
Differentiating behavioural styles in cases of violent knife crime in England and Wales

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TITLE: Differentiating behavioural styles in cases of violent knife crime in England and Wales

ABSTRACT:

Knife-enabled crime in England and Wales has increased by 7% in the year ending December 2023. Such increases in incidents are cause for concern due to the potential for significant injury and loss of life. The current study aimed to propose a model of differentiation of offending across 70 cases of violent knife crime (VKC) committed in England and Wales between 2015 and 2020 to inform preventative strategies.

Incident data was collected from online news articles and offender, victim, and offence characteristics were recorded. Characteristics were subject to a non-metric multi-dimensional scaling procedure, Smallest Space Analysis (SSA) to differentiate behavioural styles.

Regional interpretation of the SSA identified three distinct themes (Intimate Partner Violence, Gang-Influenced, and Reactive Violence) that related to distinct styles of offending. Classification according to identified offence theme was possible for 69% of cases. Findings are discussed with reference to Social Identity Approach and Criminal Narrative Theory. Potential future research is discussed with recognition of the need to further differentiate offending behaviour in cases of reactive violence.

CUST_RESEARCH_LIMITATIONS/IMPLICATIONS_(LIMIT_100_WORDS) :No data available.

The theoretical and practical implications are discussed with consideration of how the findings may inform preventative strategies as part of a public health approach.

CUST_SOCIAL_IMPLICATIONS_(LIMIT_100_WORDS) :No data available.

While SSA has been utilised to differentiate behavioural styles across several types of crime, this is the first instance in which the method has been used to differentiate behavioural styles across cases of VKC.

Differentiating behavioural styles in cases of violent knife crime in England and Wales

Abstract

Purpose

Knife-enabled crime in England and Wales has increased by 7% in the year ending December 2023. Such increases in incidents are cause for concern due to the potential for significant injury and loss of life. The current study aimed to propose a model of differentiation of offending across 70 cases of violent knife crime (VKC) committed in England and Wales between 2015 and 2020 to inform preventative strategies.

Design

Incident data was collected from online news articles and offender, victim, and offence characteristics were recorded. Characteristics were subject to a non-metric multi-dimensional scaling procedure, Smallest Space Analysis (SSA) to differentiate behavioural styles.

Findings

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Practical Implications

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Originality

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Regional interpretation of the SSA identified three distinct themes (Intimate Partner Violence, Gang-Influenced, and Reactive Violence) that related to distinct styles of offending. Classification according to identified offence theme was possible for 69% of cases. Findings are discussed with reference to Social Identity Approach and Criminal Narrative Theory. Potential future research is discussed with recognition of the need to further differentiate offending behaviour in cases of reactive violence.

The theoretical and practical implications are discussed with consideration of how the findings may inform preventative strategies as part of a public health approach.

While SSA has been utilised to differentiate behavioural styles across several types of crime, this is the first instance in which the method has been used to differentiate behavioural styles across cases of VKC.

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46 **Knife Crime, Investigative Psychology, Criminal Narratives, Social Identity**

47 **Approach, Behavioural Styles, Model of Differentiation**

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50 **Introduction**

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52 Knife-enabled crime in England and Wales has increased by 7% in the year ending

53 December 2023 (*Office for National Statistics, 2024a*). Such increases in incidents

54 are cause for concern due to the potential for significant injury and loss of life. While

55 national statistics can be somewhat useful in identifying statistical trends, there are a

56 number of caveats to consider when using the data, particularly that which relates to

57 knife crime. Under reporting/incorrect categorisation by police, differences in

58 recording systems (*Office for National Statistics, 2023*) and omission of statistics due

59 to technical errors (*Office for National Statistics, 2024a*) have impacted the accuracy

60 of national statistics. Under-reporting of incidents is also an issue that is not

61 reflected in national statistics. Consequently, statistical interpretation of knife crime

62 using these statistics should be understood to be an approximate representation of

