

# WHOLISTIC HEALTH ASSESSMENT



This manual provides information on the development and scoring of the Wholistic Health Assessment ©.



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## **OVERVIEW**

The Wholistic Health Assessment © Version 2 was designed by Sheena Crawford to accompany the Wholistic Health Program ©, although the assessment can be used with any program or alone. It assesses: Trauma, Coping Mechanisms, Mental Health, Physical Health, Spiritual Health (optional), and Outlook on Life as well as demographic questions to capture a wholistic picture of an individuals health and quality of life. It is designed for the general population; adults 18 years of age and older, with acceptable administration beginning at 13 years of age. This assessment is free to download, use, and distribute for individuals and healthcare facilities. Although manual administration via paper is effective, it is designed to be completed electronically.

### **Frequency of Administering**

This assessment is administered at any point to determine individual scores. When the assessment is used to assess progress in a program (e.g. Wholistic Health Program), it is administered within 24 hours before beginning the program (pre score) and within 24 hours after completing the program (post score). It can be administered in the middle of the program at the administrator's discretion.

### **Pre vs. Post Scores**

To determine level of improvement, the post score (e.g. 6) is subtracted from the pre score (e.g. 10) for the difference (e.g. 4). A decline in score (or positive number once subtracted) of at least two (2) is an improvement. An increase in score (or negative number once subtracted) of at least negative two (-2) is deterioration. A decline or increase in score of one, zero, or negative one (1, 0, or -1) is considered no change, as the decline or increase is insignificant.

### **Changes to Assessment**

This assessment is copyright protected, tested for reliability and validity, and should not be altered as changes can reduce the integrity of outcomes. Please submit any suggested changes to [research@outcomesexcellence.org](mailto:research@outcomesexcellence.org) for consideration. If changes are approved, you will be notified in writing and the assessment will be updated and published as a new version. This assessment is continuously evaluated for improvement and updates in vernacular.

### **Evidence**

This assessment is based on a formative model and was vigorously tested alongside the Wholistic Health Program ©. The Wholistic Health Program and research article (Crawford, 2023) details the literature, research, data, pilots, theories, therapies, techniques, and conceptual framework that was utilized to develop the program and assessment.



## QUESTIONS

### Trauma Questions

Do you consider yourself to have experienced any of the following? Select all that apply: \*Required

- Frequently Called Hurtful Names and Cussed at By Parent, Guardian, or Lover (e.g. mental abuse)
- Not Provided Attention, Support, or Nurturing Consistently By Parent or Guardian (e.g. emotional abuse)
- Punched, Smacked, Pushed, Tripped, etc. By a Parent, Guardian, or Lover (e.g. physical abuse)
- Not Provided Food or Clothing Consistently By a Parent or Guardian (e.g. neglect)
- Involved in Unwanted or Forced Sexual Activity (e.g. rape)
- Adult Responsibilities as a Child Consistently (e.g. paying bills)
- Witnessed Violence Consistently at Home
- Witnessed Substance Abuse Consistently at Home
- Witnessed Mental Illness Consistently at Home
- Witnessed Parent(s) Separation/Divorce
- Witnessed Parent(s) Incarcerated
- Experienced Homelessness or Moving Consistently (e.g. shelter, street, foster care)
- Experienced a Loss of Limb(s), Major Bodily Functions, or Extreme Sickness (e.g. cancer)
- Experienced a Significant Natural Disaster (e.g. loss of home/family)
- Directly Affected by Terrorism, Community, or School Violence (e.g. gangs, racism)
- Indirectly Affected by Terrorism, Community, or School Violence (e.g. school shooting)
- Absent, Inactive, or Death of a Close Loved One (e.g. parental figure or child)

For any experiences you chose above, do you consider them to be traumatic? (Trauma is defined as "an event, or series of events, that causes or caused moderate to severe stress reactions")

- Yes
- No
- N/A (I didn't experience any of the above)

Which statements are true regarding the response to your traumatic experience(s)? Select all that apply:

- I talked to a professional or counselor about my childhood trauma
- I talked to my family and/or friends about my childhood trauma
- I talked to God about my childhood trauma
- I didn't talk to anyone about my childhood trauma



## Coping Mechanisms

| Coping Questions - Within the last four weeks, approximately how often did you use the following coping mechanisms to deal with unpleasant experiences? | 5+x<br>Week              | 3-4x<br>Week             | 1-2x<br>Week             | 1-2x<br>Month            | N/A<br>Rare              |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Substance Use</b>  |                          |                          |                          |                          |                          |
| 1 - Alcohol   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 - Drugs   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 - Overeating  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 - Tobacco/Smoking   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Entertainment</b>  |                          |                          |                          |                          |                          |
| 5 - Excessive Gaming  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 - Excessive Shopping  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 - Gambling  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Sexual</b>   |                          |                          |                          |                          |                          |
| 8 - Casual Sex  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 - Pornography   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Relational</b>   |                          |                          |                          |                          |                          |
| 10 - Blaming (Self or Others)   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 - Seeking Acceptance   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12 - Disengagement/Detachment/Self Isolation  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Creative</b>   |                          |                          |                          |                          |                          |
| 13 - Drawing/Painting/Art   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 - Music  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 - Poetry/Poetical Lyrics   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 - Reading  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Dialogue</b>   |                          |                          |                          |                          |                          |
| 17 - Group Discussion   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18 - Individual Counseling  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 - Talking/Venting  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20 - Writing/Journaling   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Active</b>   |                          |                          |                          |                          |                          |
| 21 - Sensory/Fidgets  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 22 - Dancing  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 23 - Exercising   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 24 - Walking  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Thought</b>  |                          |                          |                          |                          |                          |



|   |                          |                          |                          |                          |                          |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 25 - Change Something for Different Results         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 26 - Analyze the Situation for Better Understanding | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 27 - Daydream or Imagine a Better Situation         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 28 - Focus on the Positives                         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Mental Health Questions

Do you have any mental health diagnoses? Select all that apply: \*Required

- Post-Traumatic Stress Disorder Diagnosis
- Depression Diagnosis
- Substance Use Disorder Diagnosis
- Other Serious Mental Health Diagnosis

| Mental Health Questions - Within the last four weeks, how often did you experience: | 5+x<br>Week              | 3-4x<br>Week             | 1-2x<br>Week             | 1-2x<br>Month            | N/A<br>Rare              |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Sleeplessness   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Alcohol Use   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Anxiety   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Depression  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Drug Use  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Grief   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Guilt   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Irritability  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Stress  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Regret  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Suicidal Thoughts   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Uncertainty   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Worry   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Physical Health Questions

Do you have any physical health diagnoses? Select all that apply: \*Required

- Pregnancy/Fertility Issues
- Curable STD/STI Diagnosis
- Incurable STD Diagnosis
- Cancer Diagnosis
- Diabetes Diagnosis
- High Blood Pressure Diagnosis
- Heart Disease Diagnosis
- Irritable Bowel Issues
- Severe Vitamin A Deficiency
- Severe Vitamin B Deficiency



- Severe Vitamin C Deficiency
- Severe Vitamin D Deficiency
- Severe Vitamin E Deficiency

