



PRIMARY CARE BEHAVIORAL HEALTH PROVIDER ADHERENCE QUESTIONNAIRE-2 (PPAQ-2) USER GUIDE

Instrument Description

The PPAQ-2 is a self-report instrument completed by integrated behavioral health providers to assess adherence to key features of health services delivery when working in Primary Care Behavioral Health (PCBH) and/or Collaborative Care Management (CCM) settings. The PPAQ-2 uses a 5-point, Likert-type response scale ranging from “never” to “always.” When used as a self-assessment, integrated care providers can evaluate their usual clinical practices across multiple domains of practice described below:

PCBH Domains (Items 1-42)

Clinical Scope and Interventions (CSI): This domain refers to integrated care provider behaviors related to providing clinical services to patients, including the type and nature of interventions utilized

Practice and Session Management (PSM): This domain refers to integrated care provider behaviors that characterize their overall approach to integrated health care using a population-based model

Referral Management and Care Continuity (RMCC): This domain refers to integrated care provider behaviors related to the types of referrals they accept from PCPs, as well as advice given to PCPs about referring to specialty mental health

Consultation, Collaboration, and Interprofessional Communication (CCIC): This domain refers to integrated care provider behaviors related to communicating and collaborating with other members of the primary care team

Prohibited (P): This domain refers to integrated care provider behaviors that are inconsistent with the PCBH population-based model and more indicative of engagement in specialty mental health care. *These behaviors should be avoided.*

CCM Domains (Items 43-93)

Patient Identification (PI): This domain refers to integrated care provider behaviors related to proactively identifying patients for intervention and being receptive to referrals from the primary care team

Patient Education, Self-Management Support, and Psychological Intervention (PESSPI): This domain refers to integrated care provider behaviors related to providing care management clinical services to patients, including education, motivational enhancement, and related behavioral or psychological intervention.

Supervision and Care Coordination (SCC): This domain refers to integrated care provider behaviors related to facilitating communication, care coordination, and treatment decision making between the primary care provider and supervising mental health prescriber.

Measurement-Based Care and Protocol Adherence (MBCPA): This domain refers to integrated care provider behaviors related to use of protocolized care procedures to engage in measurement-based care, including the use of standardized measures from baseline through follow-up.

Panel Management (PM): This domain refers to integrated care provider behaviors related to population-level monitoring and evaluation of patients who have received care management services.

PPAQ Scoring Instructions

Compute the mean of PPAQ-2 items as indicated below for the five PCBH subscales and five CCM subscales. Items comprising the Prohibited subscale of the PCBH items are **reverse scored** before computing the mean to facilitate consistency of interpretation (i.e., higher mean scores indicate higher self-reported fidelity).

*****Note to users of the original PPAQ***:** The revisions included in the PPAQ-2 primarily added new items to assess CCM domains. However, **several original PCBH items were removed**. Therefore, item numbers used in the PPAQ-2 **do not** correspond to those used in the original PPAQ. Prior scoring guidance for the PPAQ should be replaced with the new numbering and scoring guidance below:

PCBH Domains

Clinical Scope and Interventions (CSI) = $(5 + 21 + 40 + 42)/4$

Consultation, Collaboration, and Interprofessional Communication (CCIC) = $(11 + 13 + 17 + 24 + 28 + 29 + 41)/7$

Practice and Session Management (PSM) = $(1 + 2 + 3 + 6 + 7 + 10 + 12 + 14 + 15 + 18 + 19 + 20 + 23 + 26 + 27 + 30 + 35 + 37 + 39)/19$

Prohibited REVERSE SCORE ALL ITEMS IN THIS DOMAIN PRIOR TO COMPUTING THE MEAN = $(16 + 22 + 33 + 38)/4$

Referral Management and Care Continuity (RMCC) = $(4 + 8 + 9 + 25 + 31 + 32 + 34 + 36)/8$

CCM Domains

Patient Identification (PI) = $(43 + 44)/2$.

Patient Education, Self-Management Support, and Psychological Intervention (PESSPI) = $(45 + 46 + 47 + 48 + 49 + 50 + 51 + 52 + 53 + 54 + 55 + 56 + 57)/13$.

Supervision and Care Coordination (SCC) = $(58 + 59 + 60 + 61 + 62 + 63 + 64 + 65 + 66 + 67)/10$.

Measurement-based Care and Protocol Adherence (MBCPA) = $(68 + 69 + 70 + 71 + 72 + 73 + 74 + 75 + 76 + 77 + 78 + 79 + 80 + 81 + 82 + 83 + 84 + 85 + 86 + 87 + 88 + 89 + 90)/23$.

Panel Management (PM) = $(91 + 92 + 93)/3$.

PPAQ-2 Development and Validation References

- Beehler, Funderburk, Possemato, & Vair. (2013). Developing a measure of provider adherence to improve the implementation of behavioral health services in primary care: A Delphi study. *Implementation Science*, 8, 19.
- Beehler, Funderburk, Possemato, & Dollar. (2013). Psychometric assessment of the *Primary Care Behavioral Health Provider Adherence Questionnaire* (PPAQ). *Translational Behavioral Medicine*, 3, 379-391.
- Beehler, Funderburk, King, Wade, & Possemato. (2015). Using the Primary Care Behavioral Health Provider Adherence Questionnaire (PPAQ) to identify practice patterns. *Translational Behavioral Medicine*, 5, 384-392.
- Beehler & Lilienthal. (2017). Provider perceptions of an integrated primary care quality improvement strategy: The PPAQ Toolkit. *Psychological Services*, 14, 50-56.
- Beehler, Funderburk, King, Possemato, Maddoux, Goldstein, & Wade (2019). Validation of an expanded measure of integrated care provider fidelity: PPAQ-2. *Journal of Clinical Psychology in Medical Settings*, 27, 158-172.

Additional information regarding the PPAQ-2 is available from Dr. Gregory P. Beehler (gregory.beehler@va.gov)

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