix A SPSS Syntax for Computing Well-Being Inventory Scores

Vocation Status:

<u>Participation in the labor force defined as working for pay or actively looking for work (LABORFORCE):</u> Scores range from 0-1

*Creating a dichotomous "in the labor force" variable.

RECODE WORK (1=1)(2=1)(0=0) INTO LABORFORCE.

VALUE LABELS LABORFORCE

1 'In labor force'

0 'Not in labor force'.

VARIABLE LABELS LABORFORCE 'Whether or not in the labor force'.

EXECUTE.

Paid employment status defined as working for pay (part or full time) vs. not working for pay among those in the laborforce (EMPLOY): Scores range from 0-1

*Creating an employment status variable with 2 levels (non vs. part or full time status) for only those in the workforce.

RECODE WORK (1=1)(2=0) INTO EMPLOY.

EXECUTE.

VARIABLE LABELS EMPLOY 'Employed or not employed of those in laborforce'.

VALUE LABELS EMPLOY

0 'No paid employment'

1 'Working part-time or full-time'.

EXECUTE.

<u>Fulltime Employment Status defined full- or part-time status among those working for pay (WORKFT):</u> Scores range from 0-1

*Creating a dichotomous employment variable of work full-time vs. not full-time only for those in labor force and working for pay.

IF WORK EQ 1 AND WORKHRS GE 30 WORKFT=1.

IF WORK EQ 1 AND WORKHRS LT 30 WORKFT=0.

EXECUTE.

VALUE LABELS WORKFT

1 'Working full-time'

0 'Not working full-time'.

VARIABLE LABELS WORKFT 'Of those in paid employment, whether or not they are working full-time or not'. EXECUTE.

Educational Involvement (STUDENT STAT): Scores range from 0-2

*Creating a current educational involvement variable.

IF UNPAIDWORK FTStud=1 STUDENT STAT=2.

IF UNPAIDWORK PTStud=1 STUDENT STAT=1.

IF UNPAIDWORK FTStud=0 AND UNPAIDWORK PTStud=0 STUDENT STAT=0.

EXECUTE.

VARIABLE LABELS STUDENT STAT 'Currently a FT, PT, or not a student'.

VALUE LABELS STUDENT STAT

2 'Full time student'

1 'Part time student'

0 'Not a student'.

Execute.

Overall vocation status, which includes time spent in paid work, volunteering, as a homemaker/caregiver, and as a student (VOCATION): Scores range from 0-2

IF WORKHRS GE 30 WORKHRS R=2.

IF WORKHRS LT 30 WORKHRS R=1.

IF WORKHRS EQ 0 WORKHRS R=0.

EXECUTE.

VARIABLE LABELS WORKHRS_R 'USE FOR SCORING ONLY-CATEGORIZING WORK HRS INTO FT, PT, NONE'.

EXECUTE.

IF VOL1 GE 30 VOL1 R=2.

IF VOL1 LT 30 VOL1 R=1.

IF VOL1 EQ 0 VOL1 R=0.

EXECUTE.

VARIABLE LABELS VOL1_R 'USE FOR SCORING ONLY-CATEGORIZING VOL HOURS INTO FT, PT, NONE'.

EXECUTE.

RECODE UNPAIDWORK_FTStud UNPAIDWORK_Homemaker UNPAIDWORK_Over18 UNPAIDWORK_Und18 (1=2)(0=0) INTO UNPAIDWORK FTSTUD R

UNPAIDWORK_HOMEMAKER_R UNPAIDWORK_OVER18_R UNPAIDWORK_UND18_R. EXECUTE.

VARIABLE LABELS UNPAIDWORK_FTSTUD_R 'USE FOR SCORING ONLY-RECODED VARIABLES FOR FULLTIME OR NOT'.

VARIABLE LABELS UNPAIDWORK_HOMEMAKER_R 'USE FOR SCORING ONLY-RECODED VARIABLES FOR FULLTIME OR NOT'.

VARIABLE LABELS UNPAIDWORK_OVER18_R 'USE FOR SCORING ONLY-RECODED VARIABLES FOR FULLTIME OR NOT'.

VARIABLE LABELS UNPAIDWORK_UND18_R 'USE FOR SCORING ONLY-RECODED VARIABLES FOR FULLTIME OR NOT'.

