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Assessing Worry in Children: Psychometric Evaluation of the Indonesian Version of the Penn State Worry Questionnaire for Children (PSWQ- C) Annastasia Ediati Faculty of Psychology, <u>Diponegoro University, Semarang, Indonesia</u> ediati.psi@gmail.com Agustini Utari Department of Pediatrics, Faculty of Medicine, Diponegoro University, Semarang, Indonesia agustiniutari@gmail.com Abstract The Penn State Worry Questionnaire for Children (PSWQ-C) is a well-known 14-items <u>self- report measure of worry in children and adolescents.</u> Previous studies reported favorable <u>psychometric properties in clinical and</u> non-clinical samples, but recommendations given to use the full version or the shortened version of PSWQ-C are inconclusive. As a standardized measure of worry was not available in Indonesia prior to the study, the present study aims to evaluate the Indonesian version of PSWQ- C as a measure of worry on children and to assess worry <u>in a large</u> non-clinical <u>sample of</u> Indonesian <u>children.</u> We conducted forward-backward translation and applied the

Indonesian translation of PSWQ-C on 653 children (3rd to 5thgrades) from four state elementary schools in Semarang city. Furthermore, we also conducted comparison analysis across gender and grades. Principal component analysis resulted in two-factor structure of 14 items as well as a one-factor structure comprised 11 items. The reversed scoring items had poor psychometric qualities. The Indonesian version of 11-items PSWQ-C has satisfactory internal consistency (a = 0.808). Young girls significantly scored higher than boys, but no significant differences were found across grades. The Indonesian version of the 11- item PSWQ-C demonstrated favorable psychometric properties to be applied in the future studies. Intervention to prevent or reduce anxiety and depression in young children should consider gender and grades differences. Keywords: PSWQ, worry, anxiety, children, Indonesia Received 8 July 2018/Accepted 14 January 2019 ©JEHCP All rights reserved Introduction Worry is common among people across age. It has been known that worry associated with generalized anxiety disorder (GAD) in adults (Brown, Barlow, & Liebowitz, 1994; Brown, Campbell, Lehman, Grisham, & Mancill, 2001). A few studies reported similar findings in children and adolescents (Chorpita, Tracey, Brown, Collica, & Barlow, 1997; Muris, Meesters, & Gobel, 2001; Pestle, Chorpita, & Schiffman, 2008). Persistent worry is defined as repeatedly thinking about the possibilities of threats, risks, uncertainties, and catastrophes in the future (Watkins, 2008). Worry can predict anxiety, both concurrently and prospectively (Hong, 2007; Watkins, 2008). The prevalence of worry among children is unknown. However, worry is an important feature of anxiety in young children as young as age five, and its prevalence and complexity tend to increase through middle childhood (Vasey, Crnic, & Carter, 1994). Despite the reported similar studies from Western countries, studies on worry in Indonesian children is hardly conducted. One of the reason is the lack of validated instrument available to measure worry in children. The Penn State Worry Questionnaire for Children (PSWQ-C) was originated from the similar measure of worry on adults so called PSWQ (Meyer, Miller, Metzger, & Borkovec, 1990). The PSWQ-C originally comprised 14 items to measure worry in children aged 8-12 (Chorpita et al., 1997; Muris et al., 2001; Pestle et al., 2008). Previous reports revealed that PSWQ-C followed one-factor structure when it was applied in a clinical sample (Muris et al., 2001), however, other studies reported a two -factor structure when it was applied in the clinical sample (Pestle et al., 2008). In Asian population, validation studies of PSWQ-C have been reported in Chinese college students and Korean children (Kang, Shin, & Song, 2010; Zhong, Wang, Li, & Liu, 2009). Findings from the Korean study aligned with previous studies reporting the two factor structure of PSWQ-C but the one-factor structure was preferred (Kang et al., 2010). A recent study in Romanian samples demonstrated the high construct validity of the PSWQ-C and the brief version of PSWQ-C. The study results also confirmed previous findings on gender differences in children, that girls reported a higher level of worry than boys, and clinical samples reported a higher level of worry than community samples due to worry trait (Păsărelu et al., 2016). Previous studies revealed childhood anxiety

