The Racism, Acceptance, and Cultural-Ethnocentrism Scale (RACES):acceptance of diverse groups.Measuring Racism in AustraliaSeveral measures of racist

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Abstract

No existing scale has been designed for, and validated in, the Australian context which can objectively evaluate the levels of general racist attitudes in Australian individuals or groups. Existing Australian measures of racist attitudes focus on single groups or have not been validated across the lifespan. Without suitable instruments, racism reduction programs implemented in Australia cannot be appropriately evaluated and so cannot be judged to be making a meaningful difference to the attitudes of the participants. To address the need for a general measure of racial, ethnic, cultural, and religious acceptance, an Australian scale was developed and validated for use with children, adolescents, and adults. The Racism, Acceptance, and Cultural-Ethnocentrism Scale (RACES) is a 34-item self-report instrument measuring explicit racist attitudes, consisting of three interdependent subscales (Accepting Attitudes – 12 items; Racist Attitudes – 8 items; Ethnocentric Attitudes – 4 items) and a 10-item measure of social desirability. The current chapter summarises the mixed methods approach to the development and evaluation of the novel scale, and reports on the reliability and validity data for children, adolescents, and adults from diverse racial, ethnic, cultural, and religious backgrounds around Australia. The results of examinations of psychometric properties, including latent structure, internal consistency, test-retest reliability, convergent validity, discriminant validity, and predictive validity, are discussed. Utilised analytical techniques include qualitative thematic analysis of interviews and focus groups, unidimensional and multidimensional Rasch (Item Response Theory) analyses, and various Classical Test Theory analyses.

Introduction

Australians live in a country with unprecedented racial, ethnic, cultural, religious, and linguistic diversity, an artefact of its establishment post 1788 upon a platform of immigration and, from the last decades of the 20th century, policies of multiculturalism. A by-product of this diversity has been increasing reports of racist attitudes and incidents, as evidenced by longitudinal multi-state survey data (Dunn, Forrest, Pe-Pua, Hynes, & Maeder-Han, 2009).

Globally, racism research has grown substantially over the past decade, consistently showing positive associations with an array of negative mental health outcomes. Perceived racism has pervasive negative physical and psychological effects in various minority racial and Indigenous groups (Chou, Asnaani, & Hofmann, 2012; Harrell, Hall, & Taliaferro, 2003; Paradies, 2006; Pascoe & Richman, 2009; Williams, Neighbors, & Jackson, 2008). Most of this research has been conducted with victims, with less addressing the factors that produce racism or exploring questions related to low levels of

Several measures of racist attitudes exist, but many concentrate on anti-African attitudes and are validated only for US populations. Given differences in context and cultural milieu between the US and Australia (Pedersen, Beven, Walker, & Griffiths, 2004), several Australian measures have been developed. However, these generally focus on one group (*e.g.*, Indigenous Australians; Pedersen, *et al.*, 2004) and/or have not been empirically developed and appropriately validated (*e.g.*, Dunn & Geeraert, 2003). For youth as for adults, the available instruments are limited. There is hence a dearth of developmentally appropriate tools for accurately measuring racism across groups in Australia. As no Australian instrument has been developed utilising advanced psychometric analyses such as Item Response Theory (IRT), nor appropriately validated across racial or age groups, the accurate evaluation of interventions is inhibited. No scale currently exists capable of objectively evaluating the levels of general racist attitudes in individuals or groups in an Australian context, and hence, the effectiveness of racism-reduction programs cannot be assessed quantitatively. The work detailed within this chapter aimed to address this gap.

Development of RACES

The research we describe here explored racism as experienced by Australians from diverse backgrounds. Using an accepted scientific process of scale development (DeVellis, 2012), an explicit measure of racial, ethnic, cultural, and religious acceptance – the Australian Racism, Acceptance, and Cultural-Ethnocentrism Scale (RACES) – was developed and validated with children, adolescents, and adults with an overarching goal for the measure to be appropriate for evaluating the effectiveness of anti-racism and pro-diversity initiatives implemented in Australian schools and throughout the community.

Contemporary understandings of racism stemming from cognitive psychology offer an important distinction between implicit and explicit attitudes, with implicit attitudes proposed to reflect 'true' attitudes; to lack conscious awareness; to be unable to be directly perceived; to be unintentionally and automatically activated by the presence of an attitude object; and therefore require indirect measurement via specialised tools (Dovidio, 2001; Greenwald, McGhee, & Schwartz, 1998). However, for our purposes, the development of a measure of explicit racist attitudes was considered better suited for community use and so of greater utility to evaluate anti-racism and pro-diversity initiatives. In the initial stages of the research, we used in-depth semi-structured interviews and focus groups to explore conceptualisations of racism, and in conjunction with the conceptual literature, used this data to develop the preliminary items. Secondary stages examined the underlying latent factor structure of the measure across multiple age groups. Final stages validated the psychometric properties of the novel scale in Victorian primary school children and adolescents and adults from the Australian community. Ethics

approval was provided by Monash Human Research Ethics Committee. Descriptive statistics utilised throughout the research are provided in Table 1.

Table 1

Descriptive Statistics Split by Data Set

| | | | | | Usable | |
|-------------|----------------|-----------|---------------------|-------|----------------------|--|
| | | Total | Ac | tual | Response Rate | |
| | Qualitative | 30 | 3 | 30 | 100% | |
| Samula Siza | Primary School | 296 | 2 | 13 | 72% | |
| Sample Size | 15-20 Years | 182 | 1 | 47 | 81% | |
| | Community | 402 | 2 | 63 | 65% | |
| | | M | SD | Range | N | |
| | Qualitative | 16.77 | 1.76 | 14-22 | 30 | |
| | Primary School | 11.34 | 0.71 | 10-13 | 271 | |
| Age (Years) | 15-20 Years | 18.31 | 1.41 | 15-20 | 147 | |
| | Community | 23.24 | 9.72 | 15-71 | 263 | |
| | | Male | Fei | nale | N | |
| | Qualitative | 15 |] | 15 | 30 | |
| Candan | Primary School | 151 (56%) | 151 (56%) 120 (44%) | | | |
| Gender | 15-20 Years | 46 (31%) | 101 | (69%) | 147 | |
| | Community | 71 (27%) | 192 | (73%) | 263 | |
| | | Australia | Ot | her | N | |
| | Qualitative | 12 (40%) | 18 (| 60%) | 30 | |
| Country of | Primary School | 237 (87%) | 35 (| 13%) | 272 | |
| Birth | 15-20 Years | 91 (62%) | 56 (| 38%) | 147 | |
| | Community | 182 (69%) | 81 (| 31%) | 263 | |

Note. Various participants did not provide complete demographic data.

Qualitative research was conducted from December 2011 to March 2012 on young Australian conceptualisations of, and their experiences with racism; the data was collected through the interviews and focus groups. Consequently, the items developed can be thought of as representing the multidimensional nature of contemporary racism in Australia, spanning a number of theoretical positions, including symbolic racism (Kinder & Sears, 1981), modern racism (McConahay, 1983), aversive racism (Gaertner & Dovidio, 1977; Kovel, 1970), and more recently, subtle and blatant prejudice (Pettigrew & Meertens, 1995) and colour-blind racism (Neville, Lilly, Lee, Duran, & Browne, 2000).