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4 63 trends and not to be seen as definitive. It is therefore necessary that academic
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7 64 research is conducted to better understand the nature of VKC.
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15 66 *Defining Violent Knife Crime*
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23 68 'Knife Crime' is a term which became a common feature of news headlines in
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27 69 England and Wales during the early 2000s. Currently, despite ongoing media
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31 70 attention afforded to the matter, there is currently no Home Office definition of knife
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34 71 crime (Williams & Squires, 2022). As a result, low level crimes such as possession of
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38 72 a weapon or threatening using a knife fall under the same definition as more serious
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41 73 crimes such as knife-enabled homicide and knife-enabled sexual offences (Eades et
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53 76 According to the World Health Organisation (WHO), violence is defined as:
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4 78 *"The intentional use of physical force or power, threatened or actual, against oneself,*
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7 79 *another person, or against a group or community, that either results in or has a high*
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10 80 *likelihood of resulting in injury, death, psychological harm, maldevelopment, or*
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14 81 *deprivation."* (Krug et al., 2002: p1084).
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23 83 The above definition recognises threatening behaviour as an act of violence and
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26 84 includes consequences of violence other than physical injury. In contrast to the WHO
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29 85 approach, the current research does not include threat of violence in its definition.
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33 86 The approach suggested herein allows for differentiation between 'low level' knife
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36 87 crimes and those which include actual wounding. In the present paper, VKC is
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39 88 defined as "The intentional and actual use of physical force or power using a knife or
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43 89 sharp instrument against another person or persons that results in injury or death."
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51 91 **Literature review**
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4 93 Aetiologically, the literature suggests that austerity, cuts, and reduced availability of
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7 94 youth services may have contributed to increases in knife crime, while social media
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11 95 use and feelings of unsafety may perpetuate the problem (Phillips et al., 2022).
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14 96 Furthermore, discussions around causality have centred around the availability of
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17 97 knives, in particular kitchen knives (Eades, 2006; Foster, 2013; Golding & McClory,
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21 98 2008) which were the most common type of knife used in homicide cases in the year
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25 99 ending March 2023 (*Office for National Statistics, 2024b*).
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33 101 The academic literature on knife-enabled crime has indicated a range of risk factors
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36 102 related to both victims and offenders of knife crime inclusive of gender (Ajayi et al.,
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40 103 2021; Bailey et al., 2020; Lemos, 2004; Vinnakota et al., 2022), deprivation and
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43 104 poverty (Haylock et al., 2020; Phillips et al., 2022; Reilly et al., 2023), exposure to
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47 105 gangs (Harding, 2020) which is also linked to deprivation and poverty (Dupéré et al.,
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51 106 2007), adverse childhood experiences, and mental ill health (Haylock et al., 2020).
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54 107 In terms of offender and offence characteristics, Browne et al., (2022) indicated that
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57 108 offenders are more likely to be male when the offence occurs in the community,
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4 109 however when females offended, this was more likely to occur in a domestic setting.
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7 110 According to Wood (2010), both offenders and victims were more likely to be male
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10 111 and while those that resided within London and Greater London were more likely to
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13 112 be Black and minority ethnicities with connections to gangs, those outside of London
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16 113 were more likely to be white with no gang involvement. In contrast, Bailey et al.
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19 114 (2020), found that victims and offenders in the Thames Valley area were more likely
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22 115 to be white males which is substantiated by homicide statistics (*Office for National*
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25 116 *Statistics*, 2024b).
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33 118 Low socio-economic status, previous victimisation and/or offending, substance
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36 119 misuse and mental ill-health were also identified as characteristics of knife crime
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39 120 offenders (Browne et al., 2022). Motivations for knife carrying include feelings of
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42 121 mistrust towards police and other agencies (Foster, 2013; McVie, 2010; Traynor,
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45 122 2016), and peer influence and status (Lemos, 2004). Fear of crime and a need for
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48 123 protection have also been identified as significant motivations for knife-carrying
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4 124 (Foster, 2013; Gilbert & Sinclair, 2019; Harding, 2020; Lemos, 2004; Ramshaw &
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15 127 A limitation of the existing research on knife crime, and the initiatives aimed at
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18 128 addressing it, is the tendency to focus on young offenders and gang related violence
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22 129 (Williams & Squires, 2022). However, research indicates that the majority of knife
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25 130 related violence is not gang-related and is more likely to be an instance of 'one-off'
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29 131 reactive violence between strangers (Bailey et al., 2020). More recent research has
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33 132 addressed the need for research outside of that which solely focuses on young
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36 133 offenders in community settings. Cook and Walklate (2020) note that in the context
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40 134 of intimate partner homicide, the most commonly used weapon is a knife. However,
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43 135 this presentation of VKC is often overlooked within the knife crime literature (Williams
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46 136 & Squires, 2022), it may be that the IPV literature can offer some insight into this
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50 137 presentation. Academic evidence indicates that a history of previous domestic
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54 138 incidents is likely in cases of IPV, particularly in cases of intimate partner homicide
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57 139 and that IPV is likely to occur in a private setting, such as the home (Jung & Stewart,
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4 140 2019). Drivers of IPV include jealousy and anger (Neal & Edwards, 2017; Pichon et
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7 141 al., 2020) which is in response to perceived threats to the relationship (Wright, 2017).
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10 142 Research also indicates that revenge driven violence is deemed by perpetrators to
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14 143 be an appropriate response to perceived threats to the relationship and grievances
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17 144 (Weldon & Gilchrist, 2012). Furthermore, rejection sensitivity has been found to be a
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21 145 predictor of IPV, with the perception of rejection likely to result in jealousy and
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24 146 hostility (Downey & Feldman, 1996; Inman & London, 2022). When this occurs in the
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28 147 home, where knives are easily accessible, it is inevitable that some cases of IPV will
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31 148 escalate into VKC.
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40 150 **Public Health Approach**
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48 152 Despite a body of literature which has sufficiently established a range of risk factors
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51 153 for involvement in knife crime, it continues to be a significant problem in the UK. That
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55 154 said, Scotland's public health approach to tackling knife enabled-crime via the
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58 155 implementation of Violence Reduction Units is said to have contributed to significant
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4 156 reductions in gang related violence and weapon use in Scotland (McVie, 2010; Skott
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7 157 & McVie, 2019). Public health approaches take an evidence-based preventative
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10 158 approach to addressing violence through primary, secondary, and tertiary prevention
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14 159 strategies (Sethi, 2010). It is therefore necessary for academic research to be
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17 160 conducted to provide a contemporary evidence base upon which prevention
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21 161 strategies can be developed. The current research aims to propose a model of
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24 162 differentiation of behavioural styles across cases of VKC which may be utilised to
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28 163 inform primary, secondary, and tertiary prevention strategies that contribute to a
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31 164 public health approach.
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39 166 **Theoretical Approaches**

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48 168 *Criminal Narrative Theory*

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56 170 Narrative identity refers to the way in which individuals make sense of and give
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59 171 meaning to their lives via the internalisation of evolving and self-defining stories in
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4 172 which their role is central (McAdams, 2006). According to McAdams (1993) the
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7 173 narrative self, the personal myth, is an inner story which is subject to ongoing
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10 174 development across the life span. These personal myths are thematically organised
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14 175 across two domains: agency (related to concepts of power and achievement) and
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17 176 communion (related to concepts of love and intimacy) (McAdams, 1993; Youngs &
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21 177 Canter, 2011).

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29 179 Canter and Youngs (2009) argue that the detailed analysis of inner-narratives,
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32 180 narrative roles, and the role assigned to the victim by the offender are fundamental
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36 181 to understanding crime. According to Youngs and Canter (2011) agency and
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40 182 communion are comparable to concepts of intimacy and potency, and high or low
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43 183 levels of these within offense behaviours are indicative of the relevance of the victim
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47 184 to the offender. Canter's Victim Role Model (Canter, 1994) highlights the way in
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50 185 which the interplay of control and empathy deficits produce one of three ways in
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54 186 which offenders view victims; as object, as vehicle, and as person. Within the victim
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57 187 as object role, the offender views the victim as less than human, and has a tendency
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4 188 towards physical control (Ioannou & Oostinga, 2014). The victim as vehicle role is
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7 189 one in which the crime represents the expression of anger and/or desire towards the
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11 190 victim, and in the victim as person role, the victim is recognised as human and
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14 191 control is gained via manipulation (Ioannou & Oostinga, 2014).
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22 193 In addition, offences can be distinguished thematically as expressive or instrumental.
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25 194 Feshbach (1964) proposed an instrumental – expressive dichotomy of violence and
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29 195 defines expressive violence as violence which occurs in response to psychological
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33 196 stressors, such as emotional responses, while instrumental violence, also known as
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36 197 proactive aggression (Vitaro & Brendgan, 2005), is committed in order to achieve
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40 198 some other goal. The expressive/instrumental dichotomy is suggested to be
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43 199 indicative of the role of the victim to the offender, with expressive crimes suggested
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47 200 to be those in which the victim is recognised as a person (Salfati, 2000) where
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50 201 violence is often the result of an emotional outburst (Fritzon & Garbutt, 2001).
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54 202 Whereas instrumental crimes indicate the view of victim as object from which the
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57 203 offender can gain something (Salfati, 2000).
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8 205 In light of the above concepts, Youngs and Canter (2011) propose four fundamental

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11 206 offender narrative roles: 'The Revengeful Mission', the 'Tragic Hero' , 'the

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14 207 'Professional', and the 'Victim'. Narrative analysis has been the focus of a number of

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18 208 pieces of academic research within the criminal context which provide evidence for

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22 209 these thematic inner narratives roles inclusive of rioting (Willmott & Ioannou, 2017),

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25 210 female offending (Ciesla et al., 2019), homicide including dismemberment (Pointon &

