

TITLE: DEVELOPMENT AND VALIDATION OF THE WEB-BASED PATIENT-REPORTED OUTCOMES CAPTURE SYSTEM-NEEDS, ACCEPTANCE AND READINESS ASSESSMENT (WPROCS-NARA) QUESTIONNAIRES

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ABSTRACT. Purpose: Web-based patient-reported outcomes capture systems improve efficacy of symptom monitoring and management and may overcome barriers to long-term monitoring and care among adult cancer patients. We developed an instrument to explore perspectives and attitudes for such a remote capture system among Filipino adult cancer patients. **METHODS:** The study was consisted of 3 parts: (1) development of questionnaire through literature review of applicable instruments and relevant studies; (2) face and content validation through modified Delphi technique examination of relevant stakeholders (i.e. oncologists, oncology nurse, information technology consultants, and biostatistician) and questionnaire administration to 20 cancer patients and (3) pilot testing for construct validation and internal consistency reliability testing among 130 cancer patients. **RESULTS:** Three assessment questionnaires utilizing weighted single-response or multiple- response choice formats or 4-point Likert scale was developed for 3 critical domains: (1) Needs assessment Questionnaire (NAQ) which explored emotional health, healthcare needs, symptoms, medications, feeding, nutrition, social support, access to healthcare, ambulatory capacity and functional disability; (2) Acceptance Assessment Questionnaire (AAQ) which explored socio-demographic variables, attitude towards tool, perceived logistic capacity and competency to use it, and willingness to acquire or access materials, equipment, knowledge; and (3) Readiness Assessment Questionnaire (RAQ) which explored computer and Internet Access, use, skills training and perceived competence. Expert review and initial administration of the tool determined the relevant items and items that needed modification. The analyses of results of pilot testing of the modified tools revealed that all questionnaires have good construct validity (absence of complex item upon principal component analyses) and acceptance internal consistency reliability (reliability (NAQ Cronbach alpha=0.84; RAQ Cronbach alpha=0.77; AAQ Cronbach alpha=0.71). **CONCLUSION:** The WPROCS-NARA is a valid and reliable 46-item tool in understanding the needs, acceptance and readiness among Filipino adult cancer patients for web-based patient-reported outcomes capture system.

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