The purpose of the final instrument was to inform anti-racism and pro-diversity initiatives. Items were therefore designed to measure acceptance of difference and racism viewed along a continuum. An initial item pool of 420 statements was developed from the qualitative data and the extant racism literature, with items reviewed for appropriateness, comprehensiveness, redundancy, and clarity. The item pool was reviewed by two experts in the racism field (one of Indigenous Australian and Chinese background; one non-Indigenous Australian background) and consequently reduced in number. The initial scale contained 40 statements covering 14 themes (see Table 2 for further detail): 15 items with higher scores indicating greater acceptance and 25 items with higher scores indicating lower acceptance. Items were reworded to ensure a balance of positively and negatively worded items, to avoid response bias due to the sensitivity of the attitudes under evaluation (Schriesheim & Hill, 1981; Schweizer & Schreiner, 2010) and to explore both positive (acceptance) and negative (racism) attitudes.

A 10-item version of the Marlowe-Crowne Social Desirability Scale (MCSDS; Fischer & Fick, 1993; Strahan & Gerbasi, 1972) was also amended and included in the preliminary scale (MCSDS-A; Grigg & Manderson, 2015) to assess self-presentation bias in Australia. Socially desirable responding was considered important to assess and is often included in addition to the primary measure of interest when scales address potentially uncomfortable or anxiety provoking topics (Anastasi & Urbina, 1996; Loewenthal, 2001). This is especially a concern when measuring sensitive concepts, including racism (Phillips & Ziller, 1997).

The items were randomised, with each eliciting a response on a four point Likerttype scale, from "Strongly Disagree" to "Strongly Agree" (half reverse scored). A neutral option was omitted to ensure ambivalent participants offered a meaningful response (Nowlis, Kahn, & Dhar, 2002). The preliminary scale was reviewed by six primary school principals and an experienced clinical child psychologist, then by participants in three focus groups (14-22 years, N = 17) (see Grigg & Manderson, in press). A preliminary scale reliability analysis was performed. Cronbach's Alpha was very high (.94). Four items had low item-total correlations (< .20), but none were removed as all were considered important. The preliminary scale was suitable for children with a Grade 4 reading level (as per Gunning Fog and Flesch Kincaid Grade level indexes) and was pilot tested with eight children aged 9-12 years to ensure item clarity and developmental appropriateness. Cognitive interviewing techniques (Willis, 2005) were utilised to ensure that young children could comprehend the intended meaning and appropriately respond to each question. No items required removal, but some were re-worded.

Table 2Preliminary Scale Item Theme Labels and Content

| Theme Label | Theme Content |
|---------------------|--|
| Comfort | How comfortable the respondent feels with people from their own and other racial, ethnic, cultural, and religious backgrounds. |
| Safety | How safe the respondent feels with people from their own and other racial, ethnic, cultural, and religious backgrounds. |
| Acceptance | How accepting the respondent is of people from their own and other racial, ethnic, cultural, and religious backgrounds. |
| Treatment | How the respondent treats people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Friendships | How the respondent interacts socially with people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Understanding | How well the respondent believes they understand people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Racist Acts | Racist acts the respondent performs towards people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Accepting Acts | Accepting acts the respondent performs towards people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Treatment | Beliefs the respondent holds about how people from their own and other racial, ethnic, cultural, and religious backgrounds should be treated. |
| Structural Racism | Beliefs the respondent holds about structural racism involving people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| School Related | Beliefs the respondent holds about racism within schools involving people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Assimilation | Beliefs the respondent holds about the need for people from their own and other racial, ethnic, cultural, and religious backgrounds to assimilate into Australian society. |
| Existence of Racism | Beliefs the respondent holds about the existence of racism in Australia involving people of their own and other racial, ethnic, cultural, and religious backgrounds. |
| Pre-Judgment | How much the respondent pre-judges people of their own and other racial, ethnic, cultural, and religious backgrounds. |

Refinement of RACES

Principal Components Analyses (PCA), Exploratory Factor Analyses (EFA), and Confirmatory Factor Analyses (CFA) were utilised to refine the initial 40-item RAC-ES drawing upon the Primary School, 15-20 years, and Community data sets outlined in Table 1. Primary school participants were 296 students enrolled in years five or six at six primary schools in a growth corridor in southeast Melbourne, Australia, recruited via participation in a pro-diversity and anti-racism initiative. Community participants were

402 community individuals aged 15 years or older, recruited nationally via newspaper, radio, and online advertising. Responses were retrieved from an online survey database; four additional hard copy surveys were entered after online data collection ceased. Because the data set for adults 21+ years failed to meet minimum statistical assumptions, only results for young people 15-20 years and Community data sets are presented.

Principal Components Analysis

Data were examined using PCA to produce an initial empirical summary (Tabachnick & Fidell, 2007). Oblimin rotation was performed with the Primary School data set to estimate the number of components, absence of multicollinearity, and factorability of the correlation matrices. Eleven components with initial Eigenvalues above one were extracted. None were internally consistent or well defined by the variables (highest Squared Multiple Correlation .24). Conversely, Communality values were adequate: the smallest was .53, above recommended minimum of .40 (Costello & Osborne, 2005). Sampling adequacy was acceptable: the Kaiser-Meyer-Olkin measure was .83, above recommended minimum of .60 (Tabachnick & Fidell, 2007), and Bartlett's Test of Sphericity was significant (p<.001). Given these indicators, PCA appeared suitable with all 40 items. Inspection of the Scree Plot indicated the existence of between one to five components. Each of the first four factors explained more than 5% of the variance, considered to be a cut off for useful factors (Polit & Beck, 2003), with explained variance of 20.90%, 8.91%, 6.13%, and 5.04% respectively.

Exploratory Factor Analysis

An EFA was considered appropriate to perform additional analyses (Tabachnick & Fidell, 2007) and was conducted with each of one, two, three, and four factors. Solutions were examined using Oblimin rotations of the factor loading matrix. All cross-loading items above .32 and items with factor loadings less than .32 were removed (Tabachnick & Fidell, 2007). Items with Communalities below .20 were removed, rather than below .40, to enable CFA to confirm the underlying factor structure and Rasch analysis to re-confirm the underlying latent structure and additionally to remove inconsistent items. The one factor solution appeared to be a poor fit, accounting for 19.03% of the variance after extraction. The two factor solution initially accounted for 26.27% (19.20% and 7.07%) and the final solution (17 and 7 items) 34.91% (26.57% and 8.35%) of variance. The three factor solution initially accounted for 30.99% (19.31%, 7.18%, and 4.50%) and the final solution (15, 8, and 4 items) 37.30% (24.16%, 7.82, and 5.33%) of variance. The four factor solution initially accounted for 34.65% (19.38%, 7.26%, 4.56, and 3.46%) and the final solution (15, 9, 6, and 4 items) 37.66% (20.65%, 7.99%, 5.06%, and 4.05%) of variance.

tion, and (3) small amount of variance (*i.e.*, < 5% cut off) accounted for by final factor in the four factor solution. The three factor solution consisted of Accepting Attitudes (15 items), Racist Attitudes (8 items), and Ethnocentric Attitudes (4 items), subscales considered to measure underlying attitudes reflecting out-group acceptance; out-group denigration; and in-group favouritism and loyalty.