and depression are important predictors of psychopathology in adulthood (Beesdo et al., 2007; Roza, Hofstra, Van Der Ende, & Verhulst, 2003). When left untreated, these problems are likely to deteriorate (Harland, Reijneveld, Brugman, Verloove-Vanhorick, & Verhulst, 2002). Therefore, early prevention of these disorders is of utmost importance. Initial screening of worry on children can help schools and parents to take an initial step in preventing the development of childhood anxiety and depression. However, by the time the paper is written, no standardized measures on worry are available in the Indonesian language. Consequently, data concerning worry in Indonesian children are lacking, in which the study was intended to fill this gap. This study is part of a larger study assessing worry, anxiety, and depression in Indonesian students and how schools, as well as parents, can contribute to the prevention program. The present study aims to evaluate the Indonesian version of PSWQ-C as a measure of worry on children and to assess worry in a large non -clinical sample of Indonesian children. Method Participants The respondent comprised 653 elementary school students, aged 8-11 years, grade 3-5, from four state elementary schools (350 boys; 293 girls) located in Semarang city. The researchers approached state elementary schools located in the slum area of Semarang assuming the highest incidence of worry among students. Two schools represent the low socio-economic status of the parents, whereas the other two schools represent the middle class in the society. We contacted the school principals and presented the study design to them as well as the classroom teachers of the 3rd to 5th grades for approval to participate in the study. In addition to information concerning the study, we also explained the benefits for schools and students by participating the study and also their rights to refuse or discontinue participation. We followed the common practice in our country to conduct a social study. Permission was given considering that the researcher or the research assistants were available during the children to fill in the questionnaire (PSWQ-C). We gave information about the study to the students prior to giving instruction to fill the measure. Data were collected in the classroom by the researchers and the research assistants. The classroom teachers were available in the class to accompany the students. Measure The PSWQ-C is <u>14-item self-report</u> to <u>measure worry in children and adolescents</u> (aged 7 to 17 years) which originally developed in English (Chorpita et al., 1997; Pestle et al., 2008). Each item provides four options of response, ranged from never true, sometimes true, most times true, and Always true, which then scored between 0 to 3 (higher score indicates higher worry). Among these 14 items, three unfavorable questions were included in the PSWQ-C: "I do not really worry about things" (item 2), "I find it easy to stop worrying when I want" (item 7), and "I never worry about anything" (item 9). Previous studies reported poor performance of 56 these unfavorable questions (Chorpita et al., 1997; Kang et al., 2010; Muris et al., 2001), but other studies suggested to keep these problematic items (Pestle et al., 2008; Zhong et al., 2009). In this study, we tested the original (14 items) as well as the shortened (11 items) versions and we applied the scoring procedure described in the original English version. The possible total scores obtained

