A community-based test of the Dual Process Model of Intergroup Relations: Predicting attitudes towards Christians, Muslims, Hindus, Jews, and Atheists

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Research in New Zealand and elsewhere has shown that attitudes towards Muslims has been generally negative. Antipathy towards a variety of outgroups has previously been shown to be predicted by a combination of competitive/dangerous worldview and social dominant and authoritarian attitudes in Duckitt's (2001) dual-process cognitive-motivational model of ideology and prejudice. In this research, approximately one thousand New Zealanders completed measures of these variables, and their attitudes towards a range of groups: including Atheists, Christians, Hindus, Jews, and Muslims. Muslims were evaluated most negatively of the religion-based groups, and this was predicted by both the social dominance and authoritarianism 'routes' described in the dual-process model. This suggests that Muslims are seen as threatening both hierarchical and traditional social relationships.

Keywords: Social dominance orientation (SDO); Right-Wing Authoritarianism (RWA); Islamophobia.

Introduction

attitudes, and discriminatory acts and Muslims may be viewed no more butter of social psychology, and a fair (e.g., Strabac, Aalberg, & Valenta, 2014). have of more prejudices and, therefore, it falls to those Zealanders who've dedicated careers understanding prejudice position.

In the West, Muslims are not viewed best, anti-Muslim attitudes, appear to be Research, 2011). particularly pronounced post-9/11 (Atom, half of more than 1,000 Dutch adolescents foundations in the 1930s and 1940s, (Sidanius & Pratto, 1999). held negative attitudes towards Muslims personality in the 1950s, social structures predictors of anti-Muslim sentiment (e.g., Duckitt, Wagner, du Plessis, & Birum, individuals Wike & Grim, 2010). Anti-Muslim 2002) into a powerful explanatory relationships "white' majority group members (e.g.,

to understand prejudicial cultural studies have suggested that difference researchers have ever had. favoured to immigration from Muslim countries while in

Hewstone & Schmid, 2014) and cross- Theory of prejudice as individual

While Adorno et al's (1950) claims that systems, is something of the bread and negatively than immigrants in general people do unpleasant things because they unpleasant (specifically chunk of other social science besides (see In New Zealand? While surveys have authoritarian) personalities has had, and Allport, 1954; Duckitt, 1992; Sibley & asked about New Zealanders' attitudes still has, intuitive appeal, it fell from Barlow, 2016, for reviews). The events of towards Muslims, there have been few favour in the 1960s for various credible have been popularly academic studies. Shortly after 9/11, the reasons (see Altemeyer, 1981, for a characterised, by some, as an extreme New Zealand Election Study survey review of these concerns). Thirty years 'everyday' indicated that just over one in twenty New later their notion of an authoritarian unrestricted personality was resurrected by Altemeyer the guise of Right-Wing (and almost a quarter favoured a complete ban Authoritarianism (RWA), trimmed of its discrimination) to step up and address this (NZES, 2002). More recently, research more esoteric content and without the has suggested New Zealanders are, at Freudian trappings (Altemeyer, 1981; ambivalent towards Muslims 1996). In the mid-1990s, RWA was joined particularly positively. Islamophobia, and (Centre for Applied Cross-Cultural in the pantheon of prejudice-related individual difference constructs by Social The problem of explaining prejudice has Dominance Orientation (Pratto, Sidanius, 2014). Velasco Gonzalez, Verkuyten, gone through a variety of phases, Stallworth, & Malle, 1994), central to Weesie and Poppe (2010) reported that including a focus on psychoanalytic tests of Social Dominance Theory