EXECUTE.

^{*}To create an overall vocation score, you will need to first create the following interim variables.

^{*}Interim work variable capturing full-time, part-time, or no work.

^{*}Interim volunteer variable capturing full-time, part-time, or not volunteering.

^{*}Interim Homemaker, Caregiver, and Student variables capturing full-time or not.

*Interim Summing of all types of full- or part-time vocation.

COMPUTE VOC_TOT=SUM(WORKHRS_R, VOL1_R, UNPAIDWORK_FTStud_R, UNPAIDWORK_

HOMEMAKER_R, UNPAIDWORK_OVER18_R,

UNPAIDWORK UND18 R, UNPAIDWORK PTSTUD).

EXECUTE.

VARIABLE LABELS VOC TOT 'USE FOR SCORING ONLY-SUM OF VOCATIONS'.

EXECUTE.

*Final creation of a vocation status variable for full-time (2), part-time (1), and no vocation (0).

IF VOC TOT GE 2 VOCATION=2.

IF VOC TOT EQ 1 VOCATION=1.

IF VOC TOT EQ 0 VOCATION=0.

EXECUTE.

VARIABLE LABELS VOCATION 'Any type of FT or PT vocation'.

VALUE LABELS VOCATION

2 'Full-time vocation'

1 'Part-time vocation'

0 'No vocation'.

EXECUTE.

VOCATION FUNCTIONING & SATISFACTION:

Work

Work Functioning (WORK FUNC AVG): Scores range from 1-5

COMPUTE WORK_FUNC_AVG=MEAN.4(WORK_FUNC1, WORK_FUNC2, WORK_FUNC3, WORK_FUNC4).

VARIABLE LABELS WORK_FUNC_AVG 'Average of functioning within the workplace'.

EXECUTE.

Work satisfaction (WORK_SAT_PAID_AVG; WORK_SAT_UNPAID AVG): Scores range from 1-5 if working for pay and from 1-5 if doing unpaid work

Note: separate scores need to be created for those in paid work and for those in unpaid work.

*Computing Average Score for those who are currently in paid employment.

DO IF WORK EQ 1.

COMPUTE WORK_SAT_PAID_AVG= MEAN.6(WORK_SAT1, WORK_SAT2, WORK_SAT3, WORK_SAT4, WORK_SAT5, WORK_SAT6).

VARIABLE LABELS WORK_SAT_PAID_AVG 'Average of satisfaction within the workplace-those in paid employment'.

END IF.

EXECUTE.

^{*}To create the work satisfaction score for those whose primary vocation is being a volunteer or homemaker, you must first create a sum score of unpaid work.

^{*}Creating a sum score of unpaid work variables endorsed to use as a filter variable when creating a work satisfaction

average score.

COMPUTE TYPEUNPAIDWORK_TOT=SUM(UNPAIDWORK_Und18, UNPAIDWORK_Over18,

UNPAIDWORK_Homemaker, UNPAIDWORK_Vol).

EXECUTE.

VARIABLE LABELS TYPEUNPAIDWORK_TOT 'SUM OF UNPAID WORK EXPERIENCES-TO BE USED FOR SCORING'.

EXECUTE.

*Computing Average Score for those whose primary vocation is being a volunteer or homemaker.

DO IF WORK NE 1 AND TYPEUNPAIDWORK TOT GE 1.

COMPUTE WORK_SAT_UNPAID_AVG= MEAN.4(WORK_SAT1, WORK_SAT2, WORK_SAT3, WORK_SAT4). VARIABLE LABELS WORK_SAT_UNPAID_AVG 'Average of work satisfaction-those whose primary voc is being a volunteer or homemaker'.

END IF

EXECUTE.

Education

Education functioning (EDU FUNC AVG): Scores range from 1-5

*Computing education functioning average.

COMPUTE EDU_FUNC_AVG=MEAN.4(EDU_FUNC1, EDU_FUNC2, EDU_FUNC3, EDU_FUNC4). VARIABLE LABELS EDU_FUNC_AVG 'Average of functioning within school'. EXECUTE.

Education satisfaction (EDU SAT AVG): Scores range from 1-5

*Computing education satisfaction average score.