Confirmatory Factor Analysis

The unidimensionality of each subscale (AAS, RAS, and EAS) was examined ising a separate congeneric (one factor) measurement model CFA for all data se mary School, Community, and 15-20 years). The $\chi 2$ statistic indicated poor fit f number of analyses. However, this statistic is sensitive to sample size and a num alternative, and less conservative, fit indices are available (Tabachnick & Fidell, To avoid model misspecification, multiple indices of fit were examined using with accepted cut-off criteria (Hu & Bentler, 1999). CMIN/df is considered poor fit a 3.00 (Hu & Bentler, 1995); RMSEA poor fit above .10 (Tabachnick & Fidell, 2 and good fit below .08 (Browne & Cudeck, 1993); IFI good fit above .90 (Marsh Hau, 1996); and SRMR good fit below .10 (Kline, 2004)NY</pub-location><pu er>Guilford Press</publisher><urls></urls></record></Cite></EndNote>.

Three distinct internally consistent factors underlie responses to the 25-item across primary school children, adolescents, and adults. A three factor model of ing Attitudes, Racist Attitudes, and Ethnocentric Attitudes was confirmed. Fit ir and item factor loadings for the three subscales for each data set are displayed retively in Tables 3 and 4 below.

Table 3

| | Subscale | χ^2 | <u>df</u> | р | CMIN/df | RMSEA | IFI | SRMR |
|-------------------|---------------------------|----------|-----------|----------|-------------------|-------|-------------------|------------------|
| | Accepting Attitudes | 177.65 | 65 | <.001*** | 2.73ª | .09ª | 0.86 | .07ª |
| Primary School | Racist Attitudes | 35.10 | 20 | .020* | 1.76 ^a | .06ª | 0.96ª | .05ª |
| | Ethnocentric Attitudes | 1.25 | 2 | .53ª | 0.63 ^a | <.01ª | 1.01 ^a | .02 ^a |
| | Accepting Attitudes | 137.82 | 65 | <.001*** | 2.12 ^a | .09ª | 0.92 ^a | .05ª |
| 15-20 Years | Racist Attitudes | 40.79 | 20 | .004** | 2.04 ^a | .08ª | 0.94ª | .06ª |
| | Ethnocentric Attitudes | 0.57 | 2 | .75ª | 0.29ª | <.01ª | 1.01ª | <.01ª |
| | Accepting Attitudes | 174.42 | 65 | <.001*** | 2.68 ^a | .08ª | 0.93 ^a | .05ª |
| Community | Racist Attitudes | 58.76 | 20 | <.001*** | 2.94ª | .09ª | 0.94ª | .05ª |
| | Ethnocentric Attitudes | 0.19 | 2 | .91ª | 0.09ª | <.01ª | 1.01 ^a | <.01ª |

RACES Subscales CFA Unidimensionality Results

Note. ^a denotes acceptable fit.

p < .05. p < .01. p < .001.

CFA Congeneric (One Factor) Measurement Model Factor Loadings for RACES Subscales

Table 4

| Subscal | e Item | Primary School | 15-20 Years | Community |
|---------|---|-------------------|-------------|-----------|
| | I accept people from all backgrounds. | .74 | .88 | .81 |
| | I have respect for people from all backgrounds. | .71 | .81 | .82 |
| | People from all backgrounds are equal. | .67 | .77 | .71 |
| | Having many different backgrounds in Australia is a good thing. | .64 | .69 | .66 |
| | People from all backgrounds should be treated equally. | .64 | .54 | .63 |
| | I live peacefully with people from all backgrounds. | .62 | .68 | .66 |
| AAS | I share with people from all backgrounds. | .62 | .79 | .77 |
| | I like talking with people from all backgrounds. | .60 | .74 | .72 |
| | I don't tease people because of their background. | .49 | .41 | .46 |
| | I stand up for people from all backgrounds. | .49 | .48 | .55 |
| | We should be taught about all backgrounds in school. | .48 | .55 | .49 |
| | I get upset if I hear racist comments about any background. | .47 | .48 | .48 |
| | I don't ignore people because of their background. | .43 | .59 | .66 |
| | People from some backgrounds are more violent than others. | .73 | .76 | .76 |
| | I don't trust people from some backgrounds. | .65 | .86 | .87 |
| | People from some backgrounds are not friendly. | .65 | .74 | .74 |
| RAS | People from some backgrounds are more likely to get into trouble than others. | .60 | .45 | .44 |
| | I don't understand people from some backgrounds. | .55 | .43 | .50 |
| | If people aren't happy in Australia they should go back to their own country. | .53 | .56 | .62 |
| | People from some backgrounds get more than they deserve. | .52 | .22 | .24 |
| | If people don't fit into Australian society they should change. | .43 | .53 | .51 |
| | I only feel comfortable around people from my background. | .73 | .83 | .78 |
| | I only feel safe around people from my background. | .67 | .76 | .81 |
| EAS | Only people from my background understand me. | .59 | .68 | .66 |
| | I only have friends from my background. | .50 | .53 | .55 |

Note. AAS = Accepting Attitudes Scale. RAS = Racist Attitudes Scale. EAS = Ethnocentric Attitudes Scale. Scale.

Item Response Theory Analysis. Both IRT and Classical Testing Theory (CTT) methods (DeVellis, 2012; Furr & Bacharach, 2008; Reise, Ainsworth, & Haviland, 2005) were integrated for evaluation (Embretson & Hershberger, 1999). A core assumption of Rasch and IRT analyses is the selection of an appropriate model for the data (Edelen & Reeve, 2007). A range of Rasch models can be utilised for rating scale type data.

For the purpose of the current research a Rating Scale Model Rasch analysis was considered most appropriate. Unidimensional analysis of the subscales was undertaken with Table 5 Unidimensional Model Fit Indices for RACES Subscales each subscale assessed separately and an evaluation of the fit of all items within each of the three previously mentioned subscales performed to assess the performance of eac RACES subscale as an independent scale. The underlying structure of RACES as mu scale was subsequently examined using multidimensional RSM analysis to assess the between item multidimensionality of RACES. The latter analysis enabled assessment of RACES as best understood and utilised as multi-scale tool with interdependent sul scales.

Data were collated and analysed in ACER ConQuest 3.0. Unidimensional analysis of the subscales as independent scales demonstrated that one item ("I don't tease peop because of their background") was a poor fit across all indices for both the 15-20 yea and the combined Community data sets, and was removed from further analysis. All other items for each data set and each subscale functioned adequately and demonstrat acceptable Infit and/or Outfit (0.5-1.5). Multidimensional analysis was utilised to con firm the underlying structure of the measure as multi-scale and demonstrated one iter ("I don't ignore people because of their background") to be of less than ideal Infit and Outfit for the Primary School data set. For both the 15-20 years and Community data sets, one item ("People from some backgrounds get more than they deserve") was less than ideal Infit and Outfit. All other items were acceptable Infit and/or Outfit for each data set. No items were removed due to acceptable values across most items and the balance of the current version of the scale (*i.e.*, 12 items indicating higher levels of ac ceptance or lower levels of racist attitudes and 12 items indicating lower levels of account tance or higher levels of racist attitudes). Unidimensional and multidimensional fit in ces for the final RACES for each data set are displayed in Tables 5-6 below.