are 0-42 (for the original 14-items) and 0-33 (for the shortened 11-items) versions. Procedure Prior to the study, we obtained permission to conduct the study from our institution (Diponegoro University), the school principals as well as the classroom teachers of the participating schools. They received study information, explanation about the measures, the timing of the study, duration of answer the PSWQ-C, benefits of participating the study, and the rights of students and schools to refuse of discontinue their participation in the study. After data collection session was done, the students received small gifts to reward their participation in the study. The validation of the Indonesian translation of PSWQ-C was done following the procedure to translate, adapt, and validate instrument or scale for use in a cross-cultural health care research (Sousa & Rojjanasrirat, 2011). First, two independent translators translated the PSWQ-C English version into Bahasa Indonesia (the forward translation). Second, we discussed the results of the forward translation and reached agreement on the Indonesian translation of PSWO-C. Third, we sent this translation (the initial Indonesian version of PSWQ-C) to other translators to translate the Indonesian version into English (the backward translation). Fourth, we compared the results of both forward and backward translations. A few differences in wording were discussed together between the translators and the researchers resulted in the final version of the Indonesian translation of PSWQ-C to be used in this study. Data analysis In order to analyse the data, we conducted an exploratory factor analysis using the principal component analysis with varimax rotation. We explored the one or two component models and reported the best-fit model for this scale. The loading factor for each item was reported. Further, we calculated the itemtotal correlations for validity and the internal consistency using the Cronbach's alpha coefficient to evaluate the scale reliability. The independent t-test was used to investigate gender differences on PSWO-C data and the one-way ANOVA was applied to compare data across grades. All statistical calculation in the study was performed using IBM SPSS Statistic version 23.0. Results The principal component analysis with varimax rotation method resulted in two -factor structure which explained 37.91% of total variance. Figure 1 showed the scree plot of the PSWO-C Indonesian data with the eigenvalue higher than 1. The 14 items loaded into two components where the reversed-scoring items (items 2, 7, and 9) grouped separately from the 11-favorable items. Thus the two components separate the favorable and unfavorable items. The factor loadings of items following the onefactor and the two-factor structures were presented in Table 1. Figure 1. The scree plot of the Indonesian PSWQ-C data Table 1 Factor loadings of 14 items PSWQ-C: The one-factor and two-factor structure PSWQ-C items 2 factors 1 factor 1 2 Item 1 Item 2* Item 3 Item 4 Item 5 Item 6 Item 7* Item 8 Item 9* Item 10 Item 11 Item 12 Item 13 Item 14 0.480 -0.425 0.576 0.558 0.582 0.646 -0.320 0.553 -0.152 0.599 0.610 0.576 0.616 0.582 0.456 -0.148 -0.233 0.664 0.623 0.055 0.565 -0.064 0.570 -0.129 0.651 -0.086 -0.150 0.581 0.529 -0.162 0.085 0.765 0.603 -0.081 0.611 -0.092 0.594 -0.034 0.610 -0.116 0.527 -0.262 Notes: Data were extracted using the principal component analysis with varimax

rotation. *Unfavorable items in which reversed scoring were applied Furthermore, Table 2 presents the item-total correlations and the internal consistency (measured by Cronbach's alpha) on both original and shortened version. The unfavorable items (items 2, 7, and 9) have poor item-total correlations compared to the 11favorable items. In the shortened version, all items have good item-total correlations. In overall, the Cronbach's alpha of the Indonesian version of PSWQ-C is increased if the three problematic items were excluded (a original = 0.665; a shortened = 0.808). It can be concluded from data presented in Table 2 that the shortened version (11 items) scale had better psychometric quality than the original version (14 items) scale. Table 2 The item-total correlations and internal consistency (a) of the PSWQ-C Indonesian data: The original (14-items) and shortened (11-items) scales Original Shortened (14 items; a=0.665) (11 items; a=0.808) PSWO-C items Corrected Corrected item- Cronbach's a Cronbach's a if item deleted item-total if item deleted total correlation correlation Item 1 0.328 0.642 0.374 0.802 Item 2* -0.238 0.718 Item 3 0.456 0.622 Item 4 0.404 0.630 Item 5 0.424 0.626 Item 6 0.488 0.622 Item 7* -0.164 0.713 