Right-Wing Authoritarianism (RWA) (see also Clements, 2012). At the same in the 1960s, and cognitive process in the and Social Dominance Orientation (SDO) time, two-thirds of a Swedish sample 1980s and 1990s (see Sibley & Barlow, have been introduced already in this reported negative attitudes in 1990 2016). I shall focus here on individual volume (see Azeem, Hunter & Ruffman, (Hvitfelt, 1991, cited in Bevelander & difference perspectives that hark back to 2019; Du, Buchanan, Hayhurst & Otterbeck, 2010), a decade before 9/11. the seminal work of Adorno, Frenkel- Ruffman, 2019; Osborne, Satherley, Since 9/11, however, threat perceptions Brunswik, Levinson and Sanford (1950), Yogeeswaran, Hawi & Sibley, 2019). appear to be particularly important as and synthesised by Duckitt (2001; Briefly, SDO reflects the extent to which endorse hierarchical between attitudes may be most pronounced among framework that is as close to a Grand higher-status groups perching above those of increasingly lower

1999). RWA, on the other hand, has been threaten both security and hierarchy (see PARTICIPANTS conceptualised for almost 40 years as the also Cantal et al., 2015). of two paths from childhood socialisation with perceptions of Muslim threat and a particular faith. punitive (specifically unaffectionate parenting) development of personality (specifically and Plant (2018) reported that whether or conforming versus informing individual's (specifically that the world is a dangerous, sauce) to a target identified as Muslim was or competitive place), and that ultimately moderated by RWA. Crowson (2009) manifest in outgroup derogation and found that the SDO arm of the DPM ingroup favouritism. The combination of predicted support for restricting human SDO and RWA, including in the context rights following the events of 9/11, RWA of the DPM, has subsequently been shown was both a stronger predictor of human to effectively predict attitudes to a rights restrictions and military aggression numerous 'outgroups' including those against Iraq. However, SDO-dominance based on race, sexuality, and dietary predicts support for torture of Muslim preference (e.g., Cantal et al., 2015; extremists, while RWA may not (Lindén, Levin, Pratto, Matthews, Sidanius & Björklund, & Bäckström, 2018). Ktiely, 2013; Sibley & Duckitt, 2008; Judge & Wilson, 2019; Whitley & argued, and showed, that authoritarians SDO combine to explain as much as half immigrant groups who don't assimilate of the variation in prejudice towards race- into their new culture of residence (as a based outgroups (McFarland & Adelson, rejection of conformity), while social 1996; Altemeyer, 1998)

together, such that holding one prejudice dominant social hierarchy). Consistent tends to be associated with others with this, Perry and Sibley (2013) show Bergh & Akrami, 2016, for a review), has are predicted by both arms of the DPM, been integrated into the DPM. For arguing that immigration represents example, Asbrock, Sibley and Duckitt threats to both symbolic and realistic (2010) showed that attitudes towards a cultural resources. Indeed, Matthews and variety of attitude targets may be broken Levin (2012) applied the DPM to down into three families of dangerous perceptions of threat from Muslims, (e.g., criminals, drunk drivers, those who reporting that economic threat perceptions behave 'immorally'), derogated (e.g., were mediated by SDO, and symbolic psychiatric patients, obese people, threat perceptions mediated through 'physically unattractive people') and RWA. dissident (e.g., feminists, activists, and atheists), and that these are differentially investigate the utility of SDO and RWA, predicted by the RWA/SDO arms of the in a limited test of the Dual Process Model DPM. Specifically, SDO longitudinally (including predicts prejudice towards derogated personality or childhood experience), in groups, RWA predicts prejudice toward predicting attitudes towards religiondangerous groups, and both predict defined groups: Muslims, Hindus, Jews, prejudice towards

perceived value: Sidanius & Pratto, presumably because dissident groups may

versus support for extreme anti-Muslim policies, through while SDO correlated .48 and .40. Beck toughminded) not white non-Muslims were more likely worldviews to administer an unpleasant stimulus (hot

Thomsen, Green and Sidanius (2008) Ægisdóttir, 2000). Indeed, RWA and may be most aggressive towards dominants are particularly aggressive Indeed, the idea that prejudices travel towards that do (seen as violation of the (identified as generalized prejudice: see that attitudes towards immigration policy

> The aim of this research, then, is to worldviews, dissident groups, Christians and Atheists.