| Sub | Item | | Infit | | Sta | ndardi Value | sed | | Outfit | | Standardised Value | | | | | |
|-------|---|------|-------|----------------|------------------|-----------------|-------|------|--------|-------------|-----------------------|------------------|-----|--|--|--|
| scale | псш | PS | 15-20 | С | PS | 15-20 | С | PS | 15-20 | С | PS | 15-20 | С | | | |
| | I have respect for people from all backgrounds. | 1.23 | 0.78 | 0.79 | 1.9 | -1.7 | -2.2 | 1.09 | 0.60 | 0.65 | 0.9 | -4.0ª | -4. | | | |
| | I accept people from all backgrounds. | 0.86 | 0.67 | 0.89 | -1.4 | -2.7ª | -1.1 | 0.85 | 0.51 | 0.73 | -1.5 | -5.2ª | -3. | | | |
| | Having many different backgrounds in Australia is a good thing. | 0.96 | 0.97 | 0.95 | -0.3 | -0.2 | -0.5 | 0.93 | 0.95 | 0.88 | -0.7 | -0.4 | -1 | | | |
| | People from all backgrounds should be treated equally. | 0.74 | 1.16 | 1.00 | -2.7ª | 1.2 | 0.0 | 0.72 | 1.10 | 0.93 | -3.0ª | 0.8 | -0 | | | |
| | I share with people from all backgrounds. | 1.47 | 0.63 | 0.68 | 4 .1ª | -3.2ª | -3.8ª | 1.33 | 0.69 | 0.89 | 2.8 | -2.9ª | -1 | | | |
| AAS | People from all backgrounds are equal. | 0.72 | 1.10 | 1.17 | -3.0ª | 0.6 | 1.6 | 0.72 | 0.89 | 1.08 | -2.8ª | -1.0 | 0 | | | |
| | I live peacefully with people from all backgrounds. I like talking with people from | 0.92 | 0.96 | 0.91 | -0.7 | -0.2 | -0.9 | 0.86 | 1.07 | 1.02 | -1.4 | 0.6 | 0 | | | |
| | all backgrounds. | 1.14 | 0.89 | 0.86 | 1.4 | -0.8 | -1.4 | 1.18 | 0.85 | 0.82 | 1.8 | -1.3 | -2 | | | |
| | We should be taught about all backgrounds in school. I get upset if I hear racist | 0.77 | 1.36 | 1.42 | -2.1ª | 2.5 | 3.8ª | 0.78 | 1.41 | 1.54ª | -2.3ª | 3.2 ^a | 5 | | | |
| | comments about any background. | 1.28 | 1.49 | 1.50 | 2.9 | 3.4ª | 4.8ª | 1.43 | 1.49 | 1.55ª | 3.8ª | 3.7ª | 5 | | | |
| | I stand up for people from all backgrounds. I don't ignore people because | 1.00 | | 1.26 | 0.1 | 2.9 | 2.7 | 1.03 | 1.33 | 1.30 | 0.4 | 2.6 | 3 | | | |
| | of their background. | 1.43 | 0.97 | 1.03 | 3.5 ^a | -0.2 | 0.3 | 1.37 | 1.13 | 1.00 | 3.3ª | 0.9 | 0 | | | |
| | People from some backgrounds are more violent than others. | 0.79 | 0.85 | 0.92 | -2.5ª | -1.5 | -1.1 | 0.79 | 0.85 | 0.91 | -2.2ª | -1.3 | -) | | | |
| | People from some backgrounds are not friendly. | 0.81 | 0.85 | 0.83 | -2.2ª | -1.4 | -2.3ª | 0.83 | 0.85 | 0.84 | -1.8 | -1.3 | - | | | |
| | People from some backgrounds are more likely to get into trouble than others. | 0.95 | 0.92 | 0.97 | -0.6 | -0.7 | -0.3 | 0.96 | 0.93 | 0.98 | -0.3 | -0.5 | -1 | | | |
| DAC | I don't trust people from some backgrounds. | 0.87 | 0.82 | 0.76 | -1.5 | -1.7 | -3.3ª | 0.87 | 0.80 | 0.75 | -1.3 | -1.8 | -3 | | | |
| RAS | If people aren't happy in Australia they should go back to their own country. | 1.18 | 1.15 | 1.16 | 1.9 | 1.4 | 1.9 | 0.15 | 1.15 | 1.16 | -1.4 | 1.3 | 1 | | | |
| | People from some backgrounds get more than they deserve. | 1.16 | 1.48 | 1. 5 1ª | 1.7 | 3.9ª | 5.4ª | 1.16 | 1.48 | 1.49 | 1.5 | 3.6ª | 4 | | | |
| | I don't understand people from some backgrounds. | 1.01 | 0.93 | 0.95 | 0.1 | -0.6 | -0.7 | 0.99 | 0.95 | 0.95 | -0.1 | -0.4 | -1 | | | |
| | If people don't fit into Australian society they should change. | 1.27 | 0.91 | 0.90 | 2.7 | -0.8 | -1.3 | 1.29 | 0.93 | 0.92 | 2.6 | -0.6 | - | | | |
| | I only feel safe around people from my background. | 0.93 | 0.91 | 0.83 | -0.6 | -0.7 | -1.6 | 0.95 | 0.86 | 0.85 | -0.5 | -1.2 | - | | | |
| EAS | I only feel comfortable around people from my background. | 0.88 | 0.85 | 1.01 | -1.1 | -1.2 | 0.1 | 0.87 | 1.03 | 0.88 | -1.3 | 0.3 | - | | | |
| | Only people from my background understand me. | 1.10 | 1.11 | 1.10 | 0.9 | 0.8 | 0.9 | 1.09 | 1.03 | 1.06 | 0.9 | 0.3 | (| | | |
| | I only have friends from my background. | 1.11 | 1.21 | 1.18 | 1.0 | 1.5 | 1.6 | 1.03 | 1.07 | 1.04 | 0.3 | 0.6 | (| | | |

Note. ^a denotes value outside of recommended range. PS = primary school sample. 15-20 = 15-20 years sample. C = community sample. AAS = Accepting Attitudes Scale. RAS = Racist Attitudes Scale. EAS = Ethnocentric Attitudes Scale.

