

Title	Transcultural and psychometric validation of the Dispositional Resilience Scale (DRS-15) in Chinese adult women
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BRIEF COMMUNICATION

Transcultural and psychometric validation of the Dispositional Resilience Scale (DRS-15) in Chinese adult women

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9 Abstract

Purpose The aim of this study was to report translation
and transcultural adaptation of the 15-item Dispositional
Resilience Scale in traditional Chinese (C-DRS-15) and
Activational transculturate its psychometric properties.

14 *Methods* The DRS is a self-report instrument that measures 1402 psychological hardiness. We followed an international stan-16 dard of cross-cultural translation and validation of patient-

17 reported outcome measures to create the Chinese version.

18 Then, the translated C-DRS-15 was validated on 542 Chinese

19 women from a population-based sample in Hong Kong.

20 Results The internal consistency and criterion-related

21 validity were investigated. Exploratory and confirmatory

22 factor analysis revealed that the C-DRS-15 was supported by

a modified three-factor structure in our Chinese sample
(RMSEA = .06, CFI = .94, TLI = .92, and SRMR = .06).

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The reliability (Cronbach's α coefficient = .78) and validity25were satisfactory. Total resilience score was negatively26correlated with depression (p < .001), with non-depressed27women scoring higher on the C-DRS-15.28*Conclusions* The C-DRS-15 was demonstrated to be a29reliable and valid measurement to assess hardiness in30Chinese women.32

KeywordsPsychometric validation · Hardiness ·33Resilience · Chinese · Psychological health34

Background

Resilience research has emerged in social science and 36 medical disciplines during the twenty-first century [1–3], 37

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Methods

52 Translation and transcultural adaptation

women in Hong Kong.

53 Transcultural adaptation was consistent with the interna-54 tional standard of cross-cultural translation and validation 55 of patient-reported outcome (PRO) measures (MAPI 56 Institute: http://www.mapi-institute.com). The DRS-15 was 57 translated by two native Chinese translators into the 58 15-item Dispositional Resilience Scale in traditional Chi-59 nese (C-DRS-15). The consensus version was translated 60 back into English, and the two English versions were 61 compared for consistency. The first C-DRS-15 was obtained after modification and refinements on semantic 62 63 equivalence (same meaning with grammatical consider-64 ation), idiomatic equivalence (same expression), experi-65 ential equivalence (same application), and conceptual equivalence (validity of the concept) in the Chinese context 66 67 [10]. Five Chinese adult women tested the first C-DRS-15, 68 undergone cognitive debriefing via face-to-face interviews, 69 and evaluated on completion time, length, relevance, 70 clarity, and comfort of the instrument. Their comments 71 were used for further item modification and refinements. 72 The final C-DRS-15 was obtained thereafter and pre-tested 73 on ten Chinese adult women to ensure administration fea-74 sibility to the public.

and resilience can promote positive mental health out-

comes and psychological well-being [4]. The Dispositional

Resilience Scale (DRS) is a measure of psychological

hardiness, considered as a personality style to differentiate

individuals under stress based on commitment towards life,

control of life, and willingness to overcome challenges [5].

The original 45-item DRS scale was developed by Bartone

[6], and later reduced to 30 and 15 items with satisfactory

psychometric properties [7–9]. This study is to report the

translation and transcultural adaptation of the 15-item DRS

to traditional Chinese and evaluate its psychometric prop-

erties in a population-based sample of Chinese adult

75 Psychometric validation

76 Two-stage systematic stratified sampling was applied on 77 the data from a population-based household survey by the 78 Census and Statistics Department in Hong Kong from April 79 to August 2012. Addresses were first stratified according to 80 geographical area by random sampling with fixed sampling 81 intervals and non-repetitive random numbers. In the second 82 stage, Chinese women aged 18 or older in each household 83 residing in the selected stratum were randomly selected as 84 respondents. Response rate was 68 % (n = 550). Non-