- Severe Vitamin K Deficiency
- Autoimmune Disease Diagnosis
- Other Serious Physical Health Diagnosis

| Nutrition Questions - Within the last four weeks, how often did you consume: | 5+x<br>Week              | 3-4x<br>Week             | 1-2x<br>Week             | 1-2x<br>Month            | N/A<br>Rare              |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Vegetables and/or fruit?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Beans and/or lentils?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Grains and/or breads?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Dairy?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Meat?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fish/seafood?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sweets/desserts?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Physical Activity Question - Within the last four weeks, how often were you: | 5+x<br>Week              | 3-4x<br>Week             | 1-2x<br>Week             | 1-2x<br>Month            | N/A or<br>Rare           |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Physically active?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Spiritual Health Questions

Spiritual health is defined as “a person’s faith and relationship with a higher power in finding meaning and connection with self and all creation”.

| Spiritual Health Impact Questions - How much do you agree with the following statements? | Strongly<br>Agree        | Agree                    | Neither                  | Disagree                 | Strongly<br>Disagree     |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Spirituality helps me define my goals.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Spirituality is integrated into my whole life.   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Spiritual Health Activity Questions - Within the last four weeks, how often did you: | 5+x<br>Week              | 3-4x<br>Week             | 1-2x<br>Week             | 1-2x<br>Month            | N/A or<br>Rare           |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Pray?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Communicate with like-minded individuals?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Read religious text?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Consciously try to align your life with religious texts?                             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Participate in formal religious gatherings?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |





## Outlook On Life Questions

| Outlook Questions - Within the last four weeks, how often did you feel: | 5+x Week                 | 3-4x Week                | 1-2x Week                | 1-2x Month               | N/A Rare                 |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Hope for the future and sense of purpose?                               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Peace of mind?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Willingness to learn and be corrected?                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Joy even in trying times?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Stable (e.g. housing, finances, etc.)?                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Safe and secure?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Kindness toward others?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Like you were able to forgive yourself and others?                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Patience with yourself and others?                                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Supported in your relationships?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Like you were able to maintain healthy boundaries?                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Negative emotions (e.g. frustration, irritability)?                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Positive emotions (e.g. appreciation, confidence)?                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Control over your emotions?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Emotional Communication Question - Within the last four weeks: | 0-5                      | 6-9                      | 10-19                    | 20-29                    | 30+                      |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Approximately how many emotions did you communicate regularly? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

## Social Determinant of Health Questions

Current Age

- 9-12     13-16     17-19     20-29     30-39     40-49  
 50-59     60-69     70-79     80-89     90-99     100+

I Identify As:

- Black     Brown     White     I Choose Not to Respond

What is your primary nationality/geographic region? \*Select one (Nationality/geographic region is defined as place of birth or primary citizenship).

- Africa                       Australia                       Europe  
 Asia                           Canada                           Middle East



- Russia
- South America

- United States
- I Don't Know

- Other

What is your primary ethnicity? \*Select one (Ethnicity is defined as cultural identity. This list includes larger populated ethnicities from each region and is not an exhaustive list. If you believe an ethnicity should be listed that isn't or if an ethnicity that's listed isn't applicable to you, please select "other" and state the ethnicity.)

- Alaskan
- Algerian
- American
- Apache
- Argentinian
- Barbadian
- Brazilian
- Cambodian
- Canadian
- Caribbean
- Chamorros
- Cherokee
- Chinese
- Choctaw
- Columbian
- Cuban
- Dominican
- Dutch
- Ecuadorian
- Egyptian
- English
- Ethiopian
- Fijians
- Filipino
- French

- German
- Ghanaian
- Guatemalan
- Haitian
- Hawaiian
- Indian
- Iranian
- Iraqi
- Irish
- Israeli
- Italian
- Jamaican
- Japanese
- Kanaka Maoli
- Korean
- Kurdish
- Lebanese
- Lumbee
- Mexican
- Moroccan
- Native
- Navajo
- Nigerian
- Norwegian
- Ojibwe

- Polish
- Pueblo Sioux
- Puerto Rican
- Rapanui
- Russian
- Salvadoran
- Samoan
- Somalian
- South African
- Spaniard
- Sun'aq
- Syrian
- Tahitians
- Taiwanese
- Tibetan
- Tokelau
- Tongan
- Vietnamese
- I Don't Know
- Other
- Mixed (Defined as one parent from one primary ethnicity and another parent from a different primary ethnicity).

State:

Zip Code:

Current Marital Status

- Single
- Married
- Divorced
- Widowed



Military Status

Active     Discharged     Veteran     Not Applicable

I Identify As:

A male born as male     A female born as female  
 A male born as female     A female born as male     Other (please specify)

Education

No Diploma     HS Diploma     Vocational     Bachelors     Masters     Doctorate

Job Status

Employed     Unemployed     Self Employed

Income

\$0-\$20K     \$21K-\$40K     \$41K-\$70K     \$71K-100K     \$101K +

Housing Status

Rent/Own     Homeless     Friend     Family     Shelter     Prison/Jail     Other

What type of home did you grow up in?

2 Guardians/Parents     1 Guardian/Parent     Foster Care     Varied/Unstable     Other

Which religion provides you with strength and hope?

Buddhism     Christianity     Hinduism     Islam     Judaism     None or N/A

Christianity:     Baptist     Jehovah's Witness     Latter Day Saints     Lutheran      
Messianic Judaism     Methodist     Non-Denominational     Presbyterian     Roman  
Catholic     Seventh Day Adventist     Other:

**Identifying Questions**

Client ID:

First Name:

Date of Birth:

Social Security Number:

Last Name:

Date of Completion:

Is it okay to follow up with encouraging emails? Client's Email Address:



## SCORING

### Scoring the Trauma Domain

| Trauma Experience Question                     |      |  |  |  |  |
|--|------|--|--|--|--|
| 1 point for each traumatic experience selected |      |  |  |  |  |
| Score  | 0-17 |  |  |  |  |

| Trauma Belief Question | Yes    | No | N/A |  |  |
|------------------------|--------|----|-----|--|--|
| Trauma Belief          | 1      | 0  | 0   |  |  |
| Score                  | 0 or 1 |    |     |  |  |

| Trauma Response Question | Profession-<br>al | Family/<br>Friend | God  | No-one |  |
|--------------------------|-------------------|-------------------|------|--------|--|
| Response to Trauma       | 0.01              | 0.01              | 0.01 | 4      |  |
| Score                    | 0 or 4            |                   |      |        |  |

|                     |      |  |       |     |        |
|---------------------|------|--|-------|-----|--------|
| Trauma Domain Score | 0-21 |  | 0-1   | 2-4 | 5-21   |
|                     |      |  | Ideal |     | Subpar |