Standardised Standardised Infit Outfit Value Value Sub PS 15-20 PS 15-20 PS 15-20 PS 15-20 C С С С scale Item -1.7 -3.7^a -5.2^a 0.91 0.76 0.73 0.83 0.63 0.61 I have respect for people from -1.9 -3.0^a -0.8 all backgrounds. I accept people from all $0.82 \quad -3.1^{a} \quad -2.7^{a} \quad -1.8 \quad 0.70 \quad 0.49^{a} \quad 0.67 \quad -3.3^{a} \quad -5.4^{a} \quad -4.3^{a}$ 0.69 0.67 backgrounds. Having many different 0.86 0.86 0.82 -1.5 -1.0 -1.9 0.88 0.88 0.79 -1.2 -1.1 -2.5^a backgrounds in Australia is a good thing. People from all backgrounds 1.1 -0.6 0.85 1.46 0.94 -1.5 3.5^a -0.70.91 1.16 0.94 -0.8 should be treated equally. I share with people from all $0.74 \quad 0.62 \quad 0.60 \quad -2.8^{a} \quad -3.4^{a} \quad -5.0^{a} \quad 0.72 \quad 0.63 \quad 0.73 \quad -3.0^{a} \quad -3.6^{a} \quad -3.4^{a}$ backgrounds. People from all backgrounds 0.2 0.9 0.96 0.86 1.08 -0.3 -1.2 1.0 0.96 1.02 1.09 -0.3 are equal. AAS -0.9 -1.9 0.99 1.02 0.91 -0.1 I live peacefully with people 0.99 0.88 0.83 0.0 from all backgrounds. I like talking with people from 0.75 0.83 0.74 -2.6^a -1.4 -2.9^a 0.76 0.80 0.72 -2.5^a -1.8 -3.5^a all backgrounds. We should be taught about all 1.29 1.26 1.32 2.7 1.9 3.0 1.32 1.32 1.43 2.9 backgrounds in school. I get upset if I hear racist 1.12 1.50 1.44 1.2 3.5^{a} 4.3^a 1.15 1.55^a 1.59^a 1.4 4.1^a 5.8^a comments about any background. I stand up for people from all 1.00 1.29 1.13 0.1 2.1 1.5 1.11 1.28 1.13 1.1 backgrounds. I don't ignore people because 1.79^a 1.07 0.91 -0.9 1.82^a 1.05 0.92 6.6^a 6.2ª 0.5 of their background People from some backgrounds are more violent 0.80 0.99 0.99 -2.3^a 0.0 0.0 0.83 1.03 1.01 -1.7 than others. People from some 0.82 0.90 0.90 -2.1^{a} -0.9 -1.1 0.84 0.89 0.90 -1.6 -0.9 -1.2 backgrounds are not friendly. People from some backgrounds are more likely to 1.01 1.09 1.08 1.03 1.13 1.13 0.3 0.1 0.8 1.0 get into trouble than others. I don't trust people from some 0.89 0.95 0.84 -1.2 -0.4 -2.0 0.89 0.93 0.82 -1.1 -0.6 -2.1^a backgrounds. **RAS** If people aren't happy in Australia they should go back 1.23 1.23 1.27 2.3 1.9 3.0 1.19 1.21 1.24 1.8 1.7 2.6 to their own country. People from some backgrounds get more than 1.22 1.60^{a} 1.69^{a} 2.2 4.4^{a} 7.0^a 1.20 1.58^{a} 1.72^a 1.9 they deserve. I don't understand people from 0.98 1.01 0.5 -0.1 0.1 1.04 1.02 1.03 0.5 0.2 0.4 1.05 some backgrounds. If people don't fit into Australian society they should 1.34 1.00 0.99 3.2^a 0.0 -0.1 1.37 0.98 1.00 3.3^a -0.1 0.0 change. $0.87 \quad 0.72 \quad 0.67 \quad -1.3 \quad -2.6^{a} \quad -3.8^{a} \quad 0.89 \quad 0.74 \quad 0.69 \quad -1.1 \quad -2.2^{a} \quad -4.0^{a}$ I only feel safe around people from my background. I only feel comfortable around 0.88 0.80 0.97 -1.2 -1.7 -0.3 0.86 0.78 0.99 -1.4 -2.0 -0.1 people from my background. EAS Only people from my 1.15 1.03 0.95 1.4 0.2 -0.5 1.14 0.98 0.98 1.4 -0.1 -0.2 background understand me. I only have friends from my 1.08 1.03 1.05 0.7 0.3 0.5 1.04 1.01 1.09 0.5 background.

Table 6 Multidimensional Model Fit Indices for RACES Subscales

Note. ^a denotes value outside of recommended range. PS = primary school sample. 15-20 = 15-20 years sample. C = community sample. AAS = Accepting Attitudes Scale. RAS = Racist Attitudes Scale. EAS = Ethnocentric Attitudes Scale

The final RACES consists of three subscales capturing a distinct component of racism: Racist Attitudes Scale (RAS), an 8-item scale of attitudes reflecting out-group der-

0.2 -1.1 2.5 4.4^a 2.2 1.5 0.5 -0.9 0.3 0.1 1.1 1.4 4.6^{a} 6.8^{a} 0.2 1.0

ogation; Accepting Attitudes Scale (AAS), a 12-item scale of attitudes reflecting outgroup endorsement; and Ethnocentric Attitudes Scale (EAS), a 4-item scale of attitudes reflecting in-group favouritism. The full RACES items and instructions have been published elsewhere (see Grigg & Manderson, 2015).

Validation of RACES

Once RACES was refined, reliability and validity were empirically investigated. Psychometric properties, including content, construct, factorial, convergent, discriminant, and predictive validity, in addition to internal consistency and test-retest reliability, were each explored with positive results (for further detail see Grigg, 2014; Grigg & Manderson, 2014a; Grigg & Manderson, 2014b, 2014c, 2015). RACES was utilised to evaluate the efficacy of an anti-racism and pro- diversity initiative in Victorian primary schools, Building Harmony in the Growth Corridor (henceforth Building Harmony) (see Grigg & Manderson, 2014b). The instrument was also disseminated to adolescents and adults in the Australian community from April 2012 to April 2013. Consequent work aimed to provide the first exploration of psychopathic personality traits and racist attitudes (see Grigg & Manderson, 2014c).

Building Harmony Findings

In addition to RACES and MCSDS-A, the 25 core items of the Strengths and Difficulties Questionnaire (SDQ; Goodman, 1997) were included (pre-intervention, post-intervention, and a further two weeks later) to evaluate the indirect effects of Building Harmony and to provide evidence of convergent and discriminant validity for RACES. This instrument, a behavioural screening questionnaire designed for use with 3-16 year olds, assesses emotional symptoms (ESS), conduct problems (CPS), hyperactivity/attention symptoms (HAS), peer relationship problems (PPS), and prosocial behaviour (PSS). Each area forms a five-item subscale and the four problematic construct subscales sum to a total difficulties score (TDS), with item response on a three point Likerttype scale ranging from "Not True" to "Certainly True"; 10 are reverse scored so higher scores indicate greater difficulties.

Pre-test, post-test, and test-retest data were cleaned and analysed using SPSS 20.0. Several datasets were created to enable differential data treatment for (1) comparison of Control and Building Harmony groups on the examined variables (*i.e.*, evaluation of the effect of *Building Harmony*), and the evaluation of (2) the strength of relationships between examined variables, and (3) the test-retest reliability of RACES. For all analyses, a missing data analysis was performed; all cases with 5% or more data missing across subscales removed. Assumptions were subsequently examined via the inspection of normality plots. Although some variables appeared non-normal (*i.e.*, mild to moderate skew), the sample size was large enough for the selected statistical analyses to be robust and no significant univariate or multivariate outliers were detected.

A series of 2x2 ANOVAs with Group (Building Harmony Group and Control ships between RACES and undesirable variables were expected. The inconsistent rela-Group) and Assessment (Pre-Test and Post-Test) were conducted to assess the effect tionship between the EAS and MCSDSA may be due to the limited length of the subof the intervention on RACES, SDQ, and MCSDS-A total scale and subscale scores scale (*i.e.*, four items), and the lack of a significant relationship with the ESS and CPS (tabular results available upon request). Due to the significant increase in MCSDS-A to the inconsistent findings reported above. Overall however, the correlation findings scores for the Control Group from pre- to post-test, a series of 2x2 ANCOVAs were support the construct, convergent, and discriminant validity of the RACES total scale, conducted with the same factors as above and with MCSDS-A as a covariate to assess RACES subscales, and the MCSDS-A, with most relationships consistent and in the exthe effect of the intervention on RACES and SDQ total scale and subscale scores whilst pected direction. controlling for the effect of socially desirable responding (tabular results published elsewhere; Grigg & Manderson, 2014b). Eleven paired-samples t-tests and Pearson correlations were conducted to assess the

While some effects were trivial, others entered the moderate to large range, with lower bound 95% CIs in the small to moderate range (Cohen, 1988). If focus is targeted only upon the non-trivial effects, significant meaning can be drawn from the data. Results provide tenuous efficacy evidence for the Building Harmony initiative in enhancing racial attitudes and social, emotional, and behavioural strengths in maintaining levels of racial, ethnic, cultural, and religious acceptance (see Table 7 for pre-test correlation results; other assessment period correlation results available upon request). Conversely, across groups and assessment periods, there was a significant negative relationship with the TDS, HAS, and CPS, an inconsistent relationship between the overall RACES and the PPS, and no significant relationship between the overall RACES and the ESS across either group or assessment period.