METHOD

Participants were respondents to an combination of submission to authority, Given that SDO and RWA robustly online survey. 5,744 people responded to endorsement of aggression by authorities predict prejudice, we should expect that the survey, of whom 1,025 completed the against transgressors, and a conventional they do so for specifically anti-Muslim set of questions relating to groups, 62% and traditional view of how the world prejudice and policy initiatives. This is were female, 87% explicitly identified as should be (Altemeyer, 1981; 1996). Both generally the case. For example, Choma, European and 6% as Maori (indigenous RWA and SDO have been shown to Jagayat, Hodson, & Turner, 2018) New Zealanders), and the mean sample uniquely, and additively, predict prejudice reported moderate negative correlations age was 49.74 years (SD=13.34). 359 (McFarland & Adelson, 1996; Sibley, between SDO and RWA, and attitudes (35%) responded to the question "If you Robertson & Wilson, 2006). Following towards Muslims (see also Rowatt, do have a spiritual 'faith', which of the the synthesis initially proposed by Franklin & Cotton, 2005; Uenal, 2016). following describes what you believe" by McFarland and Adelson (1996), Duckitt Dunwoody and McFarland (2018) have selecting Christianity, 2 people selected proposed a Dual Process shown that, following the 2015 Paris Hinduism, 5 people selected Judaism, 90 Motivational Model of prejudice, in Terrorist attacks (perpetrated by Islamic selected Buddhism or "something else', which RWA and SDO are the pointy end extremists), RWA correlated .72 and .65 with 56% indicating that they did not have

MEASURES

The survey included a range of measures relating to attitudes to topical social issues, and constructs related to socio-political attitude. The summary below describes only those of interest in the present study.

All participants completed measures of SDO, RWA and Competitive worldviews. SDO was assessed using a reliable (α =.77) balanced set of six items previously used in the NZAVS (see Milfont et al., 2013), and RWA was based on the mean of responses to a reliable (α =.71) balanced set of six items from Altemeyer's (1996) Right-Wing Authoritarianism representing the two highest loading proand con-trait items on each of three Authoritarianism factors identified by Mayor, Louis and Sibley (2010). Dangerous Worldview ("Despite what one hears about "crime in the street," there probably isn't any more now than there ever has been" and "There are many dangerous people in our society who will attack someone out of pure meanness, for no reason at all") and Competitive Worldview ("It's a dog-eat-dog world where you have to be ruthless at times" and "Life is not governed by the 'survival of the fittest.' We should let compassion and moral laws be our guide") were each assessed using a balanced pair of items drawn from Duckitt, Wagner, du Plessis, and Birum's (2002) and previously adopted by other researchers in the New Zealand context (e.g., Perry & Sibley,

Attitudes towards groups were solicited by asking participants to respond to 18 target group labels using a 1 ('Strongly negative') to 7 ('Strongly positive') scale. The groups pertinent to this research were "Christians", "Muslims", "Hindus". "Jews" and "Atheists", but also included "Politicians". "Lawyers", "Pākehā", "Maori" and "The Police" rated significantly more positively than Dangerous Worldview scores directly among others. The group attitudes section the scale neutral point. All groups were predicted more negative attitudes towards of the survey was one of five randomly rated significantly differently from each Muslims (only), while Competitive presented to each participant along with other (p<.005) except for Christians and Worldview scores directly predicted the main body of measures completed by Hindus, and Hindus and Jews. At the same greater negativity towards Christians and

PROCEDURE

Participation in the online survey (delivered via SurveyMonkey) was solicited through the Sunday Star Times, a national New Zealand newspaper, as an investigation of New Zealanders' political and social attitudes. The 'Brainscan' survey was open for a two-week period, after which the data were collated and summarised for serialisation in the newspaper. Results were summarised and serialised through the Sunday Star Times. Ethical approval was granted by the School of Psychology Human Ethics Committee. Finally, parts of this data set have been previously published in Milfont et al., (2013), Judge and Wilson (2019), and Ruffman et al., (2016).