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participation encompassed both failure to contact potential 85 respondents (n = 89) and refusals to respond (n = 164). 86 Written consent was obtained from all respondents, and the 87 study was approved by the University of Hong Kong/ 88 Hospital Authority Hong Kong West Cluster Joint Insti-89 90 tutional Review Board for both the cognitive debriefing 91 (UW 12-047) and psychometric validation studies (UW 12-111). 92

The respondents anonymously answered the self-93 94 administered questionnaire comprised of the C-DRS-15, the 95 Chinese Edinburgh Depression Scale (C-EDS), and sociodemographics. The C-DRS-15 comprises 15 items cover-96 97 ing three subscales: commitment, control, and challenge. All items are listed in Table 3 and rated on 4-point Likert 98 scale (0 = not at all true, 1 = slightly true, 2 = quite true, 99 100 3 = completely true). The total score ranges from 0 to 45, with a higher score representing greater psychological har-101 diness. The C-EDS measures depressive symptoms and 102 comprises 10 questions rated on 4-point Likert scale, with 103 total score ranging from 0 to 30 and cut-off score of 9/10 104 recommended for Chinese [11]. Self-perceived resilience 105 was assessed by yes-no question: "Do you think you are a 106 person who can positively face difficulties and recover, 107 learn, and grow from them?" Research assistant collected 108 the completed questionnaires in a sealed envelope. 109

Construct validity of the C-DRS-15 was examined by 110 exploratory factor analysis (EFA) and confirmatory factor 111 112 analysis (CFA) [12]. Prior to splitting the sample into the training and validation sets, two cases with more than 10%113 of missing data and six cases who were non-Chinese women 114 115 were removed. In the training set (n = 261), we performed EFA with principal component extraction, scree plot 116 assessment, geomin (oblique) rotation, and factor loadings 117 118 examination. In the validation set (n = 281), CFA was used to assess the factor structure. The three-factor structure 119 (commitment, control, and challenge) hypothesized in the 120 original DRS was also assessed for its appropriateness in 121 Chinese population. Internal consistency was assessed using 122 123 Cronbach's α coefficient. Finally, convergent validity was 124 examined by comparing the scores of depressed and non-125 depressed women with two-independent samples t test and assessing the difference by the Cohen's *d* effect sizes [15]. 126 Depression was chosen for assessing convergent validity, 127 because studies have reported that depressed women were 128 129 less resilient than non-depressed women [4, 13, 14]. Data 130 analysis was performed using Mplus 7.0 [16].

Results

The sample comprised 550 female participants. Almost all 132 were Chinese (n = 544, 98.9 %). Participants' character-133 istics are shown in Table 1. 134

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acceptable at 3.8 min.

ranged from 31 to 81 %.

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Author Proof

Table 1 Participant characteristics (n = 542)

C-DRS-15 required refinement during the translation

process, and participants commented that the items were

relevant and they felt comfortable completing the ques-

tionnaire. The mean completion time of the scale was

ment factor comprised six items describing individual's

vitality, strength, capacity, and promptness when facing

hardship. The control-adaptation factor comprised six

items of hardship resistance and coping, and difficulties

with minimal changes. The positivity factor comprised

three items describing individual's positive view of things

and confidence in managing adverse events. The percent-

age of variance explained by each item on C-DRS-15

Table 2 shows the EFA factor loadings. The commit-

	n (%)
Age (years)	
Under 20	63 (11.6)
20–29	133 (24.4)
30–39	108 (19.9)
40–49	114 (21.1)
50–59	70 (12.8)
60 or over	54 (9.9)
Education	
None or below primary	37 (6.8)
Primary	51 (9.4)
Secondary	324 (59.6)
Tertiary or above	131 (24.1)
Employment status	
Employed	229 (42.1)
Housewives	158 (29)
Searching for jobs	25 (4.5)
Retired	29 (5.3)
Studying (full time)	102 (18.8)
Marital status	
Single	206 (37.9)
Married or cohabiting	286 (52.5)
Separated/divorced/widowed	50 (12.8)
Presence of chronic illness ^a in the past year	132 (24.3)
Presence of financial difficulties in the past year	98 (18)
Self-perceived hardiness by one yes-no question	494 (90.8)
Chinese Dispositional Resilience Scale (C-DRS-15) total score (mean [SD])	22.82 (6.2)
Edinburgh Depression Scale (EPDS) total score (mean [SD])	7.0 (5.4)

