

**Attitudes towards prisoner-to-prisoner bullying and the association with prison environments: Examining the components.**

Journal:	<i>Journal of Aggression, Conflict and Peace Research</i>
Manuscript ID	JACPR-05-2015-0172.R2
Manuscript Type:	Empirical Paper
Keywords:	prison bullying, prisoners, prison officers, attitudes to aggression, aggressive environments, prison aggression

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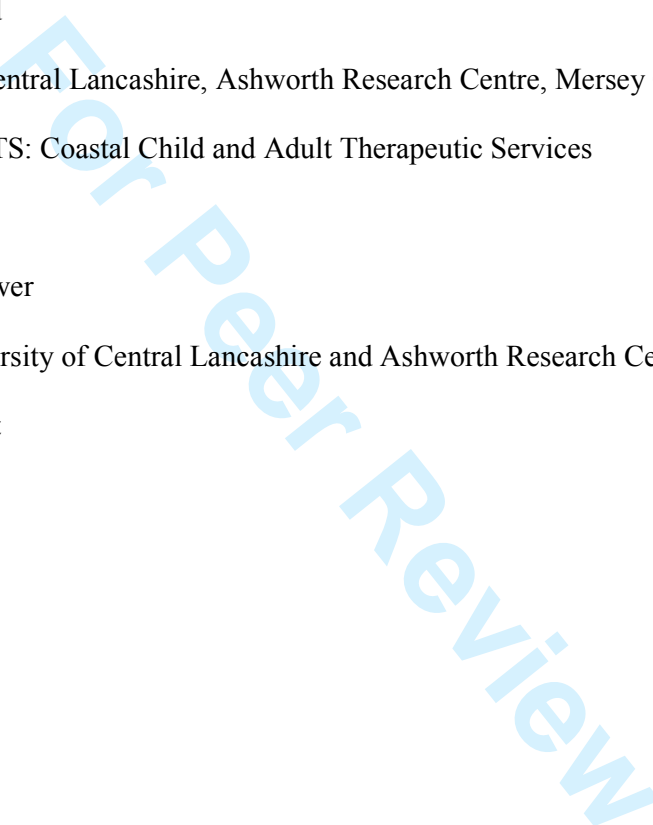
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Attitudes towards prisoner-to-prisoner bullying and the association with prison environments: Examining the components.

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## Abstract

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Purpose: The research aims to examine attitudes towards prisoner-to-prisoner bullying, further considering the association between attitudes and characteristics of the prison environment thought to promote prisoner bullying.

Methodology: Questionnaires were administered to 423 adult male prisoners and 195 correctional officers from three prisons in Canada. Participants completed the Prison Bullying Scale (PBS) and the Prison Environmental Scale (PES).

Findings: Convergence in attitudes between prisoners and officers were noted although staff were more likely to consider bullies to be skilled, whereas prisoners were more likely than officers to feel that victims of bullying should be supported. Associations between attitudes supportive of bullying and environmental characteristics likely to promote prison bullying were found primarily among prisoners; the strongest predictors of such attitudes were poor relationships (e.g. prisoner to officer; prisoner to prisoner).

Research implications: The study highlights the importance of the social aspect of the prison environment. It further provides an outline of two measures that could have utility in evaluating interventions designed to reduce prisoner-to-prisoner bullying.

Originality/value: The study is the first to examine attitudes in a combined sample of prisoners and officers and focuses on the role of the wider prison environment. It also utilises a sample from three prisons as opposed to focusing on a single establishment.

## Introduction

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Researchers have begun to suggest that prison bullying is well researched (e.g. Nelson, Woodhams & Hatcher, 2010). This may represent a generous interpretation of a literature base that has been in existence for almost two decades (Ireland & Archer, 1996; Connell & Farrington, 1997) but has actually produced only a limited range of papers across such a considerable period of time. It would further appear that papers on this topic in more recent years have failed to properly convey an understanding of the definitional challenges in this area, drawn conclusions by considering a selective review of available research, argued for the need to consider particular variables without any attention to theory, concluded that certain areas of research have not been addressed when in fact they have, or focused on very small datasets, claiming their work is sufficiently novel to allow for this (e.g. Kiriakidis, 2010; Nelson et al, 2010; Wood, Moir & James, 2009).

Consequently, it would seem that in recent years studies and reviews are emerging that offer little to advance this important research topic. The focus on descriptive research, devoid of theory, is one of the most concerning elements of this research base. Earlier research could be forgiven the absence of a theoretical base since there was virtually no research to guide theory. This argument no longer holds and consideration of random variables alongside bullying that is not guided by theory does nothing to progress this important area of study.

Regardless of the relatively slow rate of progress in research, bullying in prisons remains an important topic worthy of increased attention. For example, if asked about perceptions of bullying as a problem some studies produce estimates of bullying as high as 81 per cent (Dyson, 2005). If asking directly 'Have you bullied/been bullied' estimates will drop to around ten to twenty per cent (Ireland, 2012). If behavioural checklists are used (where the term bullying is avoided but abusive behaviours are captured discretely), then estimates are as high as 65 per cent