RESULTS

Table 1 shows means and standard deviations for each variable, as well as intercorrelations between each. RWA, SDO, and Competitive Worldview mean scores were all significantly lower than the scale midpoint of 4 (t's(1023-1024)\le -17.30, p's<.001) while Dangerous Worldview scores were significantly higher than the midpoint (t(1024)=10.03,p<.001). Of the five religion targets, only Muslims were rated below the scale (neutral) midpoint (t(1025)=-2.83,p<.005). Christians (t(1021)=6.85,p<.001), Hindus (t(1020)=10.65, p<.001), Jews (t(1019)=12.51, p<.001), and

"Goths", Atheists (t(1021)=13.37, p<.001) were all attitudes with all groups but Atheists. time, all religious targets were rated more Jews (only). positively than Politicians (M=3.39, positively than and Pākehā (M=5.09, SD=1.19)

> Table 1 shows that RWA was positively indicated associated with attitudes towards the other four groups. M=3.43, SDO, was uncorrelated with attitudes p<.05), and higher correlated with attitudes towards all four M=4.30, (attitudes towards Christians positive they were towards all others.

religion target groups. Non-significant versus five models evidenced good fit to the data, versus and are presented in Figures 1a to 1e.

accounted for between 3% (Jews) and significantly groups, except for Christians (where the M=4.38, SD=1.11; F(1,911)=.20, p=.66). relationship was positive) and Jews (where it was non-significant). Similarly, SDO was associated with less positive

Given that 45% of the sample identified SD=1.23), Bankers (M=3.77, SD=1.28), a particular religious faith, including 35% and Goths (M=3.49, SD=1.26) and less as Christian, those who identified with a Maori (M=4.55, faith other than Christianity were SD=1.33), The Police (M=4.99, SD=1.40) removed. This left a sample of 929 participants. Multivariate **ANOVA** that Christians attitudes towards significantly lower on Competitive Christians, but negatively associated with Worldview (M=3.22, SD=1.28 versus SD=1.24;F(1,911)=6.02, on Dangerous towards Christians, but was negatively Worldview (M=4.72, SD=1.35 versus SD=1.48;F(1,911)=19.31, remaining groups. In all but one case p<.001), SDO (M=2.75, SD=1.02 versus and M=2.51, SD=1.07;F(1,911)=11.27, Atheists) the more positive participants p<.005), and RWA (M=3.33, SD=1.03 were towards one religion target, the more versus 2.55, SD=.92; F(1,911)=142.25, p<.001) than those with no faith. They AMOS Version 23 was used to test path were also more positive towards saturated models using Dangerous and Christians (M=5.13, SD=1.16 versus Competitive Worldviews, and SDO and M=3.83, SD=1.20; F(1,911)=261.39, RWA, to predict attitudes towards the five p<.001) and Jews (M=4.59, SD=1.11 M=4.35, paths were removed and models re- F(1,911)=10.76, p<.005), less positive calculated prior to summary below. All towards Atheists (M=3.85, SD=1.27 M=4.99, F(1,911)=185.46, p<.001) than those with The Dual Process Model variables no faith. Christians were also nonless positive 14% (Christians) of the variation in group Muslims (M=3.80, SD=1.29 versus attitudes. Generally, RWA was associated M=3.92, SD=1.22; F(1,911)=1.94, p=.16) with less positive attitudes to target and Hindus (M=4.35, SD=1.06 versus

Table 1. Means, SDs, and intercorrelations between DPM and religion variables for total sample.

	1.	2.	3.	4.	5.	6.	7.	8.	M (SD)
1. Comp. World	-								3.31 (1.27)
2. Dang. World	.24**	-							4.45 (1.44)
3. RWA	.18**	.37**	-						2.83 (1.04)
4. SDO	.43**	.22**	.45**	-					2.59 (1.05)
Christians	13**	.05+	.30**	01	-				4.29 (1.36)
6. Muslims	17**	20**	27**	32**	.24**	-			3.89 (1.26)
7. Hindus	15**	11**	22**	26**	.32**	.61**	-		4.37 (1.10)
8. Jews	15**	04	08*	16**	.41**	.43**	.59**	-	4.43 (1.10)
9. Atheists	.04	13**	41**	18**	24**	.24**	.27**	.18**	4.56 (1.35)