^a Chronic illness refers to medical diagnosed diseases such as heart disease, hypertension, diabetes mellitus, asthma, chronic obstructive pulmonary disease, neurological diseases, headache, or chronic pain

The factor structure was assessed by CFA (Table 3). The 150 originally hypothesized three-factor model (Model A) dem-151 152 onstrated unsatisfactory goodness of fit indices (RMSEA = .12, CFI = .67, TLI = .60, and SRMR = .09).153 After allowing for error covariances (Model B), the fit indices 154 improved but remained unsatisfactory (RMSEA = .08, 155 CFI = .86, TLI = .82, and SRMR = .07). The EFA-derived 156 three-factor structure (Model C) with correlated error 157 covariance had adequate goodness of fit (RMSEA = .06, 158 CFI = .94, TLI = .92, and SRMR = .06). The standardized 159 estimates and path diagram of Model C are shown in Fig. 1. 160

Cronbach's α coefficient was .78 (commitment subscale, 161 $\alpha = .78$; control-adaptation subscale, $\alpha = .75$; positivity 162 subscale, $\alpha = .61$), which demonstrated moderate to high 163 internal reliability [17]. Criterion-related validity was evi-164 dent in the significant differences between the commitment 165 score (depressed 8.78 \pm 3.6; non-depressed 9.57 \pm 3.31, 166 p = .02), positivity score (depressed 5.34 ± 1.96; non-167 depressed 6.22 \pm 1.9, p < .001), and total score (depressed 168 24.28 ± 6.22 ; non-depressed 26.47 ± 5.81 , p < .001). The 169 170 Cohen's d effect sizes for the commitment, positivity, and C-DRS-15 scales were small to moderate with a range from 171 0.23 to 0.46. There was no significant difference in control-172 adaptation score (depressed 10.14 ± 3.47 ; non-depressed 173 10.7 ± 3.25 , p = .07). In general, non-depressed women 174 scored higher than depressed women on the C-DRS-15. 175

Discussion

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This study revealed that the original three factors of the 177 DRS-15 were not reproduced in our Chinese sample. 178 Instead, C-DRS-15 with a modified three-factor structure 179 of commitment, control adaptation, and positivity was 180 valid and reliable. From a statistical perspective, the 181 modified structure was developed with consideration of 182 EFA results, goodness of fit statistics, and factor loadings 183 during CFA. Marginal alpha coefficient for the positivity 184 subscale (.61) was justified because of only three items. 185 Furthermore, criterion-related validity was demonstrated 186 with C-DRS-15 scores negatively correlated with 187 depression. 188

189 From a theoretical perspective, the modified structure conveys meanings for Chinese women in our study. The 190 191 commitment factor includes items from the original commitment, control, and challenge factors. Our findings imply 192 that hardy Chinese women consciously integrate commit-193 ment, control, and challenge in devoting themselves to 194 strategies to manage difficulties, solve problems, make 195 decisions, and set goals while promptly deal with stressful 196 events. The integration is consistent with the Chinese 197 Connor-Davidson Resilience Scale [18] in Chinese indi-198 199 viduals. Furthermore, Chinese take a holistic approach in