1 reporting perpetration *in the past month* and 81 per cent reporting victimisation in the  
2 past month (Chan & Ireland, 2009), with other studies reporting rates of 39 per cent  
3 for perpetration and 60 per cent for victimisation *in the past week* (Wood et al, 2009).  
4  
5 Considering the size of the prison population in the UK (where virtually all research  
6 has been completed), this would produce *minimum* estimates of around 9,000  
7 prisoners being bullied in any given month if asked directly about their experiences,  
8 and a *maximum* of 69,000 prisoners reporting at least one behaviour that could be  
9 considered bullying in any single month (based on UK prison population figures for  
10 the 15<sup>th</sup> May 2015).  
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21 These are startling estimates that question why research has been so limited in  
22 quantity and scope. Some studies have certainly attempted to progress the area by  
23 moving beyond descriptive research to offering some theoretical interpretations of the  
24 behaviour (e.g. Ireland & Archer, 2002; South & Wood, 2006; Wood et al, 2009;  
25 Archer & Southall, 2009). Most recently this has led to the development of the  
26 *Multifactor Model of Bullying in Secure Settings* (MMBSS; Ireland, 2012), a revised  
27 version of the earlier *Interactional Model of Prison bullying* (IMP: Ireland, 2002).  
28 The MMBSS attempted to integrate the literature on prison bullying with the wider  
29 aggression literature and factors known to promote aggression (e.g. *General*  
30 *Aggression Model*, GAM: Anderson & Bushman, 2002 and the *Integrated*  
31 *Information Processing model*, Huesmann, 1998). The product was a model that  
32 accounted for individual characteristics and the wider social and physical environment  
33 known to promote prison bullying.  
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50 The MMBSS describes how the route to perpetrating bullying can be via two  
51 core pathways, both informed by the social environment. One pathway (*'environment*  
52 *and prior characteristic'*) considers bullying as a function of the individual  
53 characteristics of the prisoner and the unhelpful aspects of both the social *and*  
54 physical environment. This includes, for example, restrictions on material goods, low  
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1 spatial density, relational security [physical environment], hierarchal structures, low  
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3 attachments and high social density [social environment]. The pathway argues for an  
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5 interaction between unhelpful individual characteristics (e.g. impulsivity, considerable  
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7 experience of secure care), and the environment prisoners find themselves as the  
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9 factors that raise the propensity for bullying. The other MMBSS pathway is termed  
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11 the '*desensitisation pathway*'. Here, the contextual factors associated with aggression  
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13 (e.g. perceived risk of aggression in the environment; frequency of aggression in the  
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15 environment; limited options to deal with aggression), coupled with a higher  
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17 perceived threat of aggression, creates desensitisation to aggression. This pathway is  
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19 thought to enhance pre-existing stable but potentially changeable individual  
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21 characteristics (in the form of beliefs and attitudes) likely to encourage aggression and  
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23 lead to victim blaming and attitudes that minimise the consequences of bullying for  
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25 victims. There is an expected crossover between both pathways in the MMBSS but  
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27 what is common is the importance of the environment and in particular attitudes.  
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32 Attitudes are thus integral to models describing bullying within prison  
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34 settings, forming a key component of the social environment. Some research has  
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36 explored the role of attitudes in prison bullying (e.g. Connell & Farrington, 1996;  
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38 Ireland, 1999; Dyson, 2005; Spain, 2005; Ireland, Power, Bramhall & Flowers, 2009).  
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40 Such attitudes have been found to be multidimensional, with Ireland et al (2009) noting  
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42 the following core attitudinal components; justification of bullying; negative views  
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44 towards victims; negative views towards bullies; respecting bullies and the consequences  
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46 of their actions; bullies as strong and skilful; victims seeking attention; and victims  
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48 deserving of bullying. A positive association between bullying perpetration and  
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50 aggression supporting beliefs, including victim-blaming beliefs (e.g. Ireland, 1999), has  
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52 been reported.  
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56 Nevertheless, research into the attitudinal component of the social environment  
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58 of prisons has been remarkably limited and centred on attitudes held by prisoners (e.g.  
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1 Ireland et al, 2009). It has failed to capture the wider social environment, such as prison  
2 officer attitudes, or to consider how attitudes may be associated with the environment  
3 more broadly. This is important since models such as the MMBSS place considerable  
4 emphasis on attitudes and yet we know only a limited amount concerning their content,  
5 structure and presence across the prison environment.  
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11 Interventions on prison bullying would also benefit from more exploration of this  
12 area. There is an absence of evaluation of bullying interventions in the prison literature  
13 (Kiriakidis, 2010) and yet the development of measures could assist evaluation.  
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18 Examining further environmental measures, namely those that incorporate an attitudinal  
19 component that can be applied across prisoners and staff, would seem to represent a  
20 particularly valuable avenue of research to pursue.  
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25 The current research aims to address this neglected area of study by exploring  
26 attitudes towards prisoner-to-prisoner bullying in a sample of male prisoners and a  
27 sample of prison officers from three prisons in Canada<sup>1</sup>. It aims to consider the factors  
28 that comprise attitudes and how attitudes are associated more broadly with the social and  
29 physical environmental characteristics thought to promote bullying among prisoners.  
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36 The following core predictions are made:  
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- 39 1.) Attitudes supportive of prison bullying will be positively associated with  
40 perceptions of the social and physical components of the environment thought to  
41 promote bullying;  
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- 45 2.) There will be no overall differences between the attitudes expressed towards  
46 bullying by prisoners and officers, by virtue of them sharing the same  
47 environment.  
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58 <sup>1</sup>Data exploring bullying and gang related behaviours were also collected but published as part of a  
59 separate paper (Ireland & Power, 2012). The data presented in the current paper, aside from sample  
60 description, is distinct in focus.

## Method

## Participants

Participants were sampled from three separate establishments in one region in Canada. It included two medium secure establishments (Prisons A and B) and one high secure (Prison C). All establishments followed the same standard structural format (i.e. cell based accommodation) and all housed male prisoners.