COMPUTE EDU_SAT_AVG=MEAN.3(EDU_SAT1, EDU_SAT2, EDU_SAT3). VARIABLE LABELS EDU_SAT_AVG 'Average Satisfaction with educational experiences'. EXECUTE.

Financial Status:

<u>Financial status (FIN STAT):</u> Scores range from 0-2

Note: two financial items pertaining to debt and stable housing need to be reverse scored.

*Reverse scoring two financial status items.

RECODE DEBT (0=1)(9=1)(1=0) INTO DEBT R.

RECODE STABLEHOUSE (0=1)(1=0) INTO STABLEHOUSE R.

EXECUTE.

VARIABLE LABELS DEBT R 'Reverse coded debt variable, so that higher is better'.

VALUE LABELS DEBT R

0 'Yes behind on debt'

1 'No not behind on debt or not applicable'.

VARIABLE LABELS STABLEHOUSE R 'Reverse coded housing variable so that higher is better'.

VALUE LABELS STABLEHOUSE R

0 'Yes, concerned about losing housing'

1 'No, not concerned about losing housing'.

EXECUTE.

COMPUTE IMFIN=SUM.3(EXPENSES, DEBT R, STABLEHOUSE R).

COMPUTE FUTFIN = SUM.3(SAVINGS, ALLINSUR, RETIREMENT).

VARIABLE LABELS IMFIN 'Immediate Financial Needs'.

VARIABLE LABELS FUTFIN 'Future Financial Needs'.

EXECUTE.

IF (IMFIN \leq 3) FIN STAT = 0.

IF (IMFIN = 3 AND FUTFIN < 3) FIN STAT = 1.

IF (IMFIN = 3 AND FUTFIN = 3) FIN STAT = 2.

EXECUTE.

VARIABLE LABELS FIN STAT 'Trichotomous financial status using indicators'.

VALUE LABELS FIN STAT

0 'Problematic financial status'

1 'At risk financial status'

2 'Secure financial status'.

EXECUTE.

Financial Functioning & Satisfaction:

Financial Functioning (FIN FUNC AVG): Scores range from 1-5

Note: financial functioning items 4, 5, and 6 need to be reverse scored.

RECODE FIN_FUNC4 FIN_FUNC5 FIN_FUNC6 (1=5)(2=4)(3=3)(4=2)(5=1) INTO FIN_FUNC4R FIN_FUNC5R FIN FUNC6R.

VARIABLE LABELS FIN FUNC4R 'Reverse scored Been late paying a bill'.

VARIABLE LABELS FIN_FUNC5R 'Reverse scored How often had credit card debt that you did not pay off each month'.

VARIABLE LABELS FIN_FUNC6R 'Reverse scored How often spent more than you could afford on clothing, entertainment and other extras'.

VALUE LABELS FIN_FUNC4R FIN_FUNC5R FIN_FUNC6R

- 1 "Most or all of the time"
- 2 "Often"
- 3 "Sometimes"
- 4 "Rarely"
- 5 "Never".

EXECUTE.

COMPUTE FIN_FUNC_AVG= MEAN.8(FIN_FUNC1, FIN_FUNC2, FIN_FUNC3, FIN_FUNC4R, FIN_FUNC5R,

^{*}Creating financial status variable.

^{*}Reverse coding financial functioning items 4, 5, and 6.

^{*}Computing an average score for financial functioning scale.

FIN_FUNC6R, FIN_FUNC7, FIN_FUNC8).
VARIABLE LABELS FIN_FUNC_AVG 'Average of financial functioning'.
EXECUTE.

Financial Satisfaction (FIN SAT AVG): Scores range from 1-5

*Computing financial satisfaction average score.

COMPUTE FIN_SAT_AVG=MEAN.4(FIN_SAT1, FIN_SAT2, FIN_SAT3, FIN_SAT4). VARIABLE LABELS FIN_SAT_AVG 'Average score for satisfaction within the finances domain'. EXECUTE.

Health Status:

Overall health status (HLTH STAT): Scores range from 0-2

*Compute health status based on self-reported health conditions variables.

COMPUTE HLTH_STAT=SUM(HLTHPROB_PHYS, HLTHPROB_MENT). EXECUTE.

*Reverse code so that higher scores indicate better status, as is for all other WBI status indicators, which is important for comparisons.

RECODE HLTH STAT (2=0)(1=1)(0=2).