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28 211 Wright, 2023), and its utilisation has proven fruitful when applied to cases of missing

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32 212 children (Hunt, 2021).
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40 214 Such consistency of dominant narrative themes across empirical research indicates

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43 215 the presence of a framework from which offenders and offence styles can be

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47 216 differentiated and may be applicable to any type of crime (Willmott & Ioannou, 2017).
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50 217 Application to the empirical study of VKC may allow for the development of a model

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54 218 of differentiation which enables police, policy makers, and agencies tasked with
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4 219 addressing VKC to understand its varying presentations and the contexts from which
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7 220 they occur, and therefore consider preventative strategies to address it.
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15 222 ***Social Identity Approach***
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23 224 While criminal narrative roles may provide insight into the internal processes which
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27 225 inform behaviour, there is a need to better understand the social and cultural
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30 226 contexts from which inner-narratives operate. One approach that pays particular
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34 227 attention to context is the social identity approach (SIA): the SIA posits identity as
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37 228 actively generated in contexts, an emergent property of social interaction (Levine,
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40 229 1999). In the context of crime, it is noteworthy that, from a social identity perspective,
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44 230 identity and self-categorization processes are understood as structuring social
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48 231 interaction (Haslam et al., 2009). Social identity was defined by Tajfel (1982) as an
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51 232 individual's knowledge that they belong to certain social groups and that membership
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55 233 of these groups has emotional and value significance for them. It focuses on the
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4 234 'we's' people ascribe to and how when 'we' self-categorise as a group member 'we'
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7 235 interact with 'them'.
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15 237 The SIA is a psychological metatheory which comprises Social Identity Theory (SIT)
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18 238 and Self Categorisation Theory (SCT). SIT is concerned with meaningfulness,
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22 239 belonging and wellbeing derived from identification with particular groups (Tajfel &
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26 240 Turner, 1979), while SCT is concerned with the mechanisms associated with
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29 241 assigning the self to social groups (Turner, 1985).
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37 243 One way of understanding crime is as a social transaction between victim(s) and
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41 244 offender(s) (Canter, 1994) and thus, social psychology may offer a means of
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44 245 understanding psychological mechanisms from which crime, and more specifically
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48 246 VKC may arise. If VKC is understood as a form of conflict, then it becomes
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51 247 necessary to understand the social contexts from which it occurs (Billig, 2002). Billig
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55 248 (2002) argues that the study of conflict should consider the attitudes and beliefs that
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58 249 groups hold about each other. Therefore, to understand VKC, the psychology of
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4 250 group processes, attitudes, and perceptions should be examined. An application of

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7 251 SIA enables examination of these mechanisms.

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15 253 The Integrated Social Identity Model of Stress (ISIMS; Haslam & Reicher, 2006)

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18 254 provides a model which conceptualises how responses to stress relate to

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22 255 identification with, and security within, social groups. The model suggests that low-

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25 256 status group members with low levels of shared identity will respond to stressors

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28 257 related to social identity through avoidance. In the absence of opportunities for

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32 258 avoidance and when social identity status is secure, individuals are likely to react to

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35 259 stressors with denial. Finally, resistance is likely when social identity status is high

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38 260 but perceived group security is low (Haslam et al., 2018). It is here suggested that

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42 261 the ISIMS can be applied to VKC to explore the underlying processes that contribute

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45 262 the presentation of offence characteristics.

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55 264 **The Current Study**

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4 266 The current research aims to analyse a range of characteristics associated with
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7 267 offenders, victims, and offences of VKC in England and Wales. It is argued that
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10 268 patterns in the co-occurrence of these characteristics will allow differentiation of
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14 269 behavioural styles of VKC offending. Offence characteristics and their co-occurrence
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18 270 are often analysed within Investigative Psychology (IP) research using Smallest
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21 271 Space Analysis (Canter & Youngs, 2009). However, a literature search of Wiley,
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24 272 Emerald, ProQuest, Sage, Science Direct, and Elsevier, conducted on 20th April
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28 273 2024, using the terms ("Knife crime" OR "Knife-enabled") AND ("Smallest space
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31 274 analysis") AND ("United Kingdom" OR UK OR England OR Ireland OR Scotland OR
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35 275 Wales) returned no results which specifically utilised SSA to propose a model of
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38 276 differentiation across cases of knife-enabled violent crime. It is thus suggested that
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42 277 the current study's contribution to literature is that it is likely to be the first exploratory
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45 278 piece of empirical study to be published, that aims to differentiate between offending
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49 279 styles across cases of VKC. Ultimately, the current study aims to answer the
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52 280 question "What are the clusters of variables present in SSA that are associated with
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56 281 different offending styles in the context of violent knife crime?" and address this
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59 282 literary gap.
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Methods

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12 285 **Ethical considerations**
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1920 287 Ethical approval was granted by the institution (IRB number: 42440). While all of the
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2223 288 details of cases are accessible via open sources, to ensure confidentiality, names or
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2526 289 identifiable details of individuals are not included in this report. Such details were
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2829 290 collected in the initial stages of data collection but were not included in the final
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3132 291 analysis.
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4142 293 **Sample**
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4950 295 The sample was comprised of 70 cases of VKC to mirror the methodology of Canter
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5253 296 and Heritage (1990), who pioneered the use of SSA to differentiate behavioural
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5556 297 styles of offending across 66 cases of stranger rape. The first inclusion criteria were
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4 298 that the offence was committed by individuals aged 24 and under. This reflects
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7 299 consistent trends with regards to age ranges with the highest levels of offending
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10 300 (Office for National Statistics, 2022; Office for National Statistics, 2023c). The lower
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14 301 age limit for offenders was decided based upon the age of criminal responsibility in
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17 302 England and Wales (Crown Prosecution Service, 2022), which is currently set at 10
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21 303 years of age.
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29 305 In addition, it was determined that cases should have occurred in England and
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32 306 Wales between 2015 and 2020 to provide the best representation of VKC in England
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36 307 and Wales without any distortions due to the impact of Covid-19 restrictions. The
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40 308 current research considers VKC to be a social transaction between victims and
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43 309 offenders (Canter, 1994), thus, social restrictions on a national level will have
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47 310 undoubtedly impacted the nature of those transactions. Therefore, it was decided
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50 311 that pre-pandemic data would provide the most accurate depiction of VKC in the UK.
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54 312 According to Phillips et al., (2022), increases in prevalence and severity suggest that
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57 313 the nature of knife crime is changing over time, thus it was decided that a sample
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4 314 obtained across a five-year period would best reflect current picture of VKC in

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7 315 England and Wales, while a longer period of ten to twenty years would be less

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10 316 indicative of the way that VKC has manifested in recent years.

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18 318 In cases where there was more than one offender, the details of the offender first

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22 319 identified as meeting the inclusion criteria were recorded for the purpose of analysis

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25 320 and in cases in which there was more than one victim, the details of the victim with

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29 321 the most severe injuries were recorded to reflect the severity of the crime.