N's between 1019 and 2015; +=p<.10, *=p<.05, **=p<.001

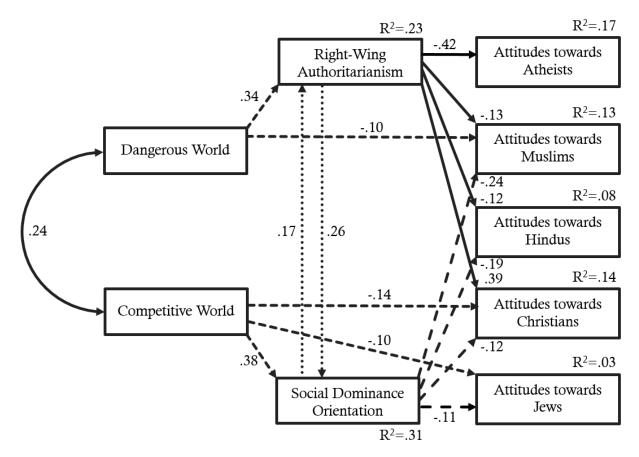


Figure 1. Composite of five path models predicting attitudes towards Atheists, Muslims, Hindus, Christians and Jews. (All paths shown are significant at p<.05; dotted and dashed lines from different variables for clarity)

Table 2. Means, SDs, and intercorrelations between DPM and religion variables for non-religious (below the diagonal) and Christian (above the diagonal) subsamples.

	1.	2.	3.	4.	5.	6.	7.	8.	9.
1. Comp. World	-	a.18**	b.02	c.37**	21**	d04	e05	16*	f.04
2. Dang. World	a.29**	-	g.26**	^h .06	01	17**	09+	07	09+
3. RWA	b.32**	g.42**	-	i.33**	.19**	30**	29**	10+	33**
4. SDO	c.50**	h.29**	i.49**	-	^j 17**	29**	30**	22**	11*
5. Christians	11*	01	.12**	^j 05	-	^k .11*	1.20**	.47**	09+
6. Muslims	d24**	20**	25**	32**	k.44**	_	.57**	m.35**	n.38**
7. Hindus	e20**	10*	19**	25**	¹ .46**	.66**	-	.59**	°.40**
8. Jews	16**	07	14**	16**	.38**	m.52**	.60**	_	.21**
9. Atheists	f13*	11*	31**	16**	03	ⁿ .17**	°.23**	.28**	-

Non-Faith subsample N's between 564 and 569; Christian subsample N's between 356 and 359 +=p<.10, *=p<.05, **=p<.005; correlations sharing superscripts significantly different at least at p<.05

Table 2 shows the correlations between religious sample, while correlations participants by calculating Fischer's Z Christians). based on independent correlations (for were all significantly stronger in the non- those with no faith (Z=-.28, p<.005)

DPM variables and group attitudes for the between SDO and group attitudes were faith) as a variable in the path models non-faith and Christian subsamples. I essentially unchanged (excepting that (allowing paths to worldviews, RWA and compared the strength of correlations between SDO and attitudes towards SDO, and religion group attitude between Christian and non-religious Christians which was stronger among variables) showed that being Christian

Christians, example comparing the .40 correlation Worldview was uncorrelated with RWA Dangerous Worldview, RWA, but not between SDO and RWA for non-religious and the same was true for Dangerous SDO (p=.07) scores. Inclusion also with the correlation of .33 for these Worldview and SDO (Z's=-4.59 and - resulted in poorer model fit for all targets, variables among Christians). Correlations 3.51, p's<.001). SDO was also more did not explain additional variance in between SDO, RWA and worldviews weakly correlated with RWA than among attitudes towards Muslims, Hindus, or

Inclusion of faith (Christian versus no was a significant predictor of lower Competitive Competitive Worldview, but higher Jews, and did not generally change the models for Christians (where being Atheists loaded with other dissident competitive predictor of, and explaining an additional was SDO. 8% of variance in, attitudes towards Christians).