VARIABLE LABELS HLTH STAT 'Health status'.

VALUE LABELS HLTH STAT

0 'Both a physical and mental health problem'

- 1 'Either a physical or mental health problem, not both'
- 2 'Neither physical nor mental health problem'.

EXECUTE.

Health Functioning & Satisfaction:

Health Functioning (HLTH FUNC AVG): Scores range from 1-5

Note: items 5-8 should be reverse scored

RECODE HLTH_FUNC5 HLTH_FUNC6 HLTH_FUNC7 HLTH_FUNC8 (1=5)(2=4)(3=3)(4=2)(5=1) INTO HLTH_FUNC5R HLTH_FUNC6R

HLTH FUNC7R HLTH FUNC8R.

EXECUTE.

VARIABLE LABELS HLTH_FUNC5R 'Reverse coded health functioning item-sexual intercourse w/o condom/more one partner'.

VARIABLE LABELS HLTH FUNC6R 'Reverse coded health functioning item- tobacco use'.

VARIABLE LABELS HLTH FUNC7R 'Reverse coded health functioning item-alcohol use'.

VARIABLE LABELS HLTH FUNC8R 'Reverse coded health functioning item- drug use'.

VALUE LABELS HLTH FUNC5R HLTH FUNC6R HLTH FUNC7R HLTH FUNC8R

1 'Most or all of the time'

2 'Often'

^{*}Recoding four health functioning items to be reverse scored.

- 3 'Sometimes'
- 4 'Rarely'
- 5 'Never'.

EXECUTE.

COMPUTE HLTH_FUNC_AVG=MEAN.12(HLTH_FUNC1, HLTH_FUNC2, HLTH_FUNC3, HLTH_FUNC4, HLTH_FUNC5R, HLTH_FUNC6R, HLTH_FUNC7R, HLTH_FUNC8R, HLTH_FUNC9, HLTH_FUNC10, HLTH_FUNC11, HLTH_FUNC12).

VARIABLE LABELS HLTH_FUNC_AVG 'Average score of functioning within the health domain'.

EXECUTE.

COMPUTE HLTH FUNC HLTHPROM AVG=MEAN.3(HLTH FUNC1, HLTH FUNC2, HLTH FUNC3).

VARIABLE LABELS HLTH_FUNC_HLTHPROM_AVG 'Average score of functioning within the health promotion subdomain'.

EXECUTE.

COMPUTE HLTH_FUNC_RISKAVOID_AVG=MEAN.4(HLTH_FUNC5R, HLTH_FUNC6R, HLTH_FUNC7R, HLTH_FUNC8R).

VARIABLE LABELS HLTH_FUNC_RISKAVOID_AVG 'Average score of functioning within the risk avoidance subdomain'.

EXECUTE.

COMPUTE HLTH_FUNC_HLTHSELFCARE_AVG=MEAN.5(HLTH_FUNC4, HLTH_FUNC9, HLTH_FUNC10, HLTH_FUNC11, HLTH_FUNC12).

VARIABLE LABELS HLTH_FUNC_HLTHSELFCARE_AVG 'Average score of functioning within the health self-care subdomain'.

EXECUTE.

Health Satisfaction (HLTH SAT AVG): Scores range from 1-5

COMPUTE HLTH_SAT_AVG=MEAN.3(HLTH_SAT1, HLTH_SAT2, HLTH_SAT3). VARIABLE LABELS HLTH_SAT_AVG 'Average of satisfaction with health'. EXECUTE.

Social Relationships:

Intimate Relationships

Intimate Relationship Status (COUPLED STAT; MARITAL STAT): Scores range from 0-1

*Recoding relationship status for those who are married or in a current relationship (regardless of whether the couples live together) vs. those not married or in a relationship.

IF MARRIED=3 OR MARRIED=2 OR ROMRELAT=1 OR ROMRELAT=2 COUPLED STAT=1.

IF ROMRELAT=0 COUPLED STAT=0.

EXECUTE.

VARIABLE LABELS COUPLED STAT 'All individuals in a relationship'.

VALUE LABELS COUPLED STAT

0 'Not in a relationship'

1 'In a relationship'.

^{*}Average health functioning score and three factor scores.

^{*}Computing health satisfaction average score.

EXECUTE.