### Scoring the Coping Mechanism Domain

| Coping Mechanism Question | 5+x<br>Week | 3-4x<br>Week | 1-2x<br>Week | 1-2x<br>Month | N/A<br>Rare |
|---------------------------|-------------|--------------|--------------|---------------|-------------|
| <b>Substance Use</b>      |             |              |              |               |             |
| 1 - Alcohol               | 4           | 3            | 2            | 1             | 0           |
| 2 - Drugs                 | 4           | 3            | 2            | 1             | 0           |
| 3 - Overeating            | 4           | 3            | 2            | 1             | 0           |
| 4 - Tobacco/Smoking       | 4           | 3            | 2            | 1             | 0           |
| <b>Entertainment</b>      |             |              |              |               |             |
| 5 - Excessive Gaming      | 4           | 3            | 2            | 1             | 0           |
| 6 - Excessive Shopping    | 4           | 3            | 2            | 1             | 0           |
| 7 - Gambling              | 4           | 3            | 2            | 1             | 0           |
| <b>Sexual</b>             |             |              |              |               |             |
| 8 - Casual Sex            | 4           | 3            | 2            | 1             | 0           |



|   |      |      |      |      |      |
|---|------|------|------|------|------|
| 9 - Pornography                                     | 4    | 3    | 2    | 1    | 0    |
| <b>Relational</b>                                   |      |      |      |      |      |
| 10 - Blaming (Self or Others)                       | 4    | 3    | 2    | 1    | 0    |
| 11 - Seeking Acceptance                             | 4    | 3    | 2    | 1    | 0    |
| 12 - Disengagement/Detachment/Self Isolation        | 4    | 3    | 2    | 1    | 0    |
| <b>Creative</b>                                     |      |      |      |      |      |
| 13 - Drawing/Painting/Art                           | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 14 - Music  | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 15 - Poetry/Poetical Lyrics                         | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 16 - Reading  | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| <b>Dialogue</b>                                     |      |      |      |      |      |
| 17 - Group Discussion                               | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 18 - Individual Counseling                          | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 19 - Talking/Venting                                | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 20 - Writing/Journaling                             | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| <b>Active</b>                                       |      |      |      |      |      |
| 21 - Sensory/Fidgets                                | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 22 - Dancing  | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 23 - Exercising                                     | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 24 - Walking  | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| <b>Thought</b>                                      |      |      |      |      |      |
| 25 - Change Something for Different Results         | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 26 - Analyze the Situation for Better Understanding | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 27 - Daydream or Imagine a Better Situation         | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| 28 - Focus on the Positives                         | 0    | 0.01 | 0.02 | 0.03 | 0.04 |
| Score   | 0-48 |      |      |      |      |

|                     |      |       |        |      |
|---------------------|------|-------|--------|------|
| Coping Domain Score | 0-48 | 0-1   | 2-3    | 4-48 |
|                     |      | Ideal | Subpar |      |

### Scoring the Mental Health Domain

|                                  |        |  |  |  |  |
|----------------------------------|--------|--|--|--|--|
| <b>Mental Diagnosis Question</b> |        |  |  |  |  |
| Mental Diagnosis selection       |        |  |  |  |  |
| Score                            | 0 or 2 |  |  |  |  |

\*If any diagnoses are chosen then the score is 2. If no diagnoses are chosen then the score is 0.



| Mental Health Questions         | 5+x Week | 3-4x Week | 1-2x Week | 1-2x Month | N/A Rare |
|---------------------------------|----------|-----------|-----------|------------|----------|
| Sleeplessness                   | 4        | 3         | 2         | 1          | 0        |
| Alcohol Use                     | 4        | 3         | 2         | 1          | 0        |
| Anxiety                         | 4        | 3         | 2         | 1          | 0        |
| Depression                      | 4        | 3         | 2         | 1          | 0        |
| Drug Use (including prescribed) | 4        | 3         | 2         | 1          | 0        |
| Grief                           | 4        | 3         | 2         | 1          | 0        |
| Guilt                           | 4        | 3         | 2         | 1          | 0        |
| Irritability                    | 4        | 3         | 2         | 1          | 0        |
| Stress                          | 4        | 3         | 2         | 1          | 0        |
| Regret                          | 4        | 3         | 2         | 1          | 0        |
| Suicidal Thoughts               | 4        | 3         | 2         | 1          | 0        |
| Uncertainty                     | 4        | 3         | 2         | 1          | 0        |
| Worry                           | 4        | 3         | 2         | 1          | 0        |
| Score                           | 0-52     |           |           |            |          |

|                            |      |       |       |        |
|----------------------------|------|-------|-------|--------|
| Mental Health Domain Score | 0-54 | 0-13  | 14-26 | 27-54  |
|                            |      | Ideal |       | Subpar |

### Scoring the Physical Health Domain

| Physical Diagnosis Question  |        |  |  |  |  |
|------------------------------|--------|--|--|--|--|
| Physical Diagnosis selection |        |  |  |  |  |
| Score                        | 0 or 2 |  |  |  |  |

\*If any diagnoses are chosen then the score is 2. If no diagnoses are chosen then the score is 0.

| Nutrition Questions      | 5+x Week | 3-4x Week | 1-2x Week | 1-2x Month | N/A Rare |
|--------------------------|----------|-----------|-----------|------------|----------|
| Vegetables and/or fruit? | 0        | 1         | 2         | 3          | 4        |
| Beans and/or lentils?    | 0        | 1         | 2         | 3          | 4        |
| Grains and/or breads?    | 0        | 0.01      | 0.02      | 0.03       | 0.04     |
| Dairy?                   | 0        | 0.01      | 0.02      | 0.03       | 0.04     |
| Meat?                    | 4        | 0.01      | 0.02      | 0.03       | 0.04     |
| Fish/seafood?            | 4        | 0.01      | 0.02      | 0.03       | 0.04     |



|                  |      |   |   |   |   |
|------------------|------|---|---|---|---|
| Sweets/desserts? | 4    | 3 | 2 | 1 | 0 |
| Water?           | 0    | 1 | 2 | 3 | 4 |
| Score            | 0-24 |   |   |   |   |

| Physical Activity Question           | 5+x Week | 3-4x Week | 1-2x Week | 1-2x Month | N/A or Rare |
|--------------------------------------|----------|-----------|-----------|------------|-------------|
| How often are you physically active? | 0        | 1         | 2         | 3          | 4           |
| Score                                | 0-4      |           |           |            |             |

|                              |      |  |              |             |               |
|------------------------------|------|--|--------------|-------------|---------------|
| Physical Health Domain Score | 0-30 |  | <b>0-5</b>   | <b>6-10</b> | <b>11-30</b>  |
|                              |      |  | <b>Ideal</b> |             | <b>Subpar</b> |

### Scoring the Spiritual Health Domain

| Spiritual Health Impact Questions              | Strongly Agree | Agree | Neither | Disagree | Strongly Disagree |
|--|----------------|-------|---------|----------|-------------------|
| Spirituality helps me define my goals.         | 0              | 1     | 2       | 3        | 4                 |
| Spirituality is integrated into my whole life. | 0              | 1     | 2       | 3        | 4                 |
| Score  | 0-8            |       |         |          |                   |

| Spiritual Health Activity Question  | 5+x Week | 3-4x Week | 1-2x Week | 1-2x Month | N/A or Rare |
|---|----------|-----------|-----------|------------|-------------|
| How often do you pray?  | 0        | 1         | 2         | 3          | 4           |
| Communicate with like-minded individuals?                                 | 0        | 1         | 2         | 3          | 4           |
| How often do you read religious text?                                     | 0        | 1         | 2         | 3          | 4           |
| How often do you consciously try to align your life with religious texts? | 0        | 1         | 2         | 3          | 4           |
| How often do you participate in formal religious gatherings?              | 0        | 1         | 2         | 3          | 4           |
| Score   | 0-20     |           |           |            |             |