Six hundred and eighteen questionnaires were returned; 423 questionnaires from adult male prisoners (222 from Prison A; 66 from Prison B and 135 from Prison C). One hundred and ninety five questionnaires were returned from prison officers (116 Prison A; 38 Prison B; 41 Prison C). For Prison A this represented 54% of the total prison officer population and 40% of the total prisoner population at the time of sampling; For Prison B it represented 20% of the total prison officer population and 13% of the total prisoner population at the time of sampling; For Prison C this represented 17% of the total prison officer population and 28% of the total prisoner population at the time of sampling.

The average age of prisoners was 34.6 years (sd 10.2), average total time served in prison was 110 months (sd 93.6), and length of current sentence 63.8 months (sd 93.6). Across offences, 50.6% were serving for a violent offence, 16.1% for a drug-related offence, 14.9% for an acquisitive offence, 2.8% for a sex offence and 5.7% for an 'other' offence (9.9% did not indicate their offence type). The average age of officers was 37.3 (sd = 9.0), average length of time serving as a prison officer was 107.3 months (sd = 112), and average length of time serving within the prison of interest was 96.9 months (sd = 106). Seventy-six percent of the officer sample were men. Tables 1 and 2 present prisoner characteristics across establishments.

<Insert Table 1 here>

<Insert Table 2 here>

1 There were no significant differences with regard to officer variables across  
2 prison sites (all  $F$ 's  $\geq 2.16$ ns). Regarding prisoners, there was a significant difference  
3 with regards to age; Prison A had significantly younger prisoners than Prisoner B ( $p$   
4  $<.02$ ) and Prisoner C ( $p <.04$ ). Significant differences were also found across prison  
5 sites with regards to offence type ( $X^2 = 27.1$ ,  $p <.003$ ); Prison A presented with the  
6 higher proportion of drug-related offences than Prison C, and had the lowest  
7 proportion of prisoners currently convicted for violence.  
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### 16 Measures

17 Prisoners and officers completed the following measures:  
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20 Prison Bullying Scale (PBS: Ireland et al, 2009). This 39-item measure  
21 explores attitudes towards prisoner-to-prisoner bullying. It is scored on a scale  
22 ranging from 1 (strongly disagree) to 7 (strongly agree). Example items include “you  
23 should not pick on someone weaker than you” and “victims usually cause the bullying  
24 to happen”. A higher score indicates attitudes supportive of bullying.  
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32 Prison Environmental Scale (PES: Allison & Ireland, 2010). This 40-item  
33 measure contains statements reflecting physical and social environmental factors  
34 thought to promote bullying in prisons. It draws on the components of the MMBSS to  
35 identify the relevant social and environmental factors. Thus, physical factors covered  
36 material goods, changes in the prisoner population, the frequency and visibility of  
37 staff supervision and lack of stimulation. Social factors covered the organisational  
38 structure, the prisoner subculture, attitudes towards bullying, and power and  
39 dominance structures. Each item is scored on a scale ranging from 1 (strongly  
40 disagree) through to 5 (strongly agree). Example items include “there is not much  
41 physical space” and “there is an emphasis on prison rules and regulations here”. The  
42 scale focuses on perceptions of their current prison, with a higher score indicating  
43 more factors associated with a raised environmental propensity for bullying.  
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## Procedure

With prisoner participants, a member of staff administered all questionnaires during a lock-down period. This was completed at one time point in the same month to ensure all prisoners were approached that were present at that time. All prisoners available at the time of sampling were approached and invited to participate. Prisoners completed the questionnaires in their cell on their own and these were then returned. Prison officers were provided with a copy of the questionnaires at the start of their shift and asked to complete it by the end, again at one time point in the same month. The questionnaires were anonymous. All analyses were conducted using SPSS.

## Results

Results are presented with regards to attitudes first (PBS), followed by the environment scale (PES), before considering how attitudes and the environment may relate. Each set of analyses also explores the structure of the PBS and the PES.

### Attitudes towards prison bullying

The PBS was found to be internally reliable (prisoners:  $\alpha = .83$ , 39 items,  $n = 343$ , 80 missing; officers:  $\alpha = .79$ , 39 items,  $n = 184$ , 11 missing; overall  $\alpha = .82$ , 39 items,  $n = 527$ , 91 missing). Scores on the PBS ranged from 39 to 226. Mean scores are presented in Table 3.

<Insert Table 3 here>

There were no significant differences between prisoners and officers regarding total PBS attitudes ( $F = .86$  ns). There were also no differences across prison site ( $F$ 's  $\geq .86$  ns).

### Structure of attitudes towards bullying

The structure of the PBS was examined using factor analysis. In order to more strictly identify the number of factors evident, Parallel Analysis (PA) was employed. This analysis indicated four factors across the overall sample (prisoners and officers), with no indication of a need to complete separate factor analyses for prisoners and officers. This was also confirmed via a scree plot. The factor analysis therefore proceeded restricting the analysis to four factors. Principal Components Analysis with Varimax Rotation was employed. The results are presented in Table 4. Only one item failed to load above .40, namely 'once someone is a bully, they are always going to be a bully'. This was therefore removed from the analysis. With regard to each factor, factor one comprised 14 items with a theme of 'admiring bullies and negatively appraising victims'; factor two comprised 10 items with a theme of 'supporting and defending victims'; factor three comprised nine items with a theme of 'justifying bullying and considering victims as deserving of bullying'; factor four comprised five items with a theme of 'bullies as skilled'.