*Recoding relationship status so those who are married or in a relationship and living together are grouped together vs. all others.

IF MARRIED=3 OR MARRIED=2 OR ROMRELAT=1 MARITAL STAT=1.

IF ROMRELAT=0 OR ROMRELAT=2 MARITAL STAT=0.

VARIABLE LABELS MARITAL STAT 'Individuals married or living together'.

VALUE LABELS MARITAL STAT

0 'Not married or living together'

1 'Married or living together'.

EXECUTE.

<u>Intimate Relationship Functioning (RELAT_FUNC_AVG):</u> Scores range from 1-5

*Computing intimate relationship functioning average score requiring that all items were answered.

COMPUTE RELAT_FUNC_AVG=MEAN.6(RELAT_FUNC1, RELAT_FUNC2, RELAT_FUNC3, RELAT_FUNC4, RELAT_FUNC5, RELAT_FUNC6).

VARIABLE LABELS RELAT_FUNC_AVG 'Average Functioning within romantic relationships'. EXECUTE.

Intimate Relationship Satisfaction (RELAT SAT AVG): Scores range from 1-5

*Computing intimate relationship satisfaction average score requiring that all items were answered.

COMPUTE RELAT_SAT_AVG=MEAN.6(RELAT_SAT1, RELAT_SAT2, RELAT_SAT3, RELAT_SAT4, RELAT_SAT5, RELAT_SAT6).

VARIABLE LABELS RELAT_SAT_AVG 'Average Satisfaction within romantic relationship'. EXECUTE.

Parenting

Parental Status (PAR STAT ANY; PAR STAT UND18; Scores range from 0-1

*Creating dichotomous overall parenting status variable where 1=Is a parent and 0=not a parent.

IF PARENTSTAT EQ 0 PAR STAT ANY EQ 0.

IF PARENTSTAT EQ 1 PAR STAT ANY EQ 1.

VARIABLE LABELS PAR STAT ANY 'Parental status-having children any age'.

VALUE LABELS PAR STAT ANY

0 'Has no children'

1 'Has at least one child'.

EXECUTE.

*Creating dichotomous parenting status variable where 1=Is a parent of children under age 18 and 0=not a parent of children under 18.

IF KIDS UND18 = 0 PAR STAT UND18 EQ 0.

IF KIDS UND18 = 1 PAR STAT UND18 EQ 1.

VARIABLE LABELS PAR STAT UND18 'Parental status-having children under age 18'.

VALUE LABELS PAR STAT UND18

0 'Has no children under age 18'

1 'Has at least one child under age 18'.

EXECUTE.

Parental Functioning (PARENT FUNC AVG): Scores range from 1-5

*Computing parental functioning average score requiring that all items were answered.

COMPUTE PARENT_FUNC_AVG=MEAN.5(PARENT_FUNC1, PARENT_FUNC2, PARENT_FUNC3, PARENT_FUNC4, PARENT_FUNC5).

VARIABLE LABELS PARENT_FUNC_AVG 'Average Functioning as a parent for parents with children younger than 18'.

EXECUTE.

Parenting Satisfaction (PARENT SAT AVG ALL): Scores range from 1-5

*Computing average score for parental satisfaction for entire sample.

COMPUTE PARENT_SAT_AVG_ALL=MEAN.3(PARENT_SAT1, PARENT_SAT2, PARENT_SAT3). VARIABLE LABELS PARENT_SAT_AVG_ALL 'Average Satisfaction with parenting for whole sample'. EXECUTE.

Broad Social Relationships

Broad Social Relationships, which is defined as involvement with community, extended family, and/or friends (BROADSOCINV): Scores range from 0-2

Note: Before computing the broad social involvement score, you need to first create sum scores and dichotomous scores for the friends/family and community status.

*Computing overall sum score for social relationship status.

COMPUTE SOC_ACT_TOT=SUM(SOC_ACT1, SOC_ACT2, SOC_ACT3, SOC_ACT4, SOC_ACT5, SOC_ACT6, SOC_ACT7).

VARIABLE LABELS SOC_ACT_TOT 'Sum of involvement with community, friends and relatives'. EXECUTE.

*Computing subscale sum score for involvement in community activities.