Item 8 0.386 0.634 Item 9* -0.009 0.695 Item 10 0.437 0.626 Item 11 0.444 0.626 Item 12 0.439 0.626 Item 13 0.440 0.626 Item 14 0.385 0.632 Notes: *Unfavorable items in which reversed scoring were applied - 0.477 0.449 0.475 0.537 - 0.442 - 0.485 0.495 0.475 0.500 0.462 -0.792 0.795 0.792 0.787 - 0.795 - 0.791 0.790 0.792 0.790 0.794 Comparison analysis across gender and grades were also conducted across PSWQ-C data obtained from this Indonesian samples. Table 3 presented the results of independent t-test and one-way ANOVA. It can be inferred from Table 3 that worry was significantly higher on girls compared to boys, whether it was assessed using the original (14-items) or the shortened version (11 items) of the Indonesian version of PSWQ-C. In view of worry across grades, no significant differences were found across students of 3rd to 5th grades. Table 3 Comparison analysis across gender and grades on the Indonesian data of the PSWQ-C Original (14 items) version Shortened (11 items) version Aspects M SD p M SD p N = 653 Gendera 13.9 5.18 0.018* 7.68 5.4 0.024* Girls (n= 360) 14.45 5.36 8.20 5.67 Boys (n = 293) 13.49 4.99 7.25 5.14 Gradesb 0.335 0.613 3rd (n = 214) 14.33 5.21 7.93 5.81 4th (n = 206) 13.59 5.02 7.41 5.29 5th (n = 233) 13.83 5.27 7.68 5.11 Notes: a Independent t-test was applied; b One way ANOVA. *Significant at p< 0.05 As the study was performed on a large non-clinical Indonesian sample, we reported the norms of the PSWO-C Indonesian data presented as cumulative percentage and cut off points for 10 equal groups using the overall and genderbased data, measured by the original as well as the shortened versions of the PSWQ-C (see Table 4). Table 4 Cumulative percentage and percentile of the PSWQ-C Indonesian data Original (14-item) PSWQ-C Shortened (11-item) PSWQ-C Score N (653) Boys (360) Girls (293) N (653) Boys (360) Girls (293) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 33 Percentile 10 20 30 40 50 60 70 80 90 - - 0.2 1.2 1.8 3.5 6.1 8.1 11.2 20.1 29.2 37.5 43.8 50.4 57.6 64.3 68.8 76.7 80.9 85.1 89.1 91.6 93.9 96.2 96.9 97.5 98.6 99.1 99.2 99.7 99.8

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89.4 92.2 94.9 96.2 97.3 98.6 99.3 99.3 99.7 99.7 100.0 1 3 4 5 7
9 10 12 15 10 12 14 1 2 4 5 6 8 1 3 4 6 8 9 11 13 17 Discussion
Worry in children is common. However, studies on worry in
Indonesian children are scarce due to unavailability of reliable
measure in Indonesian language (Bahasa Indonesia) prior to the
study. This study aims to evaluate the Indonesian version of
PSWO-C as a measure of worry on children and to assess worry in
a large non-clinical sample of Indonesian children. The principal
component analysis that was performed on the 14 items of the
PSWQ-C Indonesian data resulted in two-factor structure
separating the 11 favorable items from the 3 unfavorable items.
When one-factor structure was instructed, 11 items were loaded
well into one component. The internal consistency of the shortened
(11 items) version of the Indonesian PSWQ-C is better than the
original (14 items) version. These findings aligned with previous
study reported two -factor structure of the PSWQ- C (Pestle et al.,
2008) and also with previous report on the one -factor structure of
the PSWQ- C yielded the shortened (11 items) version of PSWQ-C
(Chorpita et al., 1997; Kang et al., 2010; Muris et al., 2001).
Findings from our study suggest that the shortened (11 items)
Indonesian translation of the PSWQ-C demonstrated better
psychometric properties than the original (14 items) version
because when the three problematic items were excluded, the
reliability of the scale was increased significantly (from a = 0.665
to a = 0.808). Thus, we recommend the shortened version of the
Indonesian translation of PSWQ-C to be used in the future studies
to assess worry in Indonesian children. In assessing worry in non-
clinical Indonesian children, our study revealed gender differences
in worry on children but not across grades. Worry was higher on
young girls than young boys whether it was assessed using the
original or shortened versions of the Indonesian PSWQ-C. This
finding can be understood from the perspective of sex roles which
indicates worry behavior are more accepted among girls than boys.