DISCUSSION

terms (consistent with unusual bifurcation in the relationship boxes both bivariate correlation and DPM path that Islamophobia Christians in the DPM analyses, while differentiation attitudes towards Christians in both sets of both suggested that the SDO arm of the DPM Islam as a belief system. of attitudes towards Muslims, Hindus and upon any religious influence upon anti- SDO correlates stronger predictors only of attitudes ways. Self-identified Christians were RWA frequently correlates Jews.

distinguished the relative roles of RWA and outgroup bias against Atheists. While their theoretical exemplar. and SDO in prejudice towards different self-identified Christians were not, groups, it appears that these religion however, groups may experience antipathy for Muslims, this should be considered in the based on short measures of RWA and different reasons. Duckitt and Sibley context that Muslims were regarded most SDO (six items each of the full thirty- and (2007) included Arabs, Atheists and negatively of all the religion-based sixteen-item scales), extremely short Terrorists among the target groups in their targets. It will be cold comfort that only measures of Dangerous and Competitive test of generalized prejudice, finding that Politicians, Bankers, and Goths were Worldviews (two versus full scale of ten they loaded on separate 'Derogated', rated more negatively than Muslims. Even items) and single items representing 'Dissident Group', and 'Dangerous' Atheists were evaluated equivalently. attitudes towards groups. Not only is it

In the total sample, though not as attitudes, we can infer that Muslims religious negative as attitudes towards some (non-trigger SDO-based antipathy because Altemeyer & Hunsberger, 1992; Johnson, religious) target groups, attitudes towards their presence threatens the social Rowatt, Barnard-Brak, Patock-Peckham, Muslims were significantly more negative hierarchy, as well as inspiring RWA- Labouff, & Carlisle, 2011). That is, some than the other (religious) group targets based antipathy through both realistic and authoritarians may be drawn to religion, and, as the mean score was below the symbolic threat to physical and cultural and particularly fundamentalist positions scale midpoint, also negative in absolute security. Indeed, Obaidi, Kunst, Kteily, on their Highland, Thomsen and Sidanius (2019) have interpretations of the Bible (and other Troughton, Shaver, Barrett, Sibley, & shown that anti-Muslim attitudes are texts) may justify their antipathies - it is Bulbulia, 2019, this issue). With the moderately associated with perceived not the religion per se. exception of attitudes towards Christians, terroristic threat, and strongly associated both SDO and RWA were associated with with both symbolic and realistic world has witnessed two further atrocities more negative attitudes to all religion (resource-based) threat perceptions. In committed in places of worship - against groups. Christians, however, showed an short, Muslims may be seen to tick all the Christians in Sri Lanka, and Jews in the for outgroup between SDO and RWA, and attitudes in Additionally, Uenal (2016) has argued also illustrate that antipathy towards models. That is to say, SDO was not dimensions - anti-Muslim prejudice and religions other than Islam shares some correlated with attitudes to Christians and anti-Islam sentiment. A survey of German commonality. RWA predicts negative associated with more negative attitudes to community participants supported this attitudes towards all but Christians and and suggested RWA was associated with more positive perceptions of symbolic threat predicted attitudes towards all but the irreligious. anti-Muslim and analyses. Generally speaking, where SDO sentiments, realistic threat predicted only more and RWA are both significant predictors anti-Muslim sentiment, and 'terroristic' Christians, SDO predicts more negativity. of group attitudes in path analyses they (safety-based) threat predicted only antiboth predict more negative attitudes (e.g., Islam sentiments. The research described the purpose of this research, was that Sibley & Duckitt, 2007; Cantal, Milfont, here addresses only the 'face' of Islam - among self-identified Christians SDO and Wilson, & Gouveia, 2015). Path analyses Muslims - rather than attitudes towards RWA were uncorrelated with Dangerous