<Insert Table 4>

Factor scores were then computed to allow the attitude totals to be used in further analyses. To compute a factor score only items loading above .50 were included, in accordance with the recommendation from Tabachnick & Fidell (2013). Adopting higher factor loadings when creating *factor scores* ensures that what is included in the factor score are only those *most representative* of that factor and those items only loading onto a single factor<sup>2</sup>. This resulted in 13 items comprising factor one, nine comprising factor two, seven for factor three, and two for factor four. The totals are presented in Table 5. Higher scores indicate more support for the factor.

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<sup>2</sup> The factor analysis tables still present all item loadings so readers can determine what was not included in the factor score.

1 <Insert Table 5>

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3 Differences between prisoners and officers were explored using ANOVA  
4  
5 across each PBS factor. Significant differences were limited to the factors ‘supporting  
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7 victims’ ( $F = 6.51, p < .001$ ), and ‘bullies as skilled’ ( $F = 10.6, p < .001$ ). Prisoners  
8  
9 reported more positive attitudes than officers with regard to supporting victims, with  
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11 officers more likely to consider bullies to be skilled. There were no differences across  
12  
13 prison site ( $F$ 's  $\geq 2.64$  ns).

#### 14 15 16 The role of the prison environment

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18 The PES focused on the social and physical aspects of prison environments  
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20 thought to increase the propensity for aggressive behaviour between prisoners. It  
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22 proved to have moderately high reliability across samples (overall  $\alpha = .74, n = 514$ ;  
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24 prisoner  $\alpha = .78, n = 330$ ; officer  $\alpha = .67, n = 184$ ). Table 6 illustrates the means for  
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26 the PES overall and for prisoners and officers.  
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32 <Insert Table 6 here>

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36 There was a significant difference across groups (prisoners vs. officers) ( $F =$   
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38  $7.37, p < .007$ ). Officers reported higher scores on the PES than prisoners, indicating  
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40 that they were more likely to identify aspects of the prison environment that  
41  
42 encouraged bullying. There was also a significant difference across prison sites, with  
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44 Prison A presenting with higher scores than the remaining prisons ( $F = 4.31, p < .01$ )  
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#### 50 Structure of the Prison Environment Scale (PES)

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52 In order to determine if specific elements of the environment distinguished  
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54 between sites, the structure of the PES was examined using factor analysis. Parallel  
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56 Analysis (PA) was employed to identify the number of factors. This analysis  
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58 indicated six factors, with similarity across samples. Thus a single factor analysis was  
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1 completed, restricting the analysis to six factors using Principle Components Analysis  
2 with Varimax Rotation. The results are presented in Table 7. Six items failed to load  
3 above .40, indicating a 34-item scale. The items failing to load were as follows; there  
4 is enough personal space; prisoners know the other prisoners around them long  
5 enough to trust them; there is an emphasis on prison rules and regulations here; rules  
6 telling prisoners what they can have are clear; the opportunity to have social contact is  
7 good; and prisoners won't back down if challenged.  
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9  
10 The analysis therefore proceeded with a 34-item scale. The variance  
11 contribution of each factor is illustrated in Table 8. With regard to each factor: factor  
12 one comprised 11 items with a theme of 'existence of a hierarchy and importance of  
13 material goods'; factor two comprised seven items with a theme of 'lack of access to  
14 activities and space'; factor three comprised three items with a theme of 'predictable  
15 staff supervision'; factor four comprised four items with a theme of 'core beliefs:  
16 accepting bullying'; factor five comprised four items with a theme of 'lack of  
17 control', specifically the absence of reliance on security and control and reduced  
18 penalties for poor behaviour; factor six comprised four items with a theme of  
19 'prisoner and staff relationships', with the items most representative of this indicating  
20 *poor* relationships.  
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48 Factor scores were computed to allow the factor totals to be used in further  
49 analyses. To compute a factor score only items loading above .50 were included  
50 (Tabachnick & Fidell, 2013). These resulted in nine items comprising factor one; five  
51 items comprising factor two; three items comprising factor three; three items  
52 comprising factor four, and two items for factors five and six. The totals are  
53 presented in Table 8. Higher scores indicate more support for the factor.  
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1 <Insert Table 8>

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3 Differences between prisoners and officers were explored using ANOVA.  
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5 There was a significant difference with regard to the factor 'existence of a hierarchy  
6 and importance of material goods' ( $F = 72.4, p < .0001$ ), with officers reporting  
7  
8 higher perceptions of hierarchy and trading than prisoners. There was also a  
9  
10 significant difference with regard to the factor 'lack of access to activities and space'  
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12 ( $F = 177.9, p < .001$ ), with prisoners reporting higher perceptions of an absence of  
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14 activities than officers.  
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18  
19 Prison A presented with higher scores than prison C in relation to 'existence of  
20 a hierarchy' ( $F = 3.72, p < .03$ ). There was also a difference across prison sites in  
21  
22 relation to 'predictable staff supervision' ( $F = 6.93, p < .001$ ), with prison A presenting  
23  
24 with higher scores than prison B ( $p < .001$ ), and prison C with higher scores than  
25  
26 prison B ( $p < .001$ ). 'Core beliefs: accepting bullying' ( $F = 6.34, p < .002$ ) were also  
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28 higher in prison A than prison B ( $p < .02$ ) and prison C ( $p < .005$ ).  
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### 32 Association between the prison environment and attitudes towards bullying

