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The association between shame and substance misuse in young people: A review of the literature

BACKGROUND: Shame has been associated with a range of maladaptive behaviours, including substance abuse. Young people may be particularly vulnerable to heightened shame sensitivity, and substance abuse is a significant problem amongst UK adolescents. Although there appears to be a relationship between shame and substance abuse, the direction of the relationship remains unclear. **AIM:** We reviewed the literature relating to shame and substance abuse amongst young people. **METHOD:** Five electronic databases were searched for articles containing terms related to 'adolescence', 'shame' and 'substance abuse'. Of the two hundred and twelve articles identified in the first sweep, six were included in the final analyses. **RESULTS:** Sexual abuse is indicated as a predictor of shame-proneness. Substance abuse may be a mechanism by which individuals cope with negative feelings. In general, there is a lack of literature investigating the shamesubstance abuse relationship among adolescents. The available literature associates shame-proneness with poorer functioning and suggests that this may lead to psychopathology and early-onset substance misuse. Scant attention has been paid to the cognitive and emotional processes implicated. Further research is required to ascertain the strength of the shame-substance abuse relationship in young people and to develop appropriate interventions for this population.

1	The association between shame and substance misuse in young people: A review of the literature
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8 Abstract

BACKGROUND: Shame has been associated with a range of maladaptive behaviours, including substance abuse. Young people may be particularly vulnerable to heightened shame sensitivity, and substance abuse is a significant problem amongst UK adolescents. Although there appears to be a relationship between shame and substance abuse, the direction of the relationship remains unclear. AIM: To review the literature relating to shame and substance abuse amongst young people. METHOD: Five electronic databases were searched for articles containing terms related to 'adolescence', 'shame' and 'substance abuse'. Of the two hundred and twelve articles identified in the first sweep, six were included in the final analyses. **RESULTS:** Sexual abuse is indicated as a predictor of shame-proneness. Substance abuse may be a mechanism by which individuals cope with negative feelings. In general, there is a lack of literature investigating the shame-substance abuse relationship among adolescents. The available literature associates shame-proneness with poorer functioning and suggests that this may lead to psychopathology and early-onset substance misuse. Scant attention has been paid to the cognitive and emotional processes implicated. Further research is required to ascertain the strength of the shame-substance abuse relationship in young people and to develop appropriate interventions for this population.

Keywords: shame; substance abuse; adolescents

28 Introduction

- 29 A significant body of research has investigated the effect of factors related to self-
- 30 concept on substance use in young people. Self-esteem, impulisivity and shame
- 31 have all been associated with drug and alcohol use in young people but current
- 32 understanding oif the association with shame in particular is limited. This paper will
- 33 review current empirical and conceptual understanding of the association between
- 34 shame and substance use in this population.
- 35 Shame relates to global, negative feelings about the self (Dearing, Stuewig, &
- Tangney, 2005). It has been described as an intense negative emotion, which can
- 37 result in feelings of inferiority and powerlessness (Wicker, Payne, & Morgan, 1983).
- 38 Shame can arise from a disparity between the ideal self and the actual real self,
- 39 leading to feelings of inadequacy and disgust. Although it is generally associated
- 40 with negative consequences, it is notable that shame is a universally-experienced
- 41 emotion and that moderate levels can be beneficial (Cook, 1987; Potter-Efron,
- 42 1987).
- 43 Much of the literature has sought to distinguish the concepts shame and guilt. It has
- 44 been suggested that both emotions are essential to the experience of being human
- 45 and that they can occur either independently or in tandem with each other (Clark,
- 46 2012). Both shame and guilt enable self-evaluation and serve to guide our
- 47 interactions with others (Tangney & Dearing, 2002). Shame has been described as a
- 48 'failure of being', or global self-condemnation, whilst guilt has been referred to as a
- 49 'failure of doing' (Potter-Efron, 1987). As such, shame is characterised by 'hiding' the
- 50 self, whereas guilt may manifest itself in reparative behaviours. Consequently,
- 51 similar situations can result in distinct responses, depending on the individual's
- 52 attributional style (Lewis, 2008). Vulnerability to shame can arise from a conflict
- 53 between the ideal self and the actual self, whilst vulnerability to guilt is perceived to
- 54 result from conflict between the actual self and the 'ought' self (Moretti & Tory-
- 55 Higgins, 1990). It appears that shame is directed primarily at the self, whereas guilt
- 56 addresses the particular act, and may be implicated in social conformity (Quiles,
- 57 Kinnunen, & Bybee, 2002). Shame-proneness is often internalized and has been
- 58 associated with the development of psychopathology, whilst proneness to guilt
- 59 correlates with non-pathological, adaptive empathy (Tangney, Wagner, & Gramzow,

- 60 1992). Feeling shameful warns the individual that their actions may result in them
- 61 being rejected by others; to avoid rejection, the individual seeks to find alternative
- 62 ways of behaving (Nathanson, 1987).