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37 323 **Data collection**

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46 325 Data were collected from online open sources, firstly by identifying cases using The

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49 326 Law Pages, a website that lists cases of crimes heard in Crown court. The Law

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53 327 Pages only records cases leading to a conviction, thus ensuring validity of the

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56 328 sample of cases by excluding anyone charged but later found not guilty (Collie &

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60 329 Shalev Greene, 2019). The use of The Law Pages reduced the impact of media bias

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4 330 regarding the cases that were collected as they were first identified via a source
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7 331 independent from media influence. Selection of cases was conducted in a systematic
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10 332 randomised manner. To ensure an even spread, the number of cases ($N=70$) was
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14 333 divided by the number of years (5), indicating that 14 cases per year should be
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17 334 collected. The details of every third case identified as knife-enabled from the list of
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21 335 results per year were included until the sample size of 14 per year was met.
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29 337 While 'The Law Pages' provides some details of cases, the depth of the details
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32 338 provided can be inconsistent with some listings providing full Judges sentencing
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36 339 remarks and others only minimal case details such as the date of the offence and
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40 340 location. This made it necessary to obtain further details following case identification
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43 341 and this was achieved using news websites (BBC News, Sky News, The
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46 342 Independent, Mirror, ITV News). While it was recognised that alternative data
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50 343 sources, such as police or court records may have been preferable to open-source
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53 344 data, concerted efforts to gain access to such material proved to be unsuccessful.
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57 345 While police and court reports may provide more robust and comprehensive data, an
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4 346 inability to access such data meant that media reports provided the most direct data
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7 347 obtainable (Collie & Shalev Greene, 2019) for the purpose of the current research.
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15 349 Once the 70 cases were collected, the data was analysed and offender, victim, and
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18 350 offence characteristics were recorded. A coding dictionary was devised (see
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22 351 Appendix 1) by recording and labelling the characteristics present in each case for
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26 352 example, 'offender acted alone', 'offender acted as part of a group.' A dichotomous
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29 353 approach to recording the presence and absence of characteristics was adopted and
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33 354 variables were coded '0' when a characteristic was absent and '1' when a
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36 355 characteristic was present. Previous research has argued that a dichotomous
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40 356 approach ensures maximum clarity and reliability when utilising data which was not
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43 357 initially collected for the purpose of conducting academic research (Almond et al.,
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46 358 2006). Initially, a total of 96 variables were identified. Due to the use of open-source
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50 359 media, there was a notable amount of missing data across the dataset, and variables
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54 360 which were significantly impacted by missing data were excluded from the analysis.
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57 361 Variables that occurred in more than 90% (almost certain to occur) of cases and
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4 362 those that occurred in less than 5% (almost never occurs) of cases were also
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7 363 excluded to facilitate differentiation. Finally, variables which measured the same
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10 364 outcome from opposite viewpoints, for example 'offender acted alone' and 'offender
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13 365 acted as part of a group' were considered and selected to ensure an even spread of
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17 366 frequencies across variables to enable differentiation. Following exclusion of
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21 367 variables in this manner, it was determined that 25 variables were suitable for further
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24 368 analysis.

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33 370 **Data analysis**

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41 372 Data were analysed using SSA which is a non-metric Multidimensional Scaling
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44 373 procedure developed by Guttman (1954) and commonly utilised within IP research to
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48 374 identify behavioural themes across cases of various offences. This is inclusive of
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51 375 homicide (Santtila et al., 2001) serial homicide (Salfati & Bateman, 2005), school
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55 376 shooting incidents (Gerard, Whitfield, et al., 2015) and rape (Canter & Heritage,
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57
58 377 1990). A Jaccard's similarity matrix was used to produce a visual representation of
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4 378 the variable co-occurrence against every other variable across the 70 cases of VKC.
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7 379 Variables are represented by points within a geometric space, with the distance
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10 380 between points representative of variable correlation (Canter & Heritage, 1990).
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14 381 Therefore, a smaller distance between two variables within the plot would be
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17 382 indicative of a higher correlation between those variables (Gerard, Browne, et al.,
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21 383 2015). It was hypothesised that variables that are thematically similar would often co-
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24 384 occur across the cases of VKC and therefore group together within the space of the
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28 385 SSA plot, depicting distinct behavioural styles (Canter & Youngs, 2009).
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36 387 **Results**
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44 389 **Smallest Space Analysis**
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51 391 The SSA plot depicts the co-occurrence of 25 variables (see Table 1) that occurred
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54 392 during 70 incidents of VKC. Regional interpretation of the SSA plot identified three
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58 393 regions in which the offence characteristics appeared to have a coherent
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4 394 interrelationship. Tucker's coefficient of congruence is representative of how well the
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7 395 spatial distribution within the SSA represents the actual co-occurrence of variables.

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10 396 Tucker's coefficient of congruence was .96 with 17 iterations and according to
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14 397 Lorenzo-Seva and ten Berge (2006) a coefficient of congruence higher than .95
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17 398 indicates a good fit.

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26 400 INSERT TABLE 1

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34 402 The SSA output depicts three distinct behavioural styles (see figure 1) which are
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37 403 labelled from the top right clockwise as 'Reactive Violence', 'Intimate Partner
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41 404 Violence' and 'Gang Influenced'. Visual interpretation of the plot identified the
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45 405 clusters of variables present which informed the placement of lines to distinguish the
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48 406 regions. Differentiation was further supported by consideration of thematic similarity
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51 407 of the variables present in each region and how they differed thematically from the
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55 408 variables present in other regions (Salfati & Canter, 1999). Internal consistency of
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57
58 409 the groupings within the SSA was tested using the Kuder-Richardson coefficient (K-
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4 410 R 20), which is a measure of reliability for dichotomous data. According to Tucker
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7 411 (2007), values below 0.50 are indicative of low internal consistency, while values
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10 412 between 0.50 and 0.80 suggest a moderate level of reliability. Scores above 0.80
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14 413 indicate a high level of reliability.

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22 415 INSERT FIGURE 1

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30 417 *Reactive Violence*

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39 419 The top right region depicts a grouping of variables which together form
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42 420 characteristics which can be attributed to incidents of VKC in which interpersonal
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46 421 reactions escalated the violence: the knife was carried for protection, the offender
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49 422 acted in self-defence, the incident occurred following a disagreement, the incident
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53 423 occurred following a perceived disrespect, the victim and offender were strangers
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56 424 and the incident involved one victim. The K-R 20 value for these items is 0.31 which
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60 425 is indicative of a low level of reliability.