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34 Correlations were produced across total and factor scores on the PBS and for  
35  
36 the PES. Significant correlations were limited and of small magnitude. There was a  
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38 small correlation between high total PBS and high total PES scores ( $r = .16, p < .001,$   
39  
40  $n = 454$ ), with the total PES score also positively correlating with the PBS subscales  
41  
42 'admiring bullies and negatively appraising victims' ( $r = .14, p < .002, n = 471$ ) and  
43  
44 'justifying bullying and considering victims deserving of bullying' ( $r = .24, p < .001, n$   
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46  $= 482$ ).  
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50 Unsurprisingly the majority of correlations were between the PES subscale  
51  
52 'core beliefs accepting bullying' and the PBS, with positive correlations between this  
53  
54 subscale and the PBS total ( $r = .27, p < .001, n = .49$ ), and with the PBS subscales of  
55  
56 'justifying bullying and considering victims as deserving of bullying' ( $r = .25, p$   
57  
58  $< .001, n = 528$ ), and 'admiring bullies and negatively appraising victims' ( $r = .28, p$   
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1 <.001, n = 513). There was a negative correlation between the PES subscale core  
2 beliefs and the PBS subscale 'supporting and defending victims' ( $r = -.16, p <.001, n$   
3 = 527).  
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7 There were also significant positive correlations between the PES subscale  
8 'predictable staff supervision' and the PBS subscale 'justifying bullying and  
9 considering victims as deserving of bullying' ( $r = .11, p <.01, n = 525$ ), and between  
10 the PES subscale 'prisoner and staff relationships' and the PBS subscale 'supporting  
11 and defending victims' ( $r = .13, p <.003, n = 524$ ).  
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18 There was further consideration of the extent to which aspects of the prison  
19 environment, as measured by the PES, were related to attitudes towards bullying. It  
20 was assumed that the prison environment was influencing attitudes rather than the  
21 reverse. This was considered overall and separately across prisoners and officers  
22 using regression analyses. In light of the correlations between the PES subscale 'core  
23 beliefs' and the PBS this particular subscale was excluded from the analysis. The  
24 regression continued therefore with the PBS total score as the variable regressed onto  
25 and with the remaining five PES subscales as the potential predictors (i.e. existence of  
26 a hierarchy and importance of material goods; lack of access to activities and space;  
27 predictable staff supervision; lack of control; and prisoner and staff relationships).  
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41 The overall regression comprising the total sample (prisoners and officers) did  
42 not produce a significant model ( $F = 1.78$  ns). Consequently, two further regressions  
43 were completed, across officers and prisoners respectively. The model in relation to  
44 officers was not significant ( $F = 1.49$  ns). For prisoners, however, a significant model  
45 was produced ( $F = 4.12, p <.001$ ). Overall attitudes towards bullying were predicted  
46 by the following PES subscales; higher 'existence of a hierarchy and importance of  
47 material goods' ( $B = 1.05, SE .36, t = 2.9, p <.003$ ), lower perception of a 'lack of  
48 control' ( $B = -3.09, SE 1.43, t = 2.16, p <.03$ ) and poorer 'prisoner and staff  
49 relationships' ( $B = 3.46, SE 1.1, t = 3.19, p <.002$ ).  
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## Discussion

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The current study provides an indication of the nature of attitudes and components of the social and physical environments that are associated with unhelpful attitudes supporting prison bullying. There was overall convergence between prisoners and officers on the attitudinal and environmental measures but interesting differences emerged in the association between these measures. For example, as predicted, there was a positive association between overall attitudes supportive of bullying and the aspects of the prison environment thought to increase the risk for prison bullying. Although the magnitude of this relationship was small it nevertheless supported the theoretical argument put forward by interactional models of prison bullying (Ireland, 2005; Ireland, 2012), namely that if the environment has characteristics likely to raise the risk for bullying then attitudes supporting bullying would similarly co-exist. However, on further exploration the environmental predictors of attitudinal components were restricted to prisoners and to specific components.

This restriction to prisoners is perhaps unsurprising since prisoners would be expected to perceive the broader prison environment in somewhat distinct terms to prison officers. The limited components of the environment shown to predict attitudes was, nevertheless, surprising and suggests that only discrete elements of the environment may be important. Among prisoners, for example, attitudes were predicted by a perception that the environment promoted hierarchy and placed importance on material goods, with an absence of enforced penalties for negative behaviour and poor relationships with others. Although aspects of both the social *and* physical environment were presenting as important, it did appear that the social aspects (e.g. relationships, hierarchy) were particularly important components. This fits with expectations of the interactional models (e.g. MMBSS, Ireland, 2012; IMP,