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Items		Commitment	Control adaptation	Positivity
1	Most of my life gets spent doing things that are meaningful	0.72	0.03	0.09
7	I really look forward to my work activities	0.50	0.30	0.08
10	Most days, life is really interesting and exciting for me	0.66	0.05	0.09
2	By working hard you can nearly always achieve your goals	0.82	0.05	0.04
5	Changes in routine are interesting to me	0.47	0.06	0.33
9	I enjoy the challenge when I have to do more than one thing at a time	0.46	0.01	0.29
6	How things go in my life depends on my own actions	0.37	0.39	0.05
12	It is up to me to decide how the rest of my life will be	0.21	0.53	0.11
15	My choices make a real difference in how things turn out in the end	0.01	0.83	0.04
3 (R)	I don't like to make changes in my regular activities	0.23	0.27	0.01
11 (R)	It bothers me when my daily routine gets interrupted	0.05	0.42	0.03
14 (R)	I like having a daily schedule that doesn't change very much	0.10	0.65	0.01
4 (R)	I feel that my life is somewhat empty of meaning	0.02	0.03	0.71
8 (R)	I don't think there's much I can do to influence my own future	0.15	0.01	0.57
13 (R)	Life in general is boring for me.	0.09	0.16	0.60
Factor co	rrelations			
Commit	ment	1.00		
Control	adaptation	0.52	1.00	
Positivit	у	0.21	0.001	1.00

Table 2 Factor loadings of the C-DRS-15 after geomin rotation (n = 261)

Italic value indicates the highest factor loading of each item. The DRS-15 items are copyrighted material and may not be reproduced without permission. Information on use is available at www.kbmetrics.com

(R) indicates negatively keyed items

Table 3 Goodness of fit indices of different models $(n = 28)$

Models	X^2	df	RMSEA	CFI	TLI	SRMR
Model A (original three-factor model)	428	87	.12	.67	.60	.09
Model B (original three-factor model with error covariance)	221	80	.08	.86	.82	.07
Model C (EFA-derived three-factor model with error covariance)	147	80	.06	.94	.92	.06

RMSEA root-mean-square error of approximation, CFI comparative fit index, TLI Tucker-Lewis index, SRMR standardized root-mean-square residual

responding to daily demands [19], and this supports how
commitment, control, and challenge cannot be isolated
when hardy Chinese are dealing with stressful situations.

203 The control-adaptation factor contains items from the 204 original control and challenge factors and reflects individ-205 ual acceptance, suppression of changes, and restraint cop-206 ing in the Chinese context. Chinese individuals believe in 207 fate, with life events predetermined by external forces [20]. 208 They perceive that individual efforts exert little influence 209 on outcomes and prefer minimal changes when facing 210 challenges since changes may tremendously affect the family. For Chinese women, "family harmony", "satisfy-211 212 ing marriage", and "having blessed, well-behaved and high-achieving children" are significant values [21, 22]. 213 214 Therefore, adaptation is the essence of managing stress and 215 challenge in Chinese women.

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216 The positivity factor serves as the cognitive resilient element in managing adverse events while reflecting peo-217 ples' positive expectations in life. These people are more 218 optimistic and have confidence in overcoming problems 219 and controlling their own future. Positive perceptions of 220 adverse events and personal resources help in enhancing 221 individual capability to deal with stressful circumstances 222 223 [23, 24].

224 Despite our sample covered a wide spectrum of demographics in Hong Kong, study participants were Chinese 225 women. Therefore, findings cannot be generalized to men. 226 Also, data unavailability did not allow the examination of 227 test-retest reliability, but such was reported high in DRS-228 15 [9]. Finally, the study relied on self-reported data col-229 lected at one time point, so follow-up data would be of 230 value in examining whether hardiness results are consistent 231



Fig. 1 Standardized estimates in a confirmatory factor analytic model of the C-DRS-15. CM commitment, CA control adaptation, PO positivity

232 in demonstrating the dispositional traits of individuals in 233 Chinese society.

234 Conclusions

235 The present study is the first to confirm that the C-DRS-15, 236 with modified factor structure from the original English 237 DRS-15, is a reliable and valid measurement tool to eval-238 uate hardiness in Chinese women.

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243 Conflict of interest Paul Bartone receives royalties from the DRS-244 15. The remaining authors declare that they have no competing 245 interests.

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