| | | 2. | | | 3. | | | 4. | | | 5. | | | б. | | | 7. | | | 8. | | | 9. | | | 10. | |
|---------|----------|----------|----------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|------|-------|--------|-------|--------|-------|--------|--------|------|-------|--------|--------|--------|-------|
| | BH | CG | TS | BH | CG | TS | BH | CG | TS | BH | CG | TS | BH | CG | TS | BH | CG | TS | BH | CG | TS | BH | CG | TS | BH | CG | TS |
| 1. | r .93* | ** .85** | * .88*** | .80*** | .81*** | .81*** | .76*** | .76*** | .76*** | .59*** | .26** | .37*** | 27* | 30** | 32*** | *14 | 06 | 11 | 37** | 23* | 30*** | 31** | 12 | 19** | 38*** | 26** | ·33* |
| RACES | p <.00 | 1<.00 | 1 <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | .004 | <.001 | .016 | .001 | <.001 | .21 | .54 | .12 | .001 | .011 | <.001 | .004 | .20 | .006 | <.001 | .005 | <.00 |
| 2. AAS | r | - | | | | | | | | | | .42*** | | | | | | | | | | | | | | | |
| | р | | | <.001 | <.001 | <.001 | | | | | | <.001 | | | | | | | | | | | | | | | |
| 3. RAS | r | | | | - | | | | | | | .17* | | | | | | | | | | | | | | | |
| | р | | | | | | <.001 | <.001 | <.001 | | | .015 | | | | | | | | | | | | | | | |
| 4. EAS | r | | | | | | | - | | .39*** | .23* | .28*** | 11 | 28** | 23** | 26* | 19* | 22** | 21 | 36** | 32*** | 26* | 30** | .27*** | 30** | 39** | *36* |
| | р | | | | | | | | | <.001 | .010 | <.001 | .32 | .002 | .001 | .021 | .042 | .002 | .058 | <.001 | <.001 | .020 | .001 | <.001 | .007 | <.001 | <.00 |
| | - | | | | | | | | | | | | 12 | 20** | 20** | 0.5 | 02 | 02 | 22* | 20** | 20*** | 20** | 25** | - | 20 | 2 2** | * 25* |
| 5. PSS | / | | | | | | | | | | - | | | | | | | | | | 29*** | | | .20 | | | |
| | р | | | | | | | | | | | | .24 | .001 | .006 | .66 | .81 | .74 | .047 | <.001 | <.001 | .006 | .005 | <.001 | .069 | <.001 | <.00 |
| 6. HAS | r | | | | | | | | | | | | | | | .44*** | .23** | .33*** | .37** | .44*** | .43*** | .25* | .17 | .19*** | .77*** | .70*** | .74** |
| 0. HAS | n | | | | | | | | | | | | | - | | <.001 | .010 | <.001 | .001 | <.001 | <.001 | .027 | .057 | .007 | <.001 | <.001 | <.00 |
| | r | | | | | | | | | | | | | | | | | | | | .32*** | | | | | | |
| 7. ESS | p | | | | | | | | | | | | | | | | - | | | | <.001 | | | | | | |
| | - | | | | | | | | | | | | | | | | | | | | | 26* | 30*** | .32*** | 66*** | 75*** | 72** |
| 8. CPS | / | | | | | | | | | | | | | | | | | | | - | | .20 | .59 | .32 | .00 | .75 | .12 |
| | р | | | | | | | | | | | | | | | | | | | | | .021 | <.001 | <.001 | <.001 | <.001 | <.00 |
| 9. PPS | r | | | | | | | | | | | | | | | | | | | | | | | | .61*** | .60*** | .58** |
| 9.115 | р | | | | | | | | | | | | | | | | | | | | | | - | | <.001 | <.001 | <.00 |
| | r | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10. TDS | | | | | | | | | | | | | | | | | | | | | | | | | | - | |
| 11. | <i>p</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MCSDS- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ** | | | | | | | | | | | | | | | | | | | | | | | | | | |

Table 7 Correlation Analyses for Pre-Test Data

Note. RACES = Racism, Acceptance, and Cultural-Ethnocentrism Scale; AAS = Accepting Attitudes Scale; RAS = Racist Attitudes Scale; EAS = Ethnocentric Attitudes Scale; PSS = SDQ Prosocial Scale; HAS = SDQ Hyperactivity Scale; ESS = SDQ Emotional Symptoms Scale; CPS = SDQ Conduct Problems Scale; PPS = SDQ Peer Problems Scale; TDS = SDQ Total Difficulties score; MCSDS-A = Marlowe Crowne Social Desirability Scale Australian; BH = Building Harmony Group; CG = Control Group; TS = Total Sample.

p < .05. p < .01. p < .001.

A P

Positive relationships between RACES and desirable variables and negative relation-

| | | 11. | |
|-----|--------|--------|--------|
| | BH | CG | TS |
| ••• | .63*** | .36*** | .48*** |
|)1 | <.001 | <.001 | <.001 |
| ** | .61*** | .31** | .46** |
| 1 | <.001 | .001 | <.001 |
| ••• | .55*** | .30** | .38*** |
|)1 | <.001 | .001 | <.001 |
| ••• | .34** | .26** | .29*** |
|)1 | .002 | .005 | <.001 |
| ••• | .42*** | .41*** | .41*** |
|)1 | <.001 | <.001 | <.001 |
| ** | - | - | - |
| | .43*** | .42*** | .41*** |
|)1 | <.001 | <.001 | <.001 |
| | 09 | | |
|)1 | .45 | .50 | .30 |
| ** | - | - | - |
| | .56*** | | |
| | <.001 | | |
| •• | 09 | 06 | 08 |
| | .41 | | |
| | - | - | - |
| | .41*** | .34*** | .37*** |
| | <.001 | | |
| | | | |
| | | - | |
| | | | |

stability of RACES, SDQ, and MCSDS-A total scales and subscales (tabular results available upon request). The t-test results indicate that RACES and MCSDS-A total scales and subscales were of acceptable stability, as indicated by the lack of a statistically significant difference between post- and test-retest scores. The correlation results suggest that RACES and MCSDS-A total scales were of acceptable stability (correlations above .70) (Nunnally, 1978). However, the EAS was of less than desirable stability, reinforcing the importance of utilising the three RACES subscales interdependently, rather than as independent subscales.

Community Sample Findings

In addition to RACES and MCSDS-A, the Dunn and Geeraert (2003) Racism Survey (DG), a 10-item instrument designed to measure explicit racist attitudes in Australia, was administered. Items were again responded to on a four point Likert-type scale with half reverse scored so higher scores indicate higher levels of racist attitudes. Although not validated through empirical research, this was the only other existing Australian measure of racist attitudes not specific to a single group and it has been utilised nationwide (Dunn, 2008). The Minnesota Temperament Inventory (MTI; Loney, Taylor, Butler, & Iacono, 2007), a 19-item research-based measure of adolescent and adult psychopathic personality traits, was also utilised. The instrument measures lack of empathy and remorse, shallow emotions, egocentricity, and deceptiveness, and can be considered a pure measure of psychopathic personality traits. Items are responded to on a four point Likert-type scale ranging from "This is not at all true of me" to "This is very true of me"; higher scores on all items indicate higher levels of psychopathic traits. Only the 13 meaningful items, as suggested by Loney et al. (2007) and utilised in subsequent research (e.g., Neumann, Wampler, Taylor, Blonigen, & Iacono, 2011)2011, were used in this study.