1 Ireland, 2002) but places emphasis on the role of the social environment. It suggests  
2 that focusing on community relationships (i.e. social hierarchies, relationships) may  
3 hold some value for prison-wide bullying interventions. The current study points to  
4 the importance of developing a healthy social environment in that an unhealthy social  
5 environment where individuals lack good relationships, feel unsafe and where  
6 dominance hierarchies are higher appeared particularly predictive of attitudes  
7 supportive of prison bullying.  
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10 The role of the social environment here is thus consistent with the concept of a  
11 'healthy community' where behaviour (i.e. bullying) is not pathologised as an  
12 individual problem but treated as a community issue. This is not a new concept and  
13 has been highlighted as valuable in prison research (Ireland, 2008; Ireland, 2012). It  
14 could, nevertheless, be argued that considerably more effort should be spent on  
15 developing healthy communities than on efforts centred on individual approaches to  
16 dealing with bullying (e.g. perpetrator programmes; victim support programmes).  
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18 The current study lends some tentative support for this by highlighting how the  
19 broader elements of the environment are related to unhelpful attitudes towards  
20 bullying, particularly among the prisoner community. The current findings also touch  
21 upon a factor that is not well articulated within the MMBSS, namely that of  
22 atmosphere and the importance of perceiving the environment to be a safe one where  
23 negative behaviour is monitored and addressed through appropriate sanctions. The  
24 presence of such factors appears to be promoting unhelpful attitudes towards bullying  
25 and yet does not present as an explicit factor in the interactional models. Rather, it  
26 appears more implicit and part of wider factors. The current study suggests value in  
27 articulating the concept of a safe atmosphere as an explicit component of the  
28 environment to consider.  
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31 A further important element of the current study that is important not to  
32 neglect is its examination of both prisoners and officers. The *combination* of these  
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1 two populations has not been accounted for in previous research. The absence of  
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3 officers as an important component of the research into prisoner-to-prisoner bullying  
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5 is an interesting omission considering how officers are integral to the social  
6  
7 environment of a prison and enforce many aspects of the physical environment.  
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9 Models of prison bullying have long argued for attention to be increased on the  
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11 environmental factors associated with prison bullying (Ireland, 2005; Ireland, 2012) in  
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13 an attempt to avoid an over-focus on individual pathology models of prisoner-to-  
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15 prisoner bullying. Thus, incorporating officer samples appears an essential  
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17 component and adds to the developing literature on attitudes towards prisoner  
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19 bullying (e.g. Connell & Farrington, 1996; Dyson, 2005; Spain, 2005; Ireland, 1999;  
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21 Ireland et al, 2009). It also fits with an emerging factor in the PES scale, namely  
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23 ‘prisoner and prisoner-to-staff relationships’, with this a core predictor for attitudes  
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25 supportive of bullying. Thus, the importance of considering relationships with staff is  
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27 clearly indicated.  
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32 As noted earlier, what the current study has indicated is the convergence  
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34 between prisoners and officers on overall attitudes supportive of prison bullying, thus  
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36 supporting the prediction. The similarity in attitudes between prisoners and staff  
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38 highlights the influence of the social environment as an important and shared feature  
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40 of prison environments. This supports models such as the MMBSS that describe the  
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42 social environment as a *shared* feature across prisoners and staff and not one that is  
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44 necessarily experienced differently in accordance to whether you are a resident within  
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46 the environment or an employee.  
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50 There were though some specific and isolated differences between prisoners  
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52 and staff emerging when the underlying factors of attitudes were considered.  
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54 Specifically, prisoners were found to express more supportive attitudes towards the  
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56 victims of bullying than officers, with officers holding the belief that bullies were  
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58 skilled. It is certainly possible that prisoners were more supportive of victims because  
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1 of a higher risk of being victimised themselves and consequently their resulting ability  
2 to empathise with victims, whereas officers are able to adopt a more detached  
3 perspective. The concept of a 'skilled bully' is also interesting since this can  
4 represent a myth when it is considered that most bullies are also victims (Chan &  
5 Ireland, 2009) who display a range of negative externalising behaviours indicative of  
6 poor coping. However, this is all speculative interpretation based on the evidence  
7 indicated in the current study.  
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10 Nevertheless, the broad convergence on overall attitudes within the social  
11 environment (i.e. the similarity between prisoners and officers) remains valuable to  
12 consider since it suggests it is possible to produce a standardised means of measuring  
13 attitudes towards bullying that can be used uniformly across the social population of a  
14 prison, namely with both staff and prisoners. Such measures would have considerable  
15 utility in evaluating intervention programmes designed to reduce prison bullying, with  
16 this a noted area of need (Kiriakidis, 2010). Of course, future research will be  
17 interested in the individual factors that may influence attitudes supporting bullying,  
18 such as prior experiences with institutional care, to determine if such factors need to  
19 be accounted for. This would prove a valuable consideration for future research.  
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22 Of further interest were the findings in relation to *the structure of the Prison*  
23 *Environment Scale (PES)*. As for attitudes, it suggested that such a broad concept is  
24 not represented by a unitary factor but is multidimensional (Allison & Ireland, 2010).  
25 This is in keeping with the MMBSS model of prison bullying that supports the  
26 separation of components (as opposed to using global descriptions) in order to better  
27 specify the pathways to bullying. The PES was found to comprise six factors;  
28 existence of a hierarchy and importance of material goods; lack of access to activities  
29 and space; predictable staff supervision; core beliefs accepting bullying; lack of  
30 control; and [poor] prisoner and prisoner-to-staff relationships. Differences between  
31 prisoners and officers were limited to only two components; officers were more likely  
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1 than prisoners to report a perception of hierarchy and trading, with prisoners more  
2 likely than officers to report a lack of activities.  
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5 The study is not, however, without its limitations. Although all prisoners and  
6 officers at the time of the study were invited to take part it is not possible to indicate  
7 how representative they were of the wider prisoner/staff population at the time of  
8 sampling as this information was not available to the research team. In addition, there  
9 was some missing data to acknowledge and a low response rate, but this still retained  
10 a large enough sample to utilise. It was also focusing on the components of attitudes  
11 and environments thought to contribute to prison bullying that were consistent with  
12 the MMBSS; it was not seeking to address the pathways aspect of the MMBSS or  
13 determine a casual association since this would require a longitudinal component.  
14 This could perhaps represent a direction for future research. The current study was  
15 also limited by a focus on self-report measures to examine attitudes and  
16 environmental components that are open to reporting biases. Obtaining confirmation  
17 of the perceptions of the environment that were being reported (e.g. via record based  
18 information or observational data) would have improved the study. It would also  
19 have benefited from a wider application of measures and variables, and incorporation  
20 of both men and women across the samples (i.e. for prisoners as well as officers).  
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41 However, the current study represents a preliminary attempt to consider  
42 aspects of the social and physical environment that have received only limited  
43 attention previously, extending the sample to cover both officers and prisoners. It was  
44 also not restricted to a single prison setting, which has been a limitation of previous  
45 research. Instead, by examining three prisons covering medium to high security  
46 levels it was hoped to provide more generalisable findings. Future research could  
47 certainly look to expand on the measures collected, and perhaps to focus on the  
48 desensitisation pathway of the MMBSS model in more detail by considering the role  
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1 of emotion and how this may associated with attitudes and the other environmental  
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3 factors linked to prison bullying.  
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5 Overall the study provides some initial consideration of the components of  
6 attitudes relevant to bullying and their association with the environment, indicating  
7 convergence between prisoners and officers across most components. Despite broad  
8 similarity it does indicate how perceptions of the environment by prisoners may be  
9 predicting attitudes supportive of prison bullying. It suggests that interventions may  
10 be most effective in tackling the environmental aspects of prison settings that may be  
11 raising the propensity for unhelpful attitudes towards bullying.  
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#### 24 Practical implications