\*If the spiritual health domain is skipped, no score or explanation of scores should be provided. This domain should be omitted from results which does not impact overall score.

|                               |      |  |              |             |               |
|-------------------------------|------|--|--------------|-------------|---------------|
| Spiritual Health Domain Score | 0-28 |  | <b>0-7</b>   | <b>8-14</b> | <b>15-28</b>  |
|                               |      |  | <b>Ideal</b> |             | <b>Subpar</b> |



## Scoring the Outlook on Life Domain

| Outlook on Life Questions                           | 5+x<br>Week | 3-4x<br>Week | 1-2x<br>Week | 1-2x<br>Month | N/A or<br>Rare |
|---|-------------|--------------|--------------|---------------|----------------|
| Hope for the future and sense of purpose?           | 0           | 1            | 2            | 3             | 4              |
| Peace of mind?                                      | 0           | 1            | 2            | 3             | 4              |
| Willingness to learn and be corrected?              | 0           | 1            | 2            | 3             | 4              |
| Joy even in trying times?                           | 0           | 1            | 2            | 3             | 4              |
| Stable (e.g. housing, finances, etc.)?              | 0           | 1            | 2            | 3             | 4              |
| Safe and secure?                                    | 0           | 1            | 2            | 3             | 4              |
| Kindness toward others?                             | 0           | 1            | 2            | 3             | 4              |
| Like you were able to forgive yourself and others?  | 0           | 1            | 2            | 3             | 4              |
| Patience with yourself and others?                  | 0           | 1            | 2            | 3             | 4              |
| Supported in your relationships?                    | 0           | 1            | 2            | 3             | 4              |
| Like you were able to maintain healthy boundaries?  | 0           | 1            | 2            | 3             | 4              |
| Negative emotions (e.g. frustration, irritability)? | 4           | 3            | 2            | 1             | 0              |
| Positive emotions (e.g. appreciation, confidence)?  | 0           | 1            | 2            | 3             | 4              |
| Control over your emotions?                         | 0           | 1            | 2            | 3             | 4              |
| Score   | 0-56        |              |              |               |                |

| Emotional Communication Question                                 | 0-5 | 6-9 | 10-19 | 20-29 | 30+ |
|--|-----|-----|-------|-------|-----|
| Approximately how many emotions do you communicate consistently? | 4   | 3   | 2     | 1     | 0   |
| Score  | 0-4 |     |       |       |     |

|                              |      |  |       |       |        |
|------------------------------|------|--|-------|-------|--------|
| Outlook on Life Domain Score | 0-60 |  | 0-15  | 16-30 | 31-60  |
|                              |      |  | Ideal |       | Subpar |

## Scoring (Overall)

|             |       |  |       |       |        |
|-------------|-------|--|-------|-------|--------|
| Total Score | 0-241 |  | 0-42  | 43-87 | 88-241 |
|             |       |  | Ideal |       | Subpar |





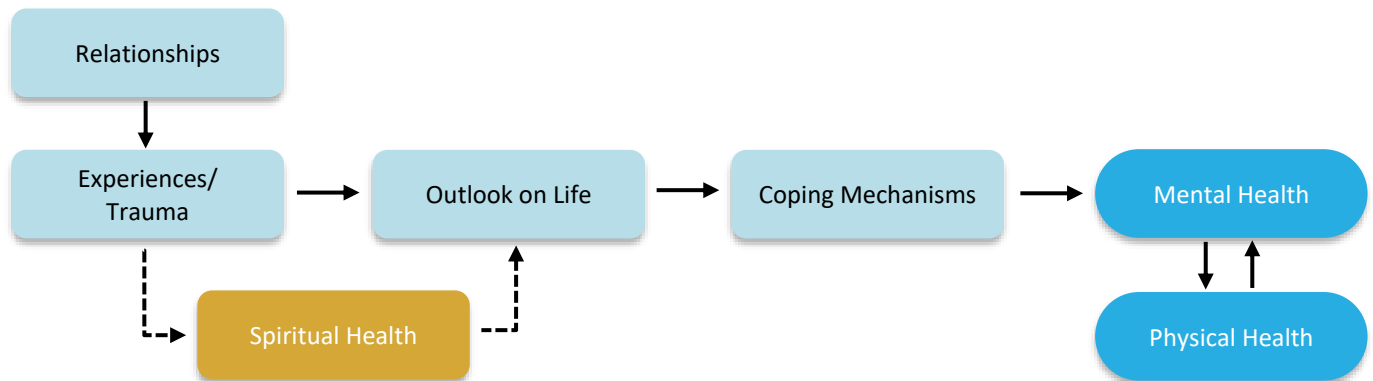
## **Missing Items**

When the assessment is administered electronically, it is recommended that all items be required by the system to ensure accurate scores (with the exception of demographic and spiritual health questions which are at the discretion of the administrator and individual). Not completing all items in the five domains can give a lower score and therefore an ideal score, which may not be accurate. If the assessment is administered manually via paper or if all items are not required by the system, individuals should be notified that skipping questions can impact the accuracy of their scores, prior to starting the assessment. Individuals that choose not to complete the spiritual health domain do not have an impact on their overall score.



## CONCEPTUAL FRAMEWORK

The conceptual framework is derived from extent literature discussed in further detail in the Wholistic Health Program ©. The framework shows that traumatic experiences occur from or with our relationships, and these experiences shape our outlook on life. Outlook on life influences coping mechanisms which impact physical and mental health. Spiritual health can influence outlook on life, potentially avoiding coping behaviors that negatively impact physical and mental health outcomes.



### Construct Definitions

- Wholistic: Characterized by the belief that the parts of something are interconnected and can be explained only by reference to the whole.
- Relationship: A continual association between two or more people.
- Trauma: An event, or series of events, that causes or caused moderate to severe stress reactions.
- Coping Mechanism: Actions that people use to deal with the internal and/or external demands of stressful encounters.
- Mental Health: The capacity to feel, think, and act in ways that enable people to value and engage in life.
- Physical Health: The well-being of the physical body and proper functioning of the human organism.
- Spiritual Health: A person's faith and relationship with a higher power in finding meaning and connection with self and all creation.
- Outlook on Life: The extent to which people feel that life is meaningful, manageable, and comprehensible.



## **RELIABILITY AND VALIDITY**

Hall and Powell (2021) state that there is a need to invest in the development of spiritual care outcome instruments across varying settings, demographics, and diagnostic groups. Previous studies needed to utilize several different instruments to conduct research, such as Akbari and Hossaini (2018) which used five instruments, Chen et al. (2022) which used three, Božek et al. (2020) which combined three instruments for a total of 86 questions for four variables, and Felitti et al. (1998) which utilized seven instruments to develop the original Adverse Childhood Experiences (ACEs) survey.