Moreover, girls tend to have high levels of stress that lead them
prone to worry (Zalta&Chambless, 2008). Previous studies reported
similar findings that girls scored higher than boys in the PSWQ-C
(Chorpita et al., 1997; Esbjørn, Reinholdt-Dunne, Caspersen,
Christensen, & Chorpita, 2013; Muris et al., 2001; Păsărelu et al.,
2016; Pestle et al., 2008). In contrast, these findings did not
support similar study from Asian sample which reported no
significant gender differences in Korean children (Kang et al.,
2010). In view of grades comparison, we assumed that students of
the higher grades reported higher scores on worry than students of
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lower grades, as indicated by in the Korean samples (Kang et al., 2010). However, our findings suggested the opposite that 63 worries among students of 3rd to 5th grades were not significantly differ. Unfortunately, the schools could not supply the age data to enable comparison analysis across age. These findings showed that worry is common in children and should not be undermined in the school-aged children. Parents and teachers often disregard worry in older children and pay more attention in helping younger children dealing with their worries. By doing so, parents and teacher might not realize their contribution in the development of anxiety and depression in the higher grades' students. As worries had been reported significantly higher on adolescents than younger children (Pestle et al., 2008), findings of the present study highlight the need to develop an anxiety and depression prevention program that also involve schools and parents. Conclusions The study showed that the shortened (11-items) version PSWQ-C Indonesia demonstrated a reliable measure that can be applied in future studies involving children in 3rd to 5th grades. Gender differences were found in worry on young Indonesian children. Worry is significantly higher on young girls than young boys participating in the study. However, worry does not differ across children in the 3rd to 5th grades as indicated in the study. It should be bear in mind that this study involved limited participants living in the capital city of the Central Java province. For future study it is expected to involve young participants from Sumatra, Kalimantan, Sulawesi, and the east Indonesia region which certainly will represent Indonesia. However, as no measure on children's worry was available prior the study, this study finding support the use of PSWQ-C Indonesia in future studies. Disclosure The authors declare no conflict of interests. References Beesdo, K., Bittner, A., Pine, D. S., Stein, M. B., Höfler, M., Lieb, R., & Wittchen, H.U. (2007). Incidence of social anxiety disorder and the consistent risk for secondary depression in the first three decades of life. Archives of General Psychiatry, 64(8), 903-912. http://doi.org/10.1001/archpsyc.64.8.903 Brown, T. A., Barlow, D. H., & Liebowitz, M. R. (1994). The empirical basis of generalized anxiety disorder. American Journal of Psychiatry, 151(9), 1272-1280. Brown, T. A., Campbell, L. A., Lehman, C. L., Grisham, J. R., & Mancill, R. B. (2001). Current and lifetime comorbidity of the DSM-IV anxiety and mood disorders in a large clinical sample. Journal of Abnormal Psychology, 110(4), 585–599. http://doi.org/10.1037/0021-843X.110.4.585 Chorpita, B. F., Tracey, S. A., Brown, T. A., Collica, T. J., & Barlow, D. H. (1997). Assessment of worry in children and adolescents: An adaptation of the Penn State Worry Questionnaire. Behaviour Research and Therapy, 35(6), 569-581. http://doi.org/10.1016/S0005-7967(96)00116-7 Esbjørn, B. H., Reinholdt-Dunne, M. L., Caspersen, I. D., Christensen, L. B., & Chorpita, B. F. (2013). Penn State Worry Questionnaire: Findings from normative and clinical samples in Denmark. Journal of Psychopathology and Behavioral Assessment, 35(1), 113-122. http://doi.org/10.1007/s10862-012-9320-7 Harland, P., Reijneveld, S. a, Brugman, E., Verloove-Vanhorick, S. P., & Verhulst, F. C. (2002). Family factors and life events as risk factors for behavioural and emotional problems in

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