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8 427 ***Intimate Partner Violence***
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16 429 The bottom right region of the SSA depicts variables attributed to cases of IPV: the
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19 430 offence occurred following a perceived rejection, jealousy was a motivation in the
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23 431 offence, the offender was reported to have mental health difficulties, the attack was
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26 432 sustained, the attack was unprovoked, the attack was frenzied, there had been
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30 433 conflict prior to the circumstance leading to the attack, and revenge was a motivator.
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33 434 The K-R 20 value for these items is 0.69 indicating a moderate level of internal
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37 435 consistency.
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45 437 ***Gang Influenced***
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53 439 The left hand side of the SSA depicts a grouping of variables which is attributed to
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57 440 gang influenced cases of VKC: The attacked occurred in a secluded area, the
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4 441 offender affiliated with a post code gang, there was an ongoing feud between the
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7 442 victim and offender, the offence was premeditated, the attack was a blitz attack, the
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10 443 offender was affiliated with a drug dealing gang, the offender acted as part of a
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14 444 group and the offence occurred during the course of another crime. The K-R 20
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17 445 value for this grouping of items was 0.71, which is indicative of a moderate level of
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21 446 reliability.
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29 448 ***Testing the Framework***
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37 450 SSA analysis depicts three regions which indicate a model of differentiation of
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41 451 behavioural styles in cases of violent knife crime. However, it does not assign those
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45 452 cases to a dominant type. To classify cases to their dominant themes, the
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48 453 percentage of present characteristics per theme was calculated. Cases were
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51 454 assigned to a dominant type if the intra-group percentage of characteristics present
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55 455 belonging to one region were greater than the sum of the percentages of present
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58 456 characteristics belonging to the other two groups. Cases that could not be assigned
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4 457 to a dominant behavioural style in this manner were categorised as non-classifiable.
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7 458 Table 2 depicts the distribution of cases across behavioural styles.
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INSERT TABLE 2

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Discussion

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32 464 The current study applied SSA to examine offence characteristics across cases of
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35 465 VKC in England and Wales. The cases collected occurred between February 2015
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39 466 and February 2020 to avoid the impact of Covid-19 restrictions on the data. Regional
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42 467 analysis (Canter & Youngs, 2009) of the SSA identified three distinct behavioural
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45 468 themes indicating different offending styles across cases of VKC: intimate partner
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49 469 violence, gang-influenced, and reactive violence. Of the 70 cases, 69% could be
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52 470 classified as belonging to one of three dominant behavioural themes. In contrast,
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56 471 31% of cases were classified as non-classifiable and were not characteristic of one
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60 472 dominant theme.

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8 474 **Smallest Space Analysis**
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16 476 *Intimate Partner Violence*
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24 478 The IPV region of the SSA depicts variables suggestive of a relationship with
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28 479 interpersonal emotions. According to Youngs and Canter (2011), offending that is
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31 480 characteristically high in intimacy suggests an explicit intention to affect the victim.
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35 481 The presence of emotive variables such as revenge, rejection, and jealousy suggest
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38 482 a behavioural theme heavily influenced by reactions to perceived threats to the
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42 483 relationship (Neal & Edwards, 2017; Pichon et al., 2020; Wright, 2017) in which
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45 484 emotional outbursts (Fritzon & Garbutt, 2001) of anger and rage escalate into
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49 485 violence that is intentionally directed towards the victim and is therefore high in
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52 486 intimacy and expressive in nature. According to Downey and Feldman (1996) and
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56 487 Inman and London (2022), rejection sensitivity within a relationship has the potential
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59 488 to lead to jealousy and hostility, which may explain the close proximity of jealousy
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4 489 and rejection within this region. The variable frenzied may be indicative of a loss of
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7 490 control due to emotional outburst, which Youngs and Canter (2011) state is
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9
10 491 indicative of low potency. In addition, the presence of the prior conflict variable
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14 492 aligns with findings that previous domestic incidents are likely in cases of IPV (Jung
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17 493 & Stewart, 2019).
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26 495 Canter & Youngs (2009) state the expressive-instrumental model can be mapped
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29 496 onto the role assigned to a victim by an offender, with the 'victim as person' role
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33 497 more characteristic of crimes that are more expressive in nature and
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36 498 characteristically higher in intimacy. In the 'Victim as Person' role, the offender
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40 499 recognises the victim as a person from whom they wish to gain something. Coercion,
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43 500 manipulation, and abuse of the victim, which can be extreme due to the highly
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46 501 expressive nature of the crime, would be characteristic of this offense style (Ioannou
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50 502 & Oostinga, 2014). The presence of frenzied and sustained attacks within this region
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54 503 of the SSA is demonstrative of extreme abuse directed towards the victim during the
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57 504 incident.
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8 506 Offences characteristically high in intimacy and low in potency are suggested by9
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11 507 Youngs and Canter (2011) to involve perpetrators that align with the 'Victim'12
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14 508 narrative. The victim criminal narrative is characterised by a state of confusion and15
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18 509 helplessness in which an offender perceives a crime, in this case VKC, as something19
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21
22 510 that they are powerless to avoid (Canter & Youngs, 2009; Ioannou et al., 2016).23
24
25 511 Research suggests that male perpetrators of IPV experience dual self-perception as26
27
28 512 both perpetrator and victim (Zrihan-Weitzman & Buchbinder, 2014), which may29
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32 513 explain such feelings of confusion and helplessness.33
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40 515 From a social identity approach, particularly with consideration of the ISIMS (Haslam41
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43 516 & Reicher, 2006), offenders of IPV often resort to victim blaming attributions, placing44
45
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47 517 their own violent behaviour outside of their control (Lila et al., 2013). The placing of48
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51 518 blame outside of the offender's control suggests denial of responsibility for the52
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54 519 actions directed towards an intimate partner in response to emotive stressors and55
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58 520 threats to the relationship. According to the ISIMS (Haslam & Reicher, 2006), the59
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4 521 presence of denial indicates that the offender's perceived social status within the
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7 522 relationship is high. Interestingly, this indicates security within the relationship. While
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10 523 insecurity may be expected and the presence of jealousy within this region suggests
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12
13
14 524 it is indeed present, social identity security may arise from repeatedly being forgiven
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16
17 525 following incidents of IPV, indicated by the presence of the prior conflict variable
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21 526 within this region. Indeed, the presence of forgiveness is suggested to maintain the
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24 527 status-quo within IPV relationships, which in turn enables the perpetrator to assign
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28 528 elements of blame for violent incidents onto the victim, and thus assign the role of
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31 529 victim onto themselves (Zrihan-Weitzman & Buchbinder, 2014).
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531 *Gang-Influenced*

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533 The characteristics present in the gang influenced region of the SSA depict
534 premeditated, targeted attacks, fuelled by feuds. Context, fundamental to a social
535 identity understanding, is to the fore. This suggests purposeful and intentional
536 attacks which are high in potency and not heavily influenced by emotional responses