For these reasons, the Wholistic Health Assessment © was developed. TR questions were developed utilizing the Centers for Disease Control and Kaiser Permanente ACE questionnaire (n.d.) which has a cronbach alpha of 0.78 (Ford et al., 2014); MH, PH, and OL questions were developed utilizing the World Health Organization Quality of Life survey (n.d.) which has a cronbach alpha ranging from 0.71 to 0.86 and the Agency for Healthcare Research and Quality (AHRQ, 2019) Medical Expenditure Panel Survey (MEPS) which has a cronbach alpha of 0.80 (Cheak-Zamora et al., 2009); SH questions were developed utilizing a Spiritual Health questionnaire which has a cronbach alpha of 0.94 (Parsian and Dunning, 2009); and CM questions were developed utilizing the Ways of Coping questionnaire (Folkman and Lazarus, 1985) which has a cronbach alpha of 0.88. Each domain also includes author developed questions and standardized scales for uniformity and consistency.

### **Cronbach Alpha Scores**

Due to the combination and removal of questions from multiple instruments and restructured scales the reliability and validity of the original instruments can decrease. Therefore, the Wholistic Health Program was piloted in conjunction with the Wholistic Health Assessment to ensure effectiveness and statistical soundness. Participants included the general population and varying clinical professionals who provided feedback regarding the relevancy, flow, options, scoring, and word choices of questions. Once the final draft of the assessment was complete, data was collected to determine alpha scores which were as follows: TR - 81%; SH - 88%; CM - 72%; OL - 86%; MH - 89%; PH - 70%; and the full instrument was 89%.

\*Only assessment questions that use the same scale (Likert) *and* contribute to the domain score are included in the analysis of Cronbach alpha (e.g. positive coping questions do NOT contribute to the coping domain score and therefore is not included in Cronbach alpha analysis).



## COSMIN STUDY DESIGN CHECKLIST

The COSMIN Study Design Checklist (Mokkink et al., 2019) was used to further evaluate the reliability and validity of the Wholistic Health Assessment ©.

### General Validity

General recommendations for the design of a study on measurement properties.

| <b>Research Aim</b>      |  |   |
|--------------------------|--|---|
| 1                        | Provide a clear research aim, including (1) the name and version of the PROM, (2) the target population, and (3) the measurement properties of interest.   | ✓ |
| <b>PROM</b>              |  |   |
| 2                        | Provide a clear description of the construct to be measured.   | ✓ |
| 3                        | Provide a clear description of the development process of the PROM, including a description of the target population for which the PROM was developed.   | ✓ |
| 4                        | The origin of the construct should be clear: provide a theory, conceptual framework (i.e. reflective or formative model) or disease model used or clear rationale to define the construct to be measured.  | ✓ |
| 5                        | Provide a clear description of the structure of the PROM (i.e. the number of items and subscales included in the PROM, instructions given and response options) and its scoring algorithm.   | ✓ |
| 6                        | Provide a clear description of existing evidence on the quality of the PROM.   | ✓ |
| 7                        | Provide a clear description of the context of use (e.g. specific settings, mode of administration, etc.).  | ✓ |
| <b>Target Population</b> |  |   |
| 8                        | Provide a clear description of in- and exclusion criteria to select patients, e.g. in terms of disease condition and characteristics like age, gender, language or country, and setting (e.g. general population, primary care or hospital/rehabilitation care). | ✓ |
| 9                        | Provide a clear description of the method used to select the patients for the study (e.g. convenience, consecutive, or random).  | ✓ |
| 10                       | Describe whether the selected sample is representing the target population in which the PROM will be used in terms of age, gender, important disease characteristics (e.g. severity, status, duration).  | ✓ |



## Content Validity

Content validity of existing PROMs can be assessed by asking patients and professionals about the relevance, comprehensiveness and comprehensibility of the items, response options, and instructions.

| <b>Design Requirements</b> |  |   |
|----------------------------|--|---|
| 1                          | From the perspective of the patients: use an appropriate method for assessing:<br>(1) the relevance of each item for the patients' experience with the condition, <b>AND</b><br>(2) the comprehensiveness of the PROM, AND (3) the comprehensibility of the PROM instructions, items, response options, and recall period. | ✓ |
| 2                          | From the perspective of <u>professionals</u> : use an appropriate method for assessing:<br>(1) the relevance of each item for the construct of interest, <b>AND</b><br>(2) the comprehensiveness of the PROM.  | ✓ |
| 3                          | Include professionals from all relevant disciplines.   | ✓ |
| 4                          | Evaluate each item in an appropriate number of patients or professionals.<br>(≥50 individuals - best; 30 - 49 individuals - good)  | ✓ |
| 5                          | Use skilled group moderators or interviewers.  | ✓ |
| 6                          | Base the group meetings or interviews on an appropriate topic or interview guide.  | ✓ |
| 7                          | Record and transcribe verbatim the group meetings or interviews.   | ✓ |
| <b>Analyses</b>            |  |   |
| 8                          | Use an appropriate approach to analyze the data.   | ✓ |
| 9                          | Involve at least two researchers in the analysis.  | ✓ |



## Measurement Error and Reliability

Measurement error and reliability can be calculated based on the same study design and data collection. Basically, two measurements are needed in a group of people who are all assumed to be stable on the construct to be measured.

| <b>Design Requirements</b>                       |   |     |
|--|---|-----|
| 1  | Use at least two measurements.  | ✓   |
| 2  | Ensure that the administrations will be independent.  | ✓   |
| 3  | Ensure that the patients will be stable in the interim period on the construct to be measured.  | ✓   |
| 4  | Use an appropriate time interval between the two measurements, which is long enough to prevent recall, and short enough to ensure that patients remain stable.                                | ✓   |
| 5  | Ensure that the test conditions will be similar for the measurements (e.g. type of administration, environment, instructions).  | ✓   |
| 6  | Perform the analysis in a sample with an appropriate number of patients, taking into account expected number of missing values.<br>(≥100 individuals - best; 50-99 individuals - good)        | ✓   |
| 7  | Provide a clear description of how missing items will be handled (for statistical methods).   | ✓   |
| <b>Statistical Methods for Measurement Error</b> |   |     |
| 8  | For continuous scores: calculate the Standard Error of Measurement (SEM), Smallest Detectable Change (SDC) or Limits of Agreement (LoA) and clearly describe model or formula.                | ✓   |
| 9  | For dichotomous/nominal/ordinal scores: calculate the percentage (positive and negative) agreement.   | N/A |
| <b>Statistical Methods for Reliability</b>       |   |     |
| 10   | For continuous scores: calculate an intraclass correlation coefficient (ICC) and clearly describe model or formula.<br>(Pearson or Spearman correlation coefficient acceptable but not ideal) | ✓   |
| 11   | For dichotomous/nominal/ordinal scores: calculate kappa.  | N/A |
| 12   | For ordinal scores: calculate a weighted kappa.   | N/A |



## Responsiveness

Responsiveness is considered to indicate longitudinal validity. The hypotheses of expected change scores of the PROM before and after intervention was tested.