SPSS 20.0 was utilised to clean and analyse the data. A missing data analysis was performed and all cases with 5% or more data missing across subscales were removed. Separate regression analyses for each of the alternate scales (RACES, MCSDS-A, DG, and MTI) were used to deal with remaining missing data. Data were then recombined into a single data set to maximise the sample size for analysis. Assumptions were examined via the inspection of normality plots; although some variables appeared non-nor-

mal, the sample size was considered large enough for the selected statistical analyses to be robust because transforming non-normal data is a questionable practice and for sample sizes above 30 the sampling distribution of the mean can be safely assumed to be normal (Field, 2009; Games, 1984; Salkind, 2006). No significant univariate or m tivariate outliers were detected. Case wise deletion was used to deal with any unpaire data. Due to missing data, only 263 responses were usable (65%) and one did not provide demographic data.

Pearson's correlations were performed to examine the relationships between the measured variables across age group and offence history. Given the small sample of ticipants with an offence history (i.e., 10), age group and offence history were examined separately. The results of the correlation analyses are shown in Tables 8 and 9 below. Correlations between the RACES total score and subscale scores, DG, and MCSDShave been reported previously across age group (Grigg & Manderson, 2015).

| Correlatio | in Analyse | SIDI | Joninu | niiy Sai | npie Da | la by Ag | ge Grou | ρ | | |
|------------|------------|------|--------|---------------|---------|----------|---------|---------------|-------|--------------|
| | | | | RACES | | | AAS | | | RAS |
| | | | 15-20 | 21+ | TS | 15-20 | 21+ | TS | 15-20 | 21+ |
| | r | | 25** | 4 1*** | 30*** | 23** | 38*** | 27*** | 19* | 3 1** |
| | 95% CI | LL | 40 | 55 | 41 | 38 | 53 | 38 | 34 | 47 |
| | 93% CI | UL | 09 | 24 | 18 | 07 | 21 | 15 | 03 | 13 |
| | p | | .003 | <.001 | <.001 | .006 | <.001 | <.001 | .026 | .001 |
| | N | | 141 | 109 | 250 | 141 | 109 | 250 | 141 | 109 |
| MTI | | | | EAS | | | MCSDS-A | | | DG |
| | | | 15-20 | 21+ | TS | 15-20 | 21+ | TS | 15-20 | 21+ |
| | r | | 17* | 36*** | 24*** | 39*** | 50*** | 4 1*** | .19* | .29** |
| | 95% CI | LL | 33 | 51 | 35 | 52 | 63 | 51 | .02 | .11 |
| | 93% CI | UL | -<.01 | 18 | 12 | 24 | 34 | 30 | .34 | .45 |
| | p | | .042 | <.001 | <.001 | <.001 | <.001 | <.001 | .023 | .002 |
| | N | | 141 | 109 | 250 | 141 | 109 | 250 | 140 | 109 |

Table 8 Correlation Analyses for Community Sample Data by Age Group

Note. RACES = Racism, Acceptance, and Cultural-Ethnocentrism Scale; AAS = Accepting Attitudes Scale; RAS = Racist Attitudes Scale; EAS = Ethnocentric Attitudes Scale; MCSDS-A = Marlowe Crowne Social Desirability Scale Australian; DG = Dunn and Geeraert (2003) Racism Survey; MTI = Minnesota Temperament Inventory; 15-20 = 15-20 years age group; 21+ = 21+ years age group; TS = Total Sample.

^{*} *p* < .05. ^{**} *p* < .01. ^{***} *p* < .001

Table 9

Correlation Analyses for Community Sample Data by Offence History

| | | - | | | | | _ | -] | | 1 | | J | | | | _ | | | | | | |
|--------------|------|----|----|----|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|------|----------|-------|------|--------------|-------|------|--------|
| | | | 1. | | | 2. | | | 3. | | | 4. | | | 5. | | | 6. | | | 7. | |
| | | CS | OH | TS | CS | OH | TS | CS | OH | TS | CS | OH | TS | CS | OH | TS | CS | OH | TS | CS | OH | TS |
| | r | | | | .90*** | .94*** | .90*** | .84*** | .92*** | .85*** | .66*** | .86** | .67*** | .30*** | .71* | .31*** | 80*** | 78** | 80*** | 27*** | 70 | 30*** |
| 1. RACE | ES p | | - | | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | <.001 | .001 | <.001 | <.001 | .022 | <.001 | <.001 | .008 | <.001 | <.001 | .053 | <.001 |
| | N | | | | 252 | 10 | 263 | 252 | 10 | 263 | 252 | 10 | 263 | 252 | 10 | 263 | 251 | 10 | 262 | 242 | 8 | 250 |
| | r | | | | | | | .57*** | .76* | .58*** | .47*** | .80** | .49*** | .35*** | .64* | .36*** | 73*** | 86** | 73*** | 25*** | 64 | 27*** |
| 2. AAS | b p | | | | | - | | <.001 | .011 | <.001 | <.001 | .005 | <.001 | <.001 | .048 | <.001 | <.001 | .001 | <.001 | <.001 | .090 | <.001 |
| | N | | | | | | | 252 | 10 | 263 | 252 | 10 | 263 | 252 | 10 | 263 | 251 | 10 | 262 | 242 | 8 | 250 |
| | r | | | | | | | | | | .43*** | .68* | .45*** | .18** | .72* | .21** | 68*** | 65* | 68*** | 18** | 69 | 22*** |
| 3. RAS | p | | | | | | | | - | | <.001 | .029 | <.001 | .003 | .019 | .001 | <.001 | .042 | <.001 | .004 | .061 | <.001 |
| | N | | | | | | | | | | 252 | 10 | 263 | 252 | 10 | 263 | 251 | 10 | 262 | 242 | 8 | 250 |
| | r | | | | | | | | | | | | | .11 | .54 | .12* | 50*** | 53 | 50*** | 22** | 67 | 24*** |
| 4. EAS | p | | | | | | | | | | | - | | .094 | .11 | .045 | <.001 | .12 | <.001 | .001 | .067 | <.001 |
| | N | | | | | | | | | | | | | 252 | 10 | 263 | 251 | 10 | 262 | 242 | 8 | 250 |
| 5 MOOD | r | | | | | | | | | | | | | | | | 20** | 57 | 2 1** | 39*** | 84** | 41*** |
| 5. MCSD A | p- p | | | | | | | | | | | | | | - | | .002 | .089 | .001 | <.001 | .009 | <.001 |
| Α | N | | | | | | | | | | | | | | | | 251 | 10 | 262 | 242 | 8 | 250 |
| | r | | | | | | | | | | | | | | | | | | | .21** | .56 | .22*** |
| 6. DG | р | | | | | | | | | | | | | | | | | - | | .001 | .15 | <.001 |
| | N | | | | | | | | | | | | | | | | | | | 241 | 8 | 249 |
| | r | | | | | | | | | | | | | | | | | | | | | |
| 7. MTI | p | | | | | | | | | | | | | | | | | | | | - | |
| | | | | | | | | | | | | | | | | | | | | | | |

Note. One participant did not report offence history. RACES = Racism, Acceptance, and Cultural-Ethnocentrism Scale; AAS = Accepting Attitudes Scale; RAS = Racist Attitudes Scale; EAS = Ethnocentric Attitudes Scale; MCSDS-A = Marlowe Crowne Social Desirability Scale Australian; DG = Dunn and Geeraert (2003) Racism Survey; MTI = Minnesota Temperament Inventory; CS = Community Participants without Offence History; OH = Community Participants with Offence History; TS = Total Sample.