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4 537 to the victim, that might be understood in social identity terms as depersonalisation
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6
7 538 (Tajfel & Turner, 1979). Depersonalisation is the theory that personal identity is much
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9
10 539 less prevalent when group identity is salient (Tajfel, 1969). Therefore, individuals are
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13
14 540 more likely to behave in line with group expectations. In this context,
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16
17 541 depersonalisation is extended to the victim by the offender, who would view the
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21 542 victim as a component of the out-group (or gang) as opposed to a human being. The
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23
24 543 'professional' offender minimises the seriousness of the harm inflicted on the
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26
27 544 individual by viewing an attack on the individual as an attack on the rival gang.
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31 545 Further, they frame their offending as part of a 'job' with violence being secondary
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33
34 546 (Canter & Youngs, 2012). This calm/unemotional approach in which the offender is
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38 547 focused on achieving his own objectives is suggestive of the 'Professional' Criminal
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42 548 Narrative. Within this narrative, the victim is assigned the 'victim as object' role and
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45 549 thus the offender views them as less than human and more as a means to achieve a
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49 550 particular objective (Canter & Youngs, 2009).
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4 552 The presence of the premeditated variable within this region suggests planned,
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7 553 proactive offending as opposed to reactive or spontaneous offending. Proactive
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10 554 aggression is described as an instrumental means of securing goods or dominating
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14 555 others (Vitaro & Brendgan, 2005) and in the case of postcode gangs, potential gains
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17 556 include territory, status, and protection (Pitts, 2008) while drug gangs stand to gain
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21 557 money and business (Whittaker et al., 2020).
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29 559 The escalation of violence and VKC in gang affiliated cases can be conceptualised
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31
32 560 by applying the ISIMS (Haslam & Reicher, 2006). Individuals associated with gangs
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36 561 are reported to be more likely to come from low socio-economic backgrounds
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38
39 562 (Dupéré et al., 2007). When the salient social identity is that of someone belonging
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43 563 to a community with a low socio-economic status, low social status may be present.
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45
46 564 Gang involvement offers individuals a social structure which enables them to
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50 565 increase status through avoidance of the low status social identity and identification
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54 566 with the perceived higher status group (Haslam et al., 2018). When gang social
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57 567 identity is salient, social status may be perceived as being high, while the associated
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4 568 risk of violence and/or legal repercussions may make social identity insecure. The
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7 569 ISIMS suggests that under these circumstances, threats to social identity are likely to
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10 570 be met with active resistance in the form of conflict and hostility (Haslam & Reicher,
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14 571 2006). In this context, it is argued that such resistance takes the form of violence and
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17 572 VKC.

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25 574 *Reactive Violence*

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34 576 The final region of the SSA is 'reactive violence' which is representative of incidents
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37 577 in which victims and offenders cross paths at random and violence escalates into
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41 578 VKC. Canter & Youngs (2009) describe the 'revenger' criminal narrative as one
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45 579 involving retaliation to unfair treatment which ultimately leads to disaster. The
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48 580 characteristics 'disagreement' and 'protection' are suggestive of this type of narrative
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51 581 which suggests the presence of some perceived threat (unfair treatment). Further,
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55 582 Canter and Youngs (2009) discuss a narrative in which the offender feels justified in
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4 583 their actions, which would align with the presence of 'self-defence' and 'protection'
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7 584 characteristics within the SSA.
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14 586 The key consideration within the reactive violence region is the presence of the knife.

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17 587 Had the knife not been present, the same circumstances would have not escalated

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21 588 beyond a fist fight. Theoretically, the reactive violence offender may socially identify

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24 589 via self-categorisation as a potential victim of VKC which may feed into this fear of

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28 590 crime and victimisation. This fear, which could be interpreted as insecurity, may

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31 591 result in knife carrying as a means of protection as is suggested in academic

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34 592 literature (Foster, 2013; Gilbert & Sinclair, 2019; Harding, 2020; Lemos, 2004;

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38 593 Squires, 2009; Stephen, 2009). Status displays are described within the empirical

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41 594 literature as another motivation for the carrying of knives (Foster, 2013) suggesting

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45 595 that some individuals perceive knife carrying as a way to increase social status.

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48 596 Application of the ISIMS (Haslam & Reicher, 2006) allows insight into how cases of

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51 597 reactive VKC may manifest. The revengers perceived insecurity due to fear of

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55 598 victimisation may lead to the offender's decision to carry a knife. In turn, the

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59 599 perception of the offender that they are of a high social status due to carrying a knife,
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4 600 coupled with the insecurity resulting from fear of victimisation and the tendency to
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7 601 react to treatment that is perceived as unfair would result in a threat response of
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10 602 resistance in the form of violence and VKC.

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17 604 The revenger narrative is one which Youngs and Canter (2011) explain is
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21 605 characteristic of high potency and high intimacy, where the offender views
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24 606 themselves as powerful (high social status) and where the reactions of the victim are
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28 607 highly significant. Within this narrative the victim is assigned the role of vehicle,
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31 608 suggesting that violence results from an anger response (Ioannou & Oostinga,
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35 609 2014). That said the emotional state of the revenger is said to be one of calmness
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38 610 (Youngs & Canter, 2011) which is at odds with the expressive nature of a fear/anger
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42 611 response (Youngs & Canter, 2011) characteristic of the reactive violence region.

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49 613 A fourth narrative within criminal narrative theory is that of the hero, which is
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52 614 characteristically more expressive in nature and in which the victim is also assigned
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56 615 the role of vehicle (Youngs & Canter, 2011). The hero tends to perceive their crime
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59 616 as a manly thing to do and expresses bravery despite the associated risks (Ioannou et
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4 617 al., 2016). Here, social identity threats to masculinity are significant. Bailey et al.,
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7 618 (2022) describe incidents of one-off violence which are characteristic of the reactive
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10 619 violence region in the SSA, as do Cook and Walklate (2020) who note that these are
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14 620 often gendered in that they are predominantly perpetrated by males and usually take
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18 621 place in the public domain. This demonstrates links between the hero criminal
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21 622 narrative and incidents of VKC which are characteristic of reactive violence. The
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24 623 merging of the revenger and hero narratives within this region seems logical, given
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28 624 the role of the victim is the same for each of these narratives. However, the merging
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31 625 of narratives in this region indicates a need for further analysis of VKC to identify
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35 626 whether cases classified as reactive violence within this research can be further
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38 627 differentiated in terms of behavioural themes. The finding of low internal consistency
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42 628 within this theme, would also suggest that there is a need for further differentiation
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45 629 within this region.