than irreligious participants. They showed precedent, more negative

general pattern of results identified in factors respectively. Similarly, Cantal and However, self-identified Christians Figures 1a to 1e. Exceptions were the colleagues (2015) similarly found that were also less likely to see the world as than Christian was a strong direct positive groups, and both Cantal and colleagues participants and, importantly, there wasn't predictor of, and explaining an additional (2015) and Duckitt and Sibley (2007) any reason to think that the utility of the 14% of variance in, attitudes towards reported that RWA was a stronger DPM in predicting attitudes towards Christians) and Atheists (where being negative predictor of attitudes towards Muslims (or Hindus or Jews) was Christian was a strong direct negative both dangerous and dissident groups, than moderated by Christian identification. This is consistent with the notion that, Working backwards then, maybe Jews while religiosity and prejudice are are derogated, Atheists are dissident, and typically found to be correlated in Muslims are... what? Given that both Western populations, this association may SDO and RWA negatively predict be completely mediated by RWA or fundamentalism religion, because literal

> Since the events of March 15th, the antipathy. United States. The results reported here comprises two people on the basis of affiliation with that Jews, while SDO predicts negative anti-Islam Perhaps importantly, while RWA predicts positive attitudes

and Competitive is, on average, a more important predictor The aim of this research was not to focus respectively. It is common to see that Jews, compared to the RWA arm. Indeed, Muslim attitudes, but religion proved to Worldviews, albeit much more weakly Dangerous Worldviews and RWA were be an important consideration in several than with Competitive Worldview, while towards Christians and Atheists, and notably more authoritarian, threatened, Competitive Worldviews and, again, statistically unrelated to attitudes towards and to a lesser extent, social dominant, more weakly than with its theoretical Dangerous Given the theoretical foundations of the a pronounced, and un-surprising, in-group Among Christians, in this sample, the DPM, and the body of research that has bias in their attitudes towards Christians, DPM components more cleanly reflect

> At the same time, it should be towards acknowledged that these analyses are

impossible to disentangle dimensionality of attitudes towards these issue, the answer will be forthcoming. groups to better identify the relationships between DPM variables and those facets (e.g., Uenal, 2016), but the short scales Adorno, T. W., Frenkel-Brunswik, E., will inevitably under- or over-represent particular facets of these predictors. For example RWA, in particular, is a heavily content-driven scale with explicit mention of particular groups and biblical references. While RWA is theorised to comprise of three related components (Altemeyer, 2981), these are not easily separable into subscales to further determine whether, for example, the strong RWA-related antipathy towards Muslims is driven by one or a combination of authoritarian aggression, submission or conventionalism.

That this sample reported weakly negative attitudes towards Muslims isn't a surprise as it is consistent with previous research here (e.g., Highland et al., 2019; NZES, 2002) and elsewhere (e.g., Velasco et al., 2010; Clements, 2012). Neither is the finding that SDO and RWA are associated with less negative attitudes. What then, are the implications for improving perceptions of Muslims in New Zealand? First, we may understand a little better the basis for this antipathy – threatening both social order and hierarchy, potentially justifying the craft of dual process-informed interventions. Additionally, as Shaver, Sibley, Osborne and Bulbulia (2017) have shown that increasing news exposure is associated with increasing anti-Muslim prejudice in New Zealand, the media may play an important role in this. At the same time, news exposure predicts slightly more anti-Arab, but not anti-Asian prejudice, which they identify as somewhat paradoxical given that the majority of Muslims in New Zealand are Asian, rather than Arabic.

While media-propagated images of collapsing towers and bloodied American faces has been associated increasingly negative attitudes towards Muslims, the events in Christchurch showed Muslim targets of violence. Is it too much to hope that the increased prejudice towards Muslims following atrocity perpetrated by Islamic extremists (e.g., Huddy & Feldman, 2011; Morgan, Wisneski, & Skitka, 2011; Vasilopoulos, Marcus, & Foucault, 2017) might remediate in the face of an event in which atrocity has been perpetrated against Muslims? I anticipate that, thanks to longitudinal research (like the NZAVS) and the continued efforts of researchers,

the some of whose work is represented in this Cantal, C., Milfont, T. L., Wilson, M. S., &

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