- 25 • Interventions into prisoner-to-prisoner bullying should attend to the wider  
26 environment and not focus solely on individual pathology approaches.  
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- 28 • A 'whole prison' approach to intervention should be adopted, with recognition  
29 that officers *and* prisoners are part of the community.  
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- 32 • A focus on the perceived relationships between all those in this community  
33 requires consideration, with a community centred approach recommended for  
34 intervention.  
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- 40 • A concentrated effort is needed on evaluating and publishing interventions into  
41 prisoner-to-prisoner bullying.  
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Table 1. Description of prisoner sample with regards to age, total time served in months, and length of sentence.

Prison	Prisoner descriptive information					
	Age (years)		Total time served (mths)		Length of sentence (mths)	
	Mean (n)	Range (s.d.)	Mean (n)	Range (s.d.)	Mean (n)	Range (s.d.)
Prison A (n = 222)	33.1 (213)	18-70 (10.1)	104 (203)	1-408 (84.6)	66.6 (201)	1-442 (53.3)
Prison B (n = 66)	37.2 (64)	21-61 (10.4)	114.9 (63)	2-396 (99.0)	66.7 (52)	24-300 (99.0)
Prison C (n = 135)	35.9 (127)	19-66 (10.0)	119.6 (126)	1-480 (104.1)	57.0 (108)	24-222 (45.0)
Overall (n = 423)	34.6 (404)	18-70 (10.2)	110 (392)	1-480 (93.6)	63.8 (361)	1-480 (93.6)

Table 2. Description of prisoner sample with regards to offence type.

Prison	Offence type									
	Violent		Sexual		Acquisitive		Drug- related		Other	
	%	(n)	%	(n)	%	(n)	%	(n)	%	(n)
Prison A	44.6	99	2.3	5	17.6	39	21.2	47	3.6	8
(n = 222; missing = 24/10.8%)										
Prison B	59.1	39	-	-	10.6	7	18.2	12	6.1	4
(n = 66; missing = 4/6.1%)										
Prison C	56.3	76	5.2	7	12.6	17	6.7	9	8.9	12
(n = 135; missing = 14/10.4%)										
Overall	50.6	214	2.8	12	14.9	63	16.1	68	5.7	24
(n = 423; missing = 42/9.9%)										

Table 3. Total PBS scores overall and for prisoners and officers.

<b>PBS Total</b>	<b>Mean (SD)</b>
Overall (n = 527, 91 missing)	107.5 (29.8)
Prisoners (n = 434, 80 missing)	108.2 (37.5)
Officers (n = 184, 11 missing)	107.5 (29.8)

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Table 4. Factor structure of the Prison Bullying Scale.

<b>Factor 1: Admiring bullies and negatively appraising victims (16.0% of variance)</b>	<b>Loading</b>
Prisoners who don't fit in deserve to be bullied	.70
I respect prisoners who can dominate others and get away with it	.67
Prisoners who can get away with bullying should be admired	.66
Victims don't deserve to have friends here	.66
I despise victims	.65
I wish I could dominate others and get away with it	.62
Prisoners only report bullying to get attention from other prisoners	.62
Victims usually enjoy getting bullied	.61
Victims can't be helped	.53
Its OK to spread rumours or to gossip about some prisoners	.53
Prisoners only report bullying to get attention from staff	.52
Victims ask to be bullied	.52
It can be quite funny to see prisoners get upset when they are being tormented by others	.52
Victims usually cause the bullying to happen	.50
<b>Factor 2: Supporting and defending victims (12.4% of variance)</b>	<b>Loading</b>
Its a good thing to help prisoners who can't defend themselves	.79
I like it when someone stands up for prisoners who are being bullied	.77
It makes me angry when a prisoner is picked on without reason	.72
Prisoners who are weaker than others should be helped	.70
Victims should be helped	.70
Bullying has a bad effect on the unit atmosphere	.59
Prisoners who bully others are childish	.57

1	You should not pick on someone who is weaker than you	.54
2		
3	Bullies are callous and care little about others	.46
4		
5	You shouldn't make fun of people who don't fight back	.44
6		
7		
8	<b>Factor 3: Justifying bullying and considering victims as deserving of</b>	<b>Loading</b>
9	<b>being bullied (11.2% of variance)</b>	
10		
11		
12	I can't stand prisoners who keep running to staff when someone picks on	.77
13	them	
14		
15		
16	Being bullied does some prisoners good	.65
17		
18		
19	Bullying would not happen if victims stood up for themselves more	.62
20		
21	It's OK to call some prisoners names	.61
22		
23		
24	Prisoners who are unable to look after themselves really annoy me	.61
25		
26	If a prisoner is going to let themselves be bullied, they deserve to be	.59
27	ridiculed	
28		
29		
30	Its ok to hit some prisoners	.54
31		
32		
33	Prisoners who are weak are just asking for trouble	.44
34		
35	I wouldn't be friends with prisoners who let themselves be pushed around	.42
36		
37	<b>Factor 4: Bullies as skilled (6.6% of variance)</b>	<b>Loading</b>
38		
39	Bullies are skilled at controlling others	.78
40		
41		
42	Bullies are physically stronger than other prisoners	.69
43		
44	Bullies are mentally stronger than other prisoners	.48
45		
46	It's better to be a bully than a victim	.46
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49	Bullies help to keep 'order' on the unit	.43
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Table 5. Factor scores for PBS factors: Overall and for prisoners and officers