| <b>Design Requirements</b> |   |   |
|----------------------------|---|---|
| 1                          | Formulate challenging hypotheses regarding expected changes before and after intervention a priori (i.e. before data collection).   | ✓ |
| 2                          | Provide an adequate description of the intervention to allow replication, including how and when they will be administered.   | ✓ |
| 3                          | Use an appropriate time interval between first and second administration.   | ✓ |
| 4                          | Describe anything likely to occur in the interim period (e.g. intervention, progressive disease, other relevant events) is adequately.  | ✓ |
| 5                          | Ensure that a proportion of the patients is likely to change (i.e. improvement or deterioration) on the construct to be measured.   | ✓ |
| 6                          | Perform the analysis in a sample with an appropriate number of patients, taking into account expected number of missing values. (≥100 individuals - best; 50-99 individuals good) | ✓ |
| <b>Statistical Methods</b> |   |   |
| 7                          | Ensure that the statistical methods are adequate for the hypotheses to be tested.   | ✓ |
| 8                          | Provide a clear description of how missing items will be handled.   | ✓ |



## VARIABLE CROSSWALK

| HHA Variable      | Description   | Source      |
|-------------------|---|-------------|
| <b>Trauma</b>     |   |             |
| 1. HurtfulNames   | Participants self-reported experience with being called hurtful names or spoken to harshly consistently by a parent, guardian, or lover | ACE Q1      |
| 2. NoNurturing    | Participants self-reported experience with not being provided attention, support, or nurturing consistently by parent or guardian       | ACE Q4      |
| 3. Hit            | Participants self-reported experience with being punched, smacked, pushed, tripped, etc. by a parent, guardian, or lover                | ACE Q2      |
| 4. NeedsNotMet    | Participants self-reported experience with not being provided food or clothing consistently by a parent or guardian                     | ACE Q5      |
| 5. ForcedSex      | Participants self-reported experience with being involved in unwanted or forced sexual activity   | ACE Q3      |
| 6. Responsible    | Participants self-reported experience with having adult responsibilities as a child consistently  | Constructed |
| 7. Violence       | Participants self-reported experience with witnessing violence consistently at home   | ACE Q7      |
| 8. SubstanceAbuse | Participants self-reported experience with witnessing   | ACE Q8      |





|                        |  |             |
|------------------------|--|-------------|
|                        | substance abuse consistently at home   |             |
| 9. MentalIllness       | Participants self-reported experience with witnessing mental illness consistently at home                        | ACE Q9      |
| 10. ParentDivorce      | Participants self-reported experience with witnessing parent(s) separation/divorce                               | ACE Q6      |
| 11. ParentIncarcerated | Participants self-reported experience with witnessing parent(s) incarceration                                    | ACE Q10     |
| 12. Homelessness       | Participants self-reported experience with homelessness or moving consistently                                   | Constructed |
| 13. BodyFunction       | Participants self-reported experience with losing a limb(s), major bodily functions, or extreme sickness         | Constructed |
| 14. NaturalDisaster    | Participants self-reported experience with a significant natural disaster(s)                                     | Constructed |
| 15. DirectTerrorism    | Participants self-reported experience with being directly affected by terrorism, community, or school violence   | Constructed |
| 16. IndirectTerrorism  | Participants self-reported experience with being indirectly affected by terrorism, community, or school violence | Constructed |
| 17. LovedOne           | Participants self-reported experience with an absent, inactive, or death of a close loved one                    | Constructed |
| 18. TRBelief           | Participants self-reported belief of whether experiences were traumatic.   | Constructed |



|                                |   |                 |
|--------------------------------|---|-----------------|
| 19. TraumaResponseProfessional | Participants self-reported experience with a parent or guardian calling them hurtful names or speaking harshly toward them consistently | WOC Q22         |
| 20. TraumaResponseFamilyFriend | Participants self-reported experience with a parent or guardian calling them hurtful names or speaking harshly toward them consistently | WOC Q31, 42, 45 |
| 21. TraumaResponseGod          | Participants self-reported experience with a parent or guardian calling them hurtful names or speaking harshly toward them consistently | WOC Q60         |
| 22. TraumaResponseNoOne        | Participants self-reported experience with a parent or guardian calling them hurtful names or speaking harshly toward them consistently | Constructed     |
| <b>Coping</b>                  |   |                 |
| 23. Alcohol                    | Participants self-reported frequency of utilizing alcohol to cope with negative or unpleasant experiences                               | WOC Q33         |
| 24. Drugs                      | Participants self-reported frequency of utilizing illegal or legal drugs to cope with negative or unpleasant experiences                | WOC Q33         |
| 25. Overeating                 | Participants self-reported frequency of utilizing food to cope with negative or unpleasant experiences                                  | WOC Q33         |
| 26. Smoking                    | Participants self-reported frequency of utilizing tobacco products to cope with negative or unpleasant experiences                      | WOC Q33         |



|                |  |             |
|----------------|--|-------------|
| 27. Gaming     | Participants self-reported frequency of utilizing video games excessively to cope with negative or unpleasant experiences                | Constructed |
| 28. Shopping   | Participants self-reported frequency of utilizing shopping excessively to cope with negative or unpleasant experiences                   | Constructed |
| 29. Gambling   | Participants self-reported frequency of utilizing monetary games of chance to cope with negative or unpleasant experiences               | Constructed |
| 30. Sex        | Participants self-reported frequency of utilizing premarital or marital sexual relations to cope with negative or unpleasant experiences | Constructed |
| 31. Porn       | Participants self-reported frequency of utilizing pornography to cope with negative or unpleasant experiences                            | Constructed |
| 32. Blaming    | Participants self-reported frequency of blaming others to cope with negative or unpleasant experiences without any self accountability   | WOC Q47     |
| 33. Acceptance | Participants self-reported frequency of seeking acceptance or agreement from others to cope with negative or unpleasant experiences      | WOC Q18     |
| 34. Disengage  | Participants self-reported frequency of disengaging, detaching, or self-isolating to   | WOC Q44     |



|                |   |             |
|----------------|---|-------------|
|                | cope with negative or unpleasant experiences  |             |
| 35. Art        | Participants self-reported frequency of utilizing drawing, painting, calligraphy or other forms of decorative art to cope with negative or unpleasant experiences | Constructed |
| 36. Music      | Participants self-reported frequency of utilizing music, whether listening or singing, to cope with negative or unpleasant experiences                            | Constructed |
| 37. Poetry     | Participants self-reported frequency of utilizing poetry, or poetical wordsmithing, to cope with negative or unpleasant experiences                               | Constructed |
| 38. Reading    | Participants self-reported frequency of utilizing reading to cope with negative or unpleasant experiences   | Constructed |
| 39. Groups     | Participants self-reported frequency of utilizing support, therapeutic, or counseling groups to cope with negative or unpleasant experiences                      | Constructed |
| 40. Counseling | Participants self-reported frequency of utilizing individual counseling to cope with negative or unpleasant experiences   | WOC Q22     |
| 41. Venting    | Participants self-reported frequency of talking with or venting to other people to cope with negative or unpleasant experiences                                   | WOC Q45     |



|                |  |             |
|----------------|--|-------------|
| 42. Writing    | Participants self-reported frequency of utilizing writing to cope with negative or unpleasant experiences  | Constructed |
| 43. Sensory    | Participants self-reported frequency of utilizing sensory items, fidgets, or other gadgets to cope with negative or unpleasant experiences             |             |
| 44. Dancing    | Participants self-reported frequency of utilizing dance to cope with negative or unpleasant experiences  | Constructed |
| 45. Exercising | Participants self-reported frequency of utilizing exercise, including sports, to cope with negative or unpleasant experiences                          | Constructed |
| 46. Walking    | Participants self-reported frequency of walking to cope with negative or unpleasant experiences  | Constructed |
| 47. Change     | Participants self-reported frequency of trying to change variables in a situation for improved results to cope with negative or unpleasant experiences | WOC Q39     |
| 48. Analyze    | Participants self-reported frequency of analyzing a situation for learning or understanding to cope with negative or unpleasant experiences            | WOC Q2      |
| 49. Daydream   | Participants self-reported frequency of daydreaming or imagining a different situation to cope with negative or unpleasant experiences                 | WOC Q57     |