63 The development of shame in children and young people

- 64 The development of shame is dependent on the individual possessing sufficient
- 65 cognitive capacity, having an awareness of social rules and expectations, and an
- 66 understanding of their behaviour in comparison to those expectations, as well as
- adequate theory of mind (Gilbert, 2002; Lewis, 2003). As such, it is unlikely that
- 68 shame develops before the age of two years (Zahn-Waxler, Radke-Yarrow, Wagner, &
- 69 Chapman, 1992).
- 70 Sexual abuse, insecure attachment styles and harsh parenting have all been
- 71 associated with the development of shame in children (Feiring, Deblinger, Hoch-
- 72 Espada, & Haworth, 2002; Gross & Hansen, 2000; Jeffrey & Jeffrey, 1991; Stuewig &
- 73 McCloskey, 2005). Shame is not an automatic consequence of significant trauma,
- 74 however. In families where factors such as parental substance misuse are
- 75 implicated, children may develop more empathic attitudes as they try to minimise
- 76 parental disturbance (Lewis, 1995). If they fail to do so, they are likely to blame
- 77 themselves, developing a negative global attributional style and heightened
- 78 proneness to shame (Lewis, 1995). Differences in the ways males and females are
- 79 socialised can result in females developing a greater sense of responsibility and
- 80 becoming more shame-prone than their male peers, despite having experienced
- similar early life events (Lewis, 1995; Tangney, 1990).
- 82 The manner in which shame manifests itself differs according to the child's
- 83 developmental stage. Young children may experience shame as feeling embarrassed
- 84 and inferior, coping with these adverse emotions by behaving in a controlling,
- 85 critical or rageful manner (Bradshaw, 2005). They may also polarise themselves and
- 86 others as being 'all good' or 'all bad'. During puberty shame can be experienced as
- 87 limiting one's ability to form their identity and may serve to isolate the individual
- 88 (Bradshaw, 2005). Self-evaluation is central to the development of shame in younger
- 89 children (Lewis, 1995; Lewis, 2003), whereas adolescents are more likely to be self-
- 90 evaluative and to compare themselves negatively to peers (Reimer, 1996). It may be
- 91 the case that some adolescents develop an enhanced vulnerability to feeling

- 92 shameful, potentially resulting in the use of maladaptive coping strategies and
- 93 making them more vulnerable to depression, eating disroders and suicide (Reimer,
- 94 1996).

95 Substance use amongst adolescents

- 96 By the age of 17, 75% of American adolescents have drunk alcohol and 28% report
- 97 having binged on alcohol in the previous two weeks (Gunzerath, Hewitt, Li, &
- 98 Warren, 2011). Those who begin using alcohol between the ages of 14 and 16 are
- 99 four times as likely to develop alcohol-related problems in later life than those who
- 100 begin drinking in their 20s (Gunzerath et al., 2011).
- 101 In the UK, 84% of 12-17 year-olds have drunk alcohol and 36% are frequent drinkers.
- 102 15% have been involved in antisocial behaviour as a result of drinking. 22% of boys
- and 25% of girls within this cohort have been drunk three or more times in the past
- month, whilst 26% and 29% respectively have binged on alcohol three or more
- times in the same time period. 42% of boys and 35% of girls report having been
- 106 drunk at least once before the age of 13 (Institute for Alcohol Studies, 2010). The
- 107 same report stated that two major reasons given for underage drinking were
- 108 'escapism' and 'gaining respect from peers'. With reference to illicit substances,
- 109 18% of 11-15 year-olds report having used drugs; 12% having done so in the past
- 110 year. Around 5% of 11 year-olds have used drugs in the past year and the figure
- rises to 25% amongst 15-year olds. Cannabis is the most widely-used drug, taken by
- 112 8% of 11-15 year-olds in 2010. Truanting and school suspension are highly
- correlated with regular drug use, and although 23 000 Britons under the age of 18
- accessed support for their substance misuse in 2009/10, only one in three
- completed treatment (NHSIC, 2011).