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53 631 *Implications*

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4 633 The current study differentiated between behavioural styles of VKC offending to
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7 634 contribute to the current evidence-base which informs primary, secondary, and
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10 635 tertiary strategies. In analysing victim and offender characteristics, it is possible to
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14 636 identify risk factors and strategies methods to prevent their emergence as part of
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17 637 primary prevention strategies. Understanding the criminal narratives of offenders,
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21 638 relevance of the victim to the offender, and psychological mechanisms which result
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24 639 in denial, avoidance, and resistance, can identify antecedents to behaviour.
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28 640 Therefore, while risk factors may be present, targeted efforts at preventing those
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31 641 antecedents from manifesting may prove to be effective secondary prevention
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35 642 strategies. In addition, understanding the narrative roles of offenders may enable
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38 643 practitioners to tailor offender treatment strategies that incorporate narrative theory
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42 644 to prevent future re-offending. Further, understanding reactions to stress as products
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45 645 of group processes may enable practitioners to promote social belonging in a
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49 646 manner that deters violent reactions and thus inform tertiary prevention strategies.
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55 648 ***Study Strengths, Limitations and Future Recommendations***
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4 650 The current study aimed to evidence the existence of different behavioural styles of
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7 651 VKC. However, the research should be understood as an exploratory piece which
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10 652 proposes a thematic model of differentiation and thus further research in the area of
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14 653 VKC is necessary. Strengths of the current research are the successful
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17 654 differentiation of offence styles and the application of SIA and Criminal Narrative
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21 655 Theory to understand different presentations of VKC and how they may manifest.
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24 656 One limitation of the research is the availability of data which relates to incidents of
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28 657 VKC. Consequently, the use of open-source news media resulted in the current
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31 658 study being limited to differentiation of behavioural styles based upon the media's
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35 659 commonly reported characteristics and those made public which may not be
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38 660 representative of all characteristics. More detailed data, such as police and court
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42 661 reports may allow for the inclusion of more variables to identify whether other
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45 662 behavioural styles are present within VKC offending.
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53 664 Additionally, this research has shown that there is a need to further differentiate
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57 665 cases of VKC which are characteristic of reactive violence cases. The current
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4 666 findings suggest low internal consistency and a merging of criminal narratives within
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7 667 this region and thus it is expected that further analysis, using more comprehensive
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10 668 data sources which allow for the inclusion of more variables, would enable further
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14 669 differentiation of behavioural themes in cases of reactive violence.
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22 671 **Conclusion**
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30 673 The current study addressed the question “What are the clusters of variables present
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34 674 that are associated with different offending styles in the context of violent knife
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37 675 crime?” and utilised SSA to evidence the existence of thematically different
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41 676 presentations of VKC. Three distinct behavioural styles of VKC were identified:
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44 677 ‘Intimate Partner Violence’, ‘Gang Influenced’ and ‘Reactive Violence’. The
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48 678 application of Criminal Narrative Theory and SIA was used to explain the different
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51 679 behavioural themes and give insight into the underlying psychological processes
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55 680 which precipitate their manifestation. Cases of VKC that arose from incidents of IPV
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58 681 were contextualised within the ‘victim’ criminal narrative, in which the victim is
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4 682 assigned the role of person and where the ISIMS indicates that denial of
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7 683 responsibility on the offenders part is validated by repeated forgiveness for conflict
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10 684 within the relationship. Gang-influenced cases were suggested to be aligned with
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14 685 the 'professional' offender with the victim assigned the role of object, and where
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17 686 threats to social identity threats are met with resistance. Finally, cases of reactive
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21 687 violence involved cases in which the victim was assigned the of vehicle. These
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24 688 cases were characteristically cases of one-off violence in which social identity threats
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28 689 to masculinity were suggested to be significant. Within this region there appeared to
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31 690 be merging of the 'revenger' and 'hero' criminal narratives suggesting the need for
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35 691 further differentiation of cases of reactive violence.
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43 693 **References**

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910 Appendices

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Table 1.

Table detailing the frequencies of variables in each of the behavioural styles.

Characteristics	Number of Cases (%)
Reactive Violence	
OneVic	58 (82.9%)
Disagreement	35 (50%)
Disrespect	32 (45.7%)
Strangers	27 (38.6%)
OffSelfDefence	6 (8.6%)
Protection	5 (7.1%)
Intimate Partner Violence	
Revenge	24 (34.3%)
Unprovoked	23 (32.9%)
PriorConflict	22 (31.4%)
Frenzied	21 (30%)
Sustained	10 (14.3%)
OffMH	8 (11.4%)
Jealousy	5 (7.1%)
Rejection	4 (5.7%)
Gang Affiliated	
Street	46 (65.7%)
Targeted	40 (57.1%)

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4	WMulti	37 (52.9%)
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6	Premed	27 (38.6%)
7		
8	OffGroup	26 (37.7%)
9		
10		
11	Blitz	24 (34.3%)
12		
13		
14	OffDrugGang	12 (17.1%)
15		
16	Feud	12 (17.1%)
17		
18		
19	Crime	10 (14.3%)
20		
21	Secluded	10 (14.3%)
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23		
24	OffPostCodeGang	9 (12.9%)
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Figure 1

Smallest space analysis plot depicting variable co-occurrence across 70 cases of VKC with regional analysis.