* *p* < .05. ** *p* < .01. *** *p* < .001

249

TS

-.22***

-.33

-.10

<.001

250

TS

.22***

.10

.33

<.001

No significant correlations had 95% CIs that crossed zero for either group or the total sample. The overall Community Sample and the participants without an offence history had very narrow 95% CIs that did not span an entire effect strength band (Cohen, 1988). As many significant correlations were moderate to large, many relationships uncovered were meaningful. However, the participants with an offence history had 95% CIs that effectively spanned several strength ratings at their widest point (*i.e.*, from trivial to large; small to very large; moderate to near perfect etc.).

Correlation analyses were in the expected direction with expected effect sizes and consistent confidence intervals. Moreover, the RACES total scale and subscale findings reflected the findings with primary school children and were consistent across age groups. The RACES total scale and subscales were positively related to each other with moderate to nearly perfect effect and with the MCSDS-A with small to very large effect. There was a negative relationship between the RACES total scale and subscales and the DG with large to very large effect and with the MTI with small to very large effect. The DG was related to the MTI with small to moderate effect. The MCSDS-A was also negatively related to the DG with small to large effect and the MTI with moderate to very large effect. Reasonable consistency between the RACES and DG findings suggest that

greater levels of psychopathic traits are related to lower levels of acceptance and higher levels of racist attitudes. The consistency of the MCSDS-A findings across both measures of racist attitudes and the MTI indicate that each of the three instruments utilised may be impacted by socially desirable re-sponding.

Research Summary

The overarching aim of this project was to develop and validate an attitudinal measure of racial, ethnic, cultural, and religious acceptance for use as a proxy to quantify racist attitudes. The end goal was to develop an instrument to be employed in community-wide anti-racism and pro-diversity initiatives, to assist in evaluating and improving the effectiveness of such enter-prises, and so to contribute to programs to re-duce racism and increase acceptance of differ-ence throughout Australia.

The study results demonstrated the robust re-liability and validity of RACES as a measure of racist attitudes in the Australian context, con-firming the utility of the instrument's thorough construction process and robust empirical eval-uation. It is strongly supported due to its thor-ough construction process, as based on recom-mended scale development guidelines. The scale underwent vigorous empirical evaluation, which established its robustness, verification of con-tent, factorial, construct, convergent, and dis-criminant validity, and internal consistency and test-retest reliability.

The outcomes of PCA, EFA, CFA, and Rasch analyses provide compelling sup-The instrument is the first Australian meas-ure of general racist attitudes towards all port for the overall factorial and construct validity of the 24-item RACES across priracial, ethnic, cultural, and religious groups to be em-pirically validated across the lifesmary school children, adolescents, and adults. Additional CTT anal-yses further suppan. Due to its advantages over existing tools, numerous uses are conceivable. RACport the reliability and validity of the tool. Results indicate that the RACES is a reliable ES can be utilised to: a) evaluate the relationship between racism and other variables, three-dimensional scale of Accepting Attitudes (12 items), Racist Attitudes (8 items), b) track changes in racist atti-tudes over time, c) compare the racist attitudes of two and Ethnocentric Attitudes (4 items), each a valid scale independently, but more useful groups, and d) evaluate the effect of an-ti-racism or pro-diversity initiatives. when utilised interdependently. RACES demonstrated expected relationships with social, emotional, and behavioural strengths and difficulties, so-cially desirable responding, **Limitations and Future Research** psychopathic per-sonality traits, and an existing survey of racist attitudes; was able to Despite the promising results, some limita-tions need to be acknowledged. Although discriminate between two distinct groups; and was shown to be internally consistent and a na-tion-wide sample was sought, the final sample was predominantly in Victoria, limtemporally stable. The final in-strument also included a 10-item shortened Australian iting the generalisability of the results. Minimum sample sizes for factor analysis and adaptation of the Marlowe-Crowne Social Desirability Scale (MCSDS-A) to assess soother analyses were met, but data from larger samples would en-hance confidence in the cially desirable responding, which was both reliable and valid. results. Strong con-sistency was found across age groups, but results were based on an The instrument has various clear strengths and advantages over existing tools. The unbalanced overall scale (*i.e.*, 12, 8, and 4 items), which may bias findings utilising the item content was based on a literature review and qualitative data on lived experiences of racism. This development phase ensured that the items reflected understandings and conceptualisations from real people, in contrast with other measures that draw on section.

total scale score. Future research therefore is needed to confirm the psychometric properties of the new measure in other contexts and populations prior to its wide disseminaondary data, or derive from pre-existing instruments. The final scale utilises an in-built Conclusion social desirability measure, enabling the evaluation of participant responses and monitoring of bias. Most tools fail to in-clude similar methodological checks, so the re-sults Racism is a significant challenge in contem-porary Australia. In response, various of various prior studies may not reflect the true attitudes of participants. RACES has interven-tions have aimed to reduce racism and increase acceptance of diversity, but researchers are una-ble to determine their effectiveness and efficacy because standardised, also proven reliable and valid across children, ado-lescents, and adults, in contrast with

other tools developed solely for either children or adults. By utilising multiple samples of diverse racial, ethnic, cultural, religious and socioeconomic demographics in the validation process, the generalisability of RACES was enhanced, again distinct to many measures which rely on major-ity group convenience sampling. Finally, the measure was assessed and refined using both CTT and IRT, giving greater confidence in its factorial and construct validity, contrasting again with most other scales which rely solely on CTT.

Overall, the final measure is a robust and empirically constructed and validated instru-ment. Strong validity evidence suggests that the tool is appropriate for dissemination to the sci-entific community and for utilisation in schools and municipalities around Australia. RACES can be utilised to evaluate the effectiveness of racism-reduction and pro-diversity programs by assessing the racial, ethnic, cultural, and reli-gious acceptance of individuals prior to, and af-ter, implementation of intervention strategies. The evaluation of such programs would provide a strong evidence base for initiatives, ensuring that more focused and valuable rac-ism-reduction programs can be implemented and community levels of racism within Austral-ia may be subsequently reduced. RACES would be especially useful in initiatives designed to address racism in schools, due to its develop-ment stages being undertaken with youth.

appropriately developed, and robustly validated measures of racism do not exist. The surveys presently utilised in Aus-tralia derive from US scales, are specific to sin-gle racial or age groups, or have not undergone rigorous validation. Current instruments are therefore problematic for addressing racism in Australia. The present project aspired to address this issue to inform developmentally targeted racism-reduction programs. As indicated above, it was crucial to identify what community indi-viduals believed characterise racism. This led to the development of a preliminary survey, in-strument refinement, and empirical validation. Multiple methods and various samples con-firmed the robust nature of scale and its relia-bility and validity for children, adolescents, and adults throughout Australia. Although confir-mation of psychometric properties is required in additional samples, it is hoped that RACES can be employed to assist with the evaluation, and consequent targeted improvement, of innovative racism reduction and pro-diversity interventions for populations across the lifespan. Such ap-praisal would provide a strong evidence base for initiatives to accordingly reduce community levels of racism throughout Australia.

Author note

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Grigg - 121