|                      |  |                           |
|----------------------|--|---------------------------|
| 50. Positive         | Participants self-reported frequency of focusing on positive elements in a situation to cope with negative or unpleasant experiences | WOC Q15                   |
| <b>Mental Health</b> |  |                           |
| 51. PTSD             | Participants self-reported diagnosis of PTSD   | MEPS VAPTSD31             |
| 52. DepressionDX     | Participants self-reported diagnosis of depression   | WHO F8.3                  |
| 53. SUD              | Participants self-reported diagnosis of substance use disorder   | MEPS VALCOH31             |
| 54. OtherMental      | Participants self-reported diagnosis of any other mental health diagnoses not listed   | Constructed               |
| 55. Sleeplessness    | Participants self-reported frequency of sleeplessness during their normal sleeping hours   | WHO F3.2<br>MEPS ADREST42 |
| 56. AlcoholUse       | Participants self-reported frequency of alcohol use  | Constructed               |
| 57. Anxiety          | Participants self-reported frequency of anxiety  | MEPS ADNERV42             |
| 58. Depression       | Participants self-reported frequency of depression   | MEPS ADDPRS42             |
| 59. DrugUse          | Participants self-reported frequency of illegal or legal drug use  | Constructed               |
| 60. Grief            | Participants self-reported frequency of grief  | Constructed               |
| 61. Guilt            | Participants self-reported frequency of guilt  | Constructed               |
| 62. Irritability     | Participants self-reported frequency of irritability   | Constructed               |
| 63. Stress           | Participants self-reported frequency of stress   | Constructed               |



|                        |   |                    |
|------------------------|---|--------------------|
| 64. Regret             | Participants self-reported frequency of regret  | Constructed        |
| 65. SuicidalThoughts   | Participants self-reported frequency of suicidal thoughts or ideation                                 | Constructed        |
| 66. Uncertainty        | Participants self-reported frequency of uncertainty   | Constructed        |
| 67. Worry              | Participants self-reported frequency of worry   | Constructed        |
| <b>Physical Health</b> |   |                    |
| 68. Infertility        | Participants self-reported diagnosis of infertility   | Constructed        |
| 69. CurableSTD         | Participants self-reported diagnosis of any type of curable sexually transmitted disease or infection | Constructed        |
| 70. IncurableSTD       | Participants self-reported diagnosis of any type of incurable sexually transmitted disease            | Constructed        |
| 71. Cancer             | Participants self-reported diagnosis of any type of cancer  | MEPS CANCERDX      |
| 72. Diabetes           | Participants self-reported diagnosis of any type of diabetes  | MEPS DIABDX_M18    |
| 73. HighBlood          | Participants self-reported diagnosis of high blood pressure   | MEPS HIBPDX        |
| 74. HeartDisease       | Participants self-reported diagnosis of heart disease   | MEPS CHDDX, OHRTDX |
| 75. IrritableBowel     | Participants self-reported diagnosis of irritable bowel syndrome                                      | Constructed        |
| 76. Vit A              | Participants self-reported diagnosis of extreme vitamin A deficiency                                  | Constructed        |
| 77. Vit B              | Participants self-reported diagnosis of extreme vitamin B deficiency                                  | Constructed        |



|                   |  |   |
|-------------------|--|---|
| 78. Vit C         | Participants self-reported diagnosis of extreme vitamin C deficiency   | Constructed                               |
| 79. Vit D         | Participants self-reported diagnosis of extreme vitamin D deficiency   | Constructed                               |
| 80. Vit E         | Participants self-reported diagnosis of extreme vitamin E deficiency   | Constructed                               |
| 81. Vit K         | Participants self-reported diagnosis of extreme vitamin K deficiency   | Constructed                               |
| 82. Autoimmune    | Participants self-reported diagnosis of any autoimmune diseases  | Constructed                               |
| 83. OtherPhysical | Participants self-reported diagnosis of any other physical health diagnoses not listed                                       | Constructed                               |
| 84. Vege/Fruits   | Participants self-reported frequency of eating and digesting vegetables and fruits either whole or juiced from fresh produce | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |
| 85. Bean/Lentils  | Participants self-reported frequency of eating and digesting vegetables and fruits either whole or juiced from fresh produce | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |
| 86. Grain/Breads  | Participants self-reported frequency of eating and digesting grains and breads   | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |
| 87. Dairy         | Participants self-reported frequency of eating and digesting dairy   | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |
| 88. Meat          | Participants self-reported frequency of eating and digesting animal meat   | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |





|                         |   |   |
|-------------------------|---|---|
| 89. Fish/Seafood        | Participants self-reported frequency of eating and digesting fish or seafood  | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |
| 90. Sweets              | Participants self-reported frequency of eating and digesting desserts, candy, chocolate, or other foods high in sugar content | USDA Table A3-4, A3-5, 1-1, 4-1, 5-1, 6-1 |
| 91. Water               | Participants self-reported frequency of drinking any pure or unflavored water   | Constructed                               |
| 92. PhysicalActivity    | Participants self-reported frequency of intentional physical activity or movement   | MEPS PHYEXE53                             |
| <b>Spiritual Health</b> |   |   |
| 93. SpiritualDefine     | Participants self-reported agreement or disagreement with how spirituality may define personal goals                          | SHQ                                       |
| 94. SpirituallIntegrate | Participants self-reported agreement or disagreement with how spirituality may be integrated into whole life                  | SHQ                                       |
| 95. Prayer              | Participants self-reported frequency of prayer  | Constructed                               |
| 96. SpiritualActivity   | Participants self-reported frequency of participating in spiritual health activities  | Constructed                               |
| 97. ReadText            | Participants self-reported frequency of reading religious text  | SHQ                                       |
| 98. AlignText           | Participants self-reported frequency of trying to align ones lifestyle to religious text                                      | SHQ                                       |
| 99. Community           | Participants self-reported frequency of prayer  | SHQ                                       |
| <b>Outlook on Life</b>  |   |   |



|                    |   |                         |
|--------------------|---|-------------------------|
| 100. Hope          | Participants self-reported frequency of hope for the future and sense of purpose                            | MEPS ADHOPE42           |
| 101. Peace         | Participants self-reported frequency of peace of mind   | MEPS ADPCFL42           |
| 102. Learning      | Participants self-reported frequency of willingness to learn and be corrected                               | WHO F5.2                |
| 103. Joy           | Participants self-reported frequency of joy even in trying times  | Constructed             |
| 104. Stable        | Participants self-reported frequency of financial stability including but not limited to income and housing | WHO F18.2               |
| 105. Safety        | Participants self-reported frequency of safety and security   | WHO F16.1, F16.4        |
| 106. Kindness      | Participants self-reported frequency of kindness toward others  | Constructed             |
| 107. Forgiveness   | Participants self-reported frequency of forgiving self and others   | Constructed             |
| 108. Patience      | Participants self-reported frequency of patience with themselves and others                                 | Constructed             |
| 109. Relationships | Participants self-reported frequency of supportive relationships  | WHO F13.3, F14.3, F14.4 |
| 110. Boundaries    | Participants self-reported frequency of being able to set and maintain appropriate boundaries               | Constructed             |
| 111. ENegative     | Participants self-reported frequency of feeling negative emotions   | WHO F8.1                |