COMPUTE SOC_ACT_COMM_TOT=SUM(SOC_ACT1, SOC_ACT2, SOC_ACT3, SOC_ACT4, SOC_ACT5). VARIABLE LABELS SOC_ACT_COMM_TOT 'Sum of involvement within community'. EXECUTE.

*Computing a dichotomous community involvement score.

IF SOC ACT COMM TOT GE 1 SOC ACT COMM DI EQ 1.

IF SOC ACT COMM TOT EQ 0 SOC ACT COMM DI EQ 0.

VARIABLE LABELS SOC ACT COMM DI 'Involvement in any community activities'.

VALUE LABELS SOC ACT COMM DI

0 'Not involved in community'

1 'Is involved in community'.

EXECUTE.

*Computing subscale sum score for having friends and relatives in one's life.

COMPUTE SOC ACT FF TOT=SUM(SOC ACT6, SOC ACT7).

VARIABLE LABELS SOC_ACT_FF_TOT 'Sum indicating degree of involvement with friends and family'. EXECUTE.

*Computing a dichotomous friend/family involvement score.

IF SOC ACT FF TOT GE 1 SOC ACT FF DI EQ 1.

IF SOC ACT FF TOT EQ 0 SOC ACT FF DI EQ 0.

VARIABLE LABELS SOC ACT FF DI 'Involvement in any friend/family relationships'.

VALUE LABELS SOC ACT FF DI

0 'Not involved in friend/family relationships'

1 'Is involved in friend/family relationships'.

EXECUTE.

*Computing a trichotomous broad social involvement score.

IF SOC ACT FF DI EQ 1 AND SOC ACT COMM DI EQ 1 BROADSOCINV=2.

IF SOC ACT FF DI EQ 1 AND SOC ACT COMM DI EQ 0 BROADSOCINV=1.

 $IF\ SOC_ACT_FF_DI\ EQ\ 0\ AND\ SOC_ACT_COMM_DI\ EQ\ 1\ BROADSOCINV=1.$

IF SOC ACT FF DI EQ 0 AND SOC ACT COMM DI EQ 0 BROADSOCINV=0.

VARIABLE LABELS BROADSOCINV 'Broad Social Involvement'.

VALUE LABELS BROADSOCINV

0 'Not involved in community or with friend/family relationships'

1 'Is involved in either community or friend/family relationships'

2 'Is involved in both community and friend/family relationships'.

EXECUTE.

Social functioning (SOC FUNC AVG): Scores range from 1-5

*Computing overall social functioning subscale score requiring that all items were answered.

COMPUTE SOC_FUNC_AVG=MEAN.9(SOC_FUNC1, SOC_FUNC2, SOC_FUNC3, SOC_FUNC4, SOC_FUNC5, SOC_FUNC6, SOC_FUNC7,

SOC FUNC8, SOC FUNC9).

VARIABLE LABELS SOC_FUNC_AVG 'Average of entire social relationship functioning scale'. EXECUTE.

Satisfaction with social involvement (SOC SAT AVG): Scores range from 1-5

*Computing average score for overall satisfaction within interpersonal relationships requiring that all items were answered.

COMPUTE SOC SAT AVG=MEAN.4 (SOC SAT1, SOC SAT2, SOC SAT3, SOC SAT4).

VARIABLE LABELS SOC_SAT_AVG 'Average of overall satisfaction within interpersonal relationships in communities and with friends and relatives'.

EXECUTE.

Appendix B Scoring Guidelines for Composite Measures of Functioning and Satisfaction

We have developed the following scoring guidelines for researchers who wish to create composite measures of functioning and satisfaction across life domains. Please note that this scoring has not yet been validated and thus, should be considered "under development" at this point. Future research is needed to validate this scoring system.

Functioning: Scores range from 1-5

In order to calculate a composite functioning score across relevant domains, convert average item scores for all functioning scales into z scores. hen sum the z scores and divide by the number of relevant domains to create an average z score. Although there is no absolute metric for evaluating overall functioning scores, relative comparisons across participants may be made based on these average z scores.

Satisfaction: Scores range from 1-5

In order to calculate a composite satisfaction score across relevant domains, convert average item scores for all functioning scales into z scores. hen sum the z scores and divide by the number of relevant domains to create an average z score. Although there is no absolute metric for evaluating overall functioning scores, relative comparisons across participants may be made based on these average z scores.