PBS Total	Prison			Overall
	Factor 1	Factor 2	Factor 3	Factor 4
	Admire bullies	Support victims	Justify bullying	Bullies as skilled
	Mean (n/SD)	Mean (SD)	Mean (SD)	Mean (SD)
<b>Overall</b>	28.8 (547/13.7)	45.7 (563/8.6)	23.8 (565/9.5)	7.0 (568/3.3)
<b>Prisoners</b>	29.7 (356/14.5)	46.3 (373/9.3)	24.4 (374/10.0)	6.6 (378/3.3)
<b>Officers</b>	27.0 (191/11.8)	44.6 (190/6.9)	22.7 (191/8.4)	7.8 (190/3.1)

Table 6. Total PES scores overall and for prisoners and officers.

<b>PES Total</b>	<b>Mean (SD)</b>
Overall (n = 514, 104 missing)	134.1 (13.9)
Prisoners (n = 330, 93 missing)	132.9 (15.4)
Officers (n = 184, 11 missing)	136.3 (10.6)

For Peer Review

Table 7. Factor structure of the Prison Environment Scale (PES)

<b>Factor 1: Existence of a hierarchy and importance of material goods (13.0% of variance)</b>	<b>Loading</b>
A 'pecking order' exists between prisoners	.78
Prisoners at the top of the 'pecking order' have the most power and dominance	.72
Levels exist between prisoners based on how much control and influence they have	.69
It is important for prisoners to be seen as 'tough' by others	.66
Possessions are a valuable form of currency	.66
Prisoners that are seen as weak and vulnerable are at the bottom of the 'pecking order'	.60
Prisoners monitor what possessions other prisoners have	.58
The hierarchy seen in staff grades is seen between prisoners also	.56
Possessions are traded at high prices	.53
It's easy for prisoners to break the rules when there are a lot of other prisoners about	.50
Prisoners come into contact with many other prisoners everyday	.48
<b>Factor 2: Lack of access to activities and space (8% of variance)</b>	<b>Loading</b>
There are many meaningful activities to do*	.72
Prisoners feel bored because of the lack of activities to do	.63
Possessions are always provided when needed/requested*	.62
There are no activities to keep prisoners occupied	.62
There is not much physical space	.60
Staff think about prisoners circumstances when applying prison rules and regulations	.50
There is an emphasis on treating and releasing prisoners here	.47
<b>Factor 3: High predictability of staff supervision (6.5% of variance)</b>	<b>Loading</b>
Prisoners always know when staff will be present	.75
Prisoners always know where staff will be present	.70
Staff supervision is predictable	.60
<b>Factor 4: Core beliefs: Accepting bullying (6.2% of variance)</b>	<b>Loading</b>
Bullying can't be stopped so there is no point trying	.76
Bullying is just part of prison life, nothing can be done to stop it	.71
Victims deserve to be bullied	.67

1	Prisoners who bully receive respect	.48
2		
3	<b>Factor 5: Reduced control (4.9% of variance)</b>	<b>Loading</b>
4	There is [a lack of] emphasis on security and control here	.62
5		
6	Prisoners generally follow prison rules and regulations here*	.61
7		
8	Prisoners have nothing to lose by behaving badly	.45
9		
10	There are too many prisoners for staff to supervise well	.42
11		
12	<b>Factor 6: Prisoner and prisoner-to-staff relationships (4.8% of variance)</b>	<b>Loading</b>
13	Prisoners would help someone who is being bullied*	.52
14		
15	Prisoners talk to staff on a regular basis*	.51
16		
17	Prisoners would tell a member of staff if another had broken a prison rule or	
18	regulation*	.49
19		
20	There is [not] a high turnover of prisoners	.47
21		
22	There are [not] lots of new prisoners coming onto and leaving this unit	.42
23		

\*Items are reverse scored and thus the opposite of the statement relates to the factor.

Peer Review

Table 8. Factor scores on the Prison Environment Scale (PES): Overall and between prisoners and officers.

PES Factor	Samples		
	Prisoners	Officers	Overall
	Mean (n/SD)	Mean (n/SD)	Mean (n/SD)
<b>Existence of a hierarchy and importance of material goods</b>	31.9 (330/15.4)	37.2 (190/4.4)	33.7 (542/6.44)
<b>Lack of access to activities and space</b>	18.0 (367/4.0)	13.5 (193/3.3)	4.36 (560/16.5)
<b>Predictable staff supervision</b>	11.1 (369/2.9)	10.9 (191/2.5)	11.0 (560/2.8)
<b>Core beliefs: Accepting bullying</b>	7.1 (371/2.9)	7.1 (192/2.8)	7.1 (560/2.9)
<b>Lack of control</b>	6.4 (371/1.4)	6.8 (193/1.2)	6.6 (564/1.39)
<b>Prisoner and prisoner to staff relationships</b>	6.1 (367/1.8)	6.2 (192/1.4)	6.14 (559/1.72)