|  |   |             |
|--|---|-------------|
| 112. EPositive                               | Participants self-reported frequency of feeling positive emotions             | WHO F4.4    |
| 113. EControl                                | Participants self-reported frequency of feeling in control of emotions        | Constructed |
| 114. ENumber                                 | Participants self-reported number of emotions communicated consistently       | Constructed |
| <b>Identifying</b>                           |   |             |
| 115. ClientEmail                             | Email provided by participant   | Constructed |
| 116. CompletionDate                          | Date participant completed assessment   | Constructed |
| 117. Client ID                               | ID assigned by collection software  | Constructed |
| 118. SSN                                     | Participant's self-reported SSN   | Constructed |
| 119. FirstName                               | Participant's self-reported first name  | Constructed |
| 120. LastName                                | Participant's self-reported last name   | Constructed |
| 121. DateOfBirth                             | Participant's self-reported date of birth                                     | Constructed |
| <b>Social Determinants of Health (SDoH)*</b> |   |             |
| 122. CurrentAge                              | Participant's self-reported age at the time the assessment was completed      | Constructed |
| 123. Race                                    | Participant's self-reported primary race                                      | Constructed |
| 124. Ethnicity                               | Participant's self-reported primary ethnicity                                 | Constructed |
| 125. State                                   | Participant's self-reported state within the U.S. where currently residing    | Constructed |
| 126. ZipCode                                 | Participant's self-reported zip code within the U.S. where currently residing | Constructed |



|                     |  |             |
|---------------------|--|-------------|
| 127. MaritalStatus  | Participant's self-reported marital status   | Constructed |
| 128. MilitaryStatus | Participant's self-reported military status  | Constructed |
| 129. GenderAtBirth  | Participant's self-reported gender including self-identification                                       | Constructed |
| 130. Education      | Participant's self-reported educational attainment   | Constructed |
| 131. JobStatus      | Participant's self-reported job status at the time the assessment was completed                        | Constructed |
| 132. Income         | Participant's self-reported income at the time the assessment was completed                            | Constructed |
| 133. HousingStatus  | Participant's self-reported housing status at the time the assessment was completed                    | Constructed |
| 134. HomeAsChild    | Participant's self-reported family structure / parental guardianship as a child                        | Constructed |
| 135. Religion       | Participant's self-reported religious beliefs or affiliations at the time the assessment was completed | Constructed |
| 136. Denomination   | Participant's self-reported affiliation with a Christian denomination if applicable                    | Constructed |

\*There are additional SDoH's captured in this assessment outside of the SDoH section, including 103 Stable, 104 Safety, certain types of trauma (e.g. 10, 11, 12, and 15), and nutritional habits (e.g. 83-90) which could indicate food insecurity.



## ACRONYMS

ACE - Adverse Childhood Experiences Questionnaire

Constructed - Author Developed Questions

MEPS - Medical Expenditure Panel Survey

PROM - Patient Reported Outcome Measurement

SHQ - Spiritual Health Questionnaire

USDA - United States Department of Agriculture Dietary Guidelines for Americans

WHO - World Health Organization Quality of Life Questionnaire

WOC - Ways of Coping Questionnaire

## REFERENCES

Agency for Healthcare Research and Quality (AHRQ). (2019). Medical expenditure panel survey (MEPS). Retrieved from [https://meps.ahrq.gov/survey\\_comp/hc\\_survey/paper\\_quest/2019/2019\\_SAQ\\_ENG.pdf](https://meps.ahrq.gov/survey_comp/hc_survey/paper_quest/2019/2019_SAQ_ENG.pdf).

Akbari, M., Hossaini, S. M. (2018). The relationship of spiritual health with quality of life, mental health, and burnout: The mediating role of emotional regulation. *Iran Journal of Psychiatry*, 13(1):22-31.

Bożek, A., Nowak, P. F., & Blukacz, M. (2020). The relationship between spirituality, health-related behavior, and psychological well-being. *Frontiers in Psychology*, 11. Doi: 10.3389/fpsyg.2020.01997.

Centers for Disease Control and Kaiser Permanente. (n.d.). Adverse Childhood Experiences (ACE) questionnaire. Retrieved from <https://www.ncjfcj.org/wp-content/uploads/2006/10/Finding-Your-Ace-Score.pdf>.

Chen, S., Zhou, W., Luo, T., Huang, L. (2022). Relationships between mental health, emotion regulation, and meaning in life of frontline nurses during the covid-19 outbreak. *Front Psychiatry*, 13:798406. doi: 10.3389/fpsyt.2022.798406.

Felitti, V. J., Anda, R. F., Nordenberg, D., Williamson, D. F., Spitz, A. M., Edwards, V., & Marks, J. S. (1998). Relationship of childhood abuse and household dysfunction to many of the leading causes of death in adults. *American Journal of Preventive Medicine*, 14(4), 245-258. doi: 10.1016/s0749-3797(98)00017-8.



Folkman, S. & Lazarus, R. S. (1985). Ways of coping questionnaire. Retrieved from <https://prevention.ucsf.edu/sites/prevention.ucsf.edu/files/uploads/tools/surveys/pdf/Ways%20of%20coping.pdf>.

Hall, E. J. & Powell, R. A. (2021). Valuing the spiritual. *Journal of Religion and Health*, 60(3), 1430-1435. doi: 10.1007/s10943-021-01206-9.

Mokkink, L. B., Prinsen, C. A. C., Patrick, D. L., Alonso, J., Bouter, L. M., de Vet, H. C. W., Terwee, C. B. (2019). COSMIN study design checklist for patient-reported outcome measurement instruments. COSMIN. Retrieved from [https://www.cosmin.nl/wp-content/uploads/COSMIN-study-designing-checklist\\_final.pdf](https://www.cosmin.nl/wp-content/uploads/COSMIN-study-designing-checklist_final.pdf).

Parsian, N. & Dunning, T. (2009). Developing and validating a questionnaire to measure spirituality: A psychometric process. *Global Journal of Health Science*, 1(1). Retrieved from <https://dro.deakin.edu.au/eserv/DU:30019516/dunning-developingandvalidating-2009.pdf>.

United States Department of Agriculture (USDA). (n.d.) Dietary guidelines for Americans. Retrieved from [https://www.dietaryguidelines.gov/sites/default/files/2021-03/Dietary\\_Guidelines\\_for\\_Americans-2020-2025.pdf](https://www.dietaryguidelines.gov/sites/default/files/2021-03/Dietary_Guidelines_for_Americans-2020-2025.pdf).

World Health Organization. (n.d.). Quality of life survey. Retrieved from <https://www.who.int/tools/whoqo>.