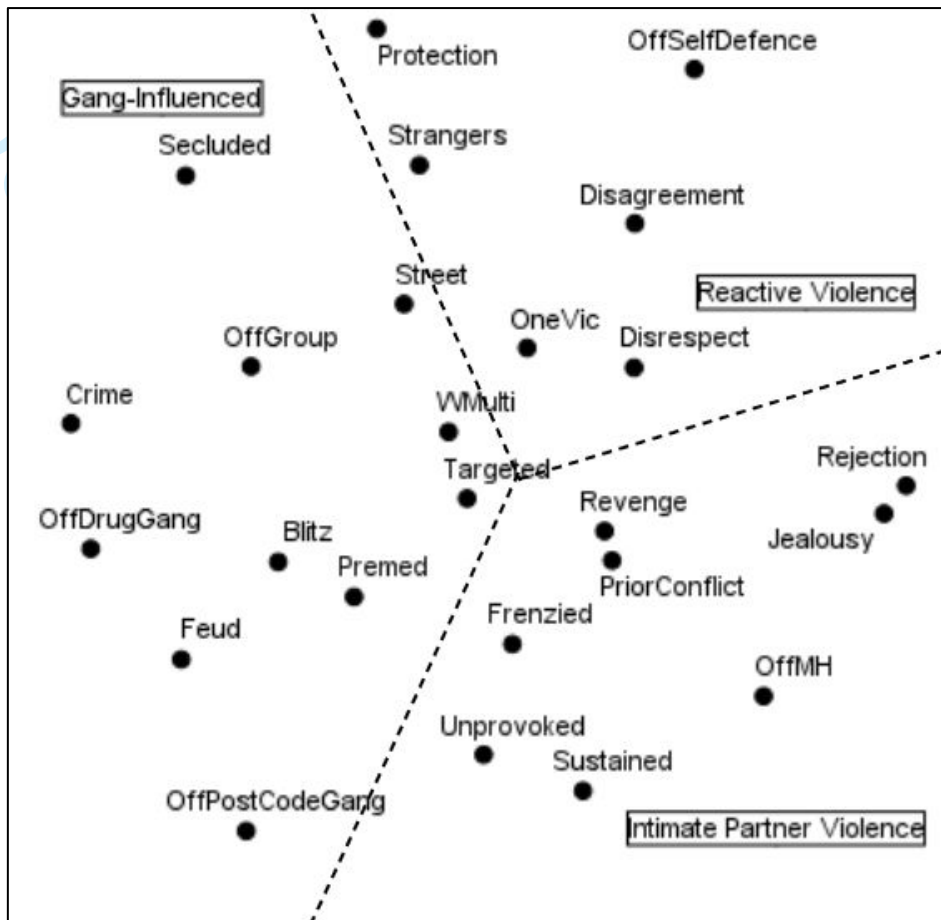


Table 2*Distribution of cases across behavioural styles*

Behavioural Style	Number of Cases (%)	Cumulative Number of Cases (%)
Gang-influenced	17 (24.3)	17 (24.3)
Intimate Partner Violence	4 (5.7)	21 (30)
Reactive Violence	27 (38.6)	48 (68.6)
Non-classifiable	22 (31.4)	70 (100)

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Appendix 1: Smallest Space Analysis Variables

Coding Dictionary

Table 1: Variable Coding Dictionary

Variable Label	Full Variable Label
OffCrimeFinance	The offender made their living through crime
OffEducation	The offender was in education
OffPreconKnife	The offender had a previous conviction for knife carrying
OffPreconViolent	The offender had previous violent convictions
OffPreconDrugs	The offender had previously been convicted of drug offences
OffPreconProperty	The offender had previous property convictions
OffProlific	The offender was a prolific offender
OffPreIPV	The offender had previously engaged in Intimate Partner Violence
OffMH	The offender had current or previous mental health difficulties
OffPostCodeGang	The offender was affiliated with a 'post code gang' operating from a specific territory
OffDrugGang	The offender was affiliated with a gang involved in drug distribution
OffAlone	The offender acted alone
OffAccom	The offender acted with an accomplice
OffGroup	The offender acted as part of a group
Joint Enterprise Purpose	The offending group was convicted of joint enterprise
Purpose	The offender carried the knife for the purpose of carrying out the attack
Habitual	The offender was a habitual knife carrier
KnifePickedUp	The offender saw the knife during the incident and picked it up
Protection	The offender carried the knife for protection/fear
Status	The offender carried the knife to display status
TakenFromV	The offender took the knife from the victim
KnifeThirdParty	The offender was either given the knife by or took it from a third party
KnifeKitchen	The offender obtained the knife from a kitchen
OffInitiated	The offender initiated the violence
OffHunting	The offender searched for their victim(s)
OffReturn	The offender returned to the scene of a previous altercation.
OffVicsHome	The offender went to the victim's home
OffKillUrge	The offender reported that they had urges to kill
OffPlanRandom	The offender planned to attack victim(s) at random
OffPreVic	The offender had previously been a victim of violence
OffRemove	The offender was removed from, or denied entry to a party
OffUInf	The offender was under the influence of drink or drugs
OffSelfDefence	The offender acted in self defence

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3	VPostCodeGang	The victim was affiliated with a 'post code gang'
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6	VDrugGang	The victim was affiliated with a drug gang
7	Valone	The victim was alone when the incident occurred
8	VAccompanied	The victim was accompanied by one other person when the
9		incident occurred
10		
11	VGroup	The victim was part of a group when the incident occurred
12	VArmed	The victim carried a knife at the time of the incident
13	VUnarmed	The victim did not carry a knife at the time of the incident
14	Vinitiated	The victim initiated the violence
15	VPreVic	The victim had previously been a victim of violence
16	VAttackOther	The victim had attacked other people prior to the incident
17	VIntervene	The victim had attempted to de-escalate violence directed at
18		someone else
19		
20	VUInf	The victim was under the influence of drink or drugs
21	TPInitiated	A third party initiated the violence
22	Premed	The offence was premeditated
23	Coordinated	The attack was described as coordinated
24	MistakenID	The victim was attacked due to mistaken identity
25	OneVic	The incident involved just one victim
26	Targeted	The offender targeted the victim
27	Random	The victim was attacked at random
28	School	The incident occurred within the grounds of a school or as the
29		victim left school grounds
30	Park	The incident occurred in a park
31	Indoors	The incident occurred indoors
32	VHome	The offence occurred in the victim's home
33	Vchased	The victim was chased during the incident
34	Secluded	The incident occurred in a secluded area or in an area where
35		there were few or no witnesses
36	Public	The offence occurred in a place or at a time when there would
37		likely be witnesses
38	VMoved	The victim was moved by the offender following the attack
39	VLeft	The victim was left in situ following the attack
40	HiddenDispose	Following the incident, the knife was hidden or disposed of
41	OffFled	The offender fled the country following the attack
42	Wone	The victim sustained one wound
43	Wtwo	The victim sustained two wounds
44	WMulti	The victim sustained multiple wounds during the attack
45	Brawl	Reports indicate there was a brawl connected to the incident
46	Feud	The victim and the offender (or the groups they belong too) had
47		a long-standing feud
48	VCarHit	The victim was purposely hit with a car prior to being stabbed
49	Lured	The victim was lured to the area where the incident took place
50	DrugDispute	A drug dispute occurred
51	Blitz	The victim was ambushed and taken by surprise
52	Frenzied	The offender reportedly lost control
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3	Sustained	The incident took place over a prolonged period of time
4	Arranged	The victim(s) and offender(s) had arranged to meet
5	Disagreement	There was a disagreement prior to the incident
6	PriorConflict	There had been some prior conflict separate to the any
7		disagreement immediately prior to the incident occurring
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12	Disrespect	The incident occurred followed a perceived disrespect
13	Revenge	The incident occurred in revenge
14	Crime	The offence occurred during another crime being committed
15	Message	The incident occurred to send a message/warning
16	Racial	The incident was racially motivated
17	Jealousy	The motive for the incident was jealousy
18	Rejection	The motive for the incident was rejection
19	EasyTarget	The victim was attacked due to being perceived as an 'easy
20		target.'
21	Justice	The attack was perceived as justice by the offender
22	Unprovoked	The victim did nothing to provoke the offender
23	Partner	The victim and offender partners/ex-partners
24	Associates	The victim and offender knew of each other but were not
25		friends
26	Family	The victim and offender were related
27	GangMembers	The victim and offender were affiliated to gangs, and this is how
28		they knew of each other
29	Friends	The victim and offender were friends or ex-friends
30	Rivals	The victim and the offender engaged in rivalry with each other
31	Enemies	The victim and the offender saw themselves as enemies
32	Fatal	The incident resulted in death caused by knife or sharp object
33	HandedIn	The offender handed themselves in to Police following the
34		incident
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