The relationship between shame and substance abuse

- 117 In adult samples, shame has been strongly implicated in behaviours which enable
- individuals to escape feelings of worthlessness and failure, such as binge-eating,
- 119 sexual risk-taking and substance use (Adams & Robinson, 2001; Hayaki, Friedman, &
- 120 Brownell, 2002; Peñas-Lledó, Fernández, & Waller, 2004; Talbot, Talbot, & Tu, 2004).
- 121 Heightened feelings of shame significantly increase vulnerability to addictive
- behaviours, particularly substance abuse (Cook, 1987). Although several studies
- 123 indicate that the feelings of shame which can arise from the stigma surrounding

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- substance misuse may serve as a barrier to treatment (Cook, 1987; Corrigan,
- 125 Watson, & Miller, 2006; Luoma et al., 2007), it has been suggested that this stigma
- has a greater effect amongst certain groups. In particular, females seeking
- 127 treatment for substance-related problems may face greater stigma that males and
- often risk the breakdown of intimate relationships, as well as the removal of their
- 129 children (Blume, 1990; O'Connor, Berry, Inaba, & Weiss, 1994; Reed, 1987).
- 130 Consequently, females who enter treatment programs often experience higher
- levels of shame and guilt than their male counterparts (Mason, 1991).

Rationale for the current review

- 133 As described, some evidence suggests that shame can arise from early adversity
- and that it is correlated with a range of maladaptive behaviours, including substance
- misuse. Substance misuse is a significant problem amongst young people but little
- 136 research has investigated the impact of shame on drug and alcohol use in this
- population. This paper will review empirical evidence on the relationship between
- shame and substance abuse in young people in order to identify the areas that
- 139 substance misuse interventions might focus on in this population.

Search strategy

- 141 Five electronic databases were searched (PsycArticles, PsycInfo, Medline, Web of
- 142 Science and PubMed) for English-language articles published in peer-reviewed
- journals for all periods up to, and including, January 2012. Articles were searched for
- using terms related to 'adolescence' (e.g., 'adolescen*', 'teen*', 'child*', 'juvenile*',
- 'youth*'), 'shame' (e.g. 'shame*') and 'substance abuse' (e.g., 'substanc*', 'drug*',
- 'alcohol*', 'illicit*', 'drink*'). The use of '*' denotes truncated search terms. For the
- purposes of this review, 'adolescent' refers to individuals aged 11-19. Where
- databases could be searched by topic, 'psychology' was specified. The search
- 149 yielded 220 unique results. Following review of the abstracts, articles were excluded
- 150 if they were unavailable in English (n=9) or if they focused on unrelated physical or
- psychological health problems (n=58). A further 64 articles were excluded for other
- reasons, e.g. focusing on shame related to physical health issues such as HIV. Of the
- remaining 89 articles, 59 were excluded as they did not contribute to the literature
- relating to the relationship between shame and substance abuse (e.g. 19 papers
- focused on shame arising from parental substance abuse use). The remaining

articles (n=30) were read to ensure that they included a research question and outcome measures. Seven papers exclusively reviewed the literature, but were not empirical studies. Another five discussed cases and process issues in therapy but, did not relate specifically to shame as either a contributing factor or a consequence of substance abuse. Given that these papers did not contribute to the scientific understanding of the relationship between shame and substance abuse, they were excluded. A further ten papers were excluded as they used samples of children (preteen) or adults (post-adolescent). Two papers were excluded as they used adolescent samples but did not address substance use. The final analyses included six empirical papers.

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Results 166

- 167 Details of the articles reviewed can be seen in Table 1. All of the papers had been
- 168 published between 1989 and 2012. Four of the studies were quantitative in
- 169 methodology and two were qualitative. Amongst the quantitative studies, sample
- 170 sizes ranged from 97-816. The qualitative studies employed 12 and 597
- 171 participants, respectively. One paper considered the development of shame in young
- 172 people in treatment for substance use; five investigated the relationship between
- 173 shame and substance use.

Insert Table 1 here

The role of sexual abuse in the development of shame

Of the six studies reviewed, one investigated factors resulting in heightened shame 176 177 in later life (Edwall, Hoffmann, & Harrison, 1989). This study identified sexual abuse, including incest, as predictive of shame-proneness. In their qualitative study of 597 178 179 adolescent girls, it was found that 35% of inpatients receiving treatment for 180 substance abuse reported previous sexual abuse. Sexual abuse was highly 181 correlated with a history of physical abuse and those who had been sexually abused 182 were more likely to have attempted suicide in the previous year. Sexual abuse was 183 also highly correlated with feelings of shame, particularly amongst those who had 184 experienced only extrafamilial abuse (p<0.001). The authors concluded that abused female adolescents may internalise adverse experiences and construct an image of 185 themselves as 'bad', making them vulnerable to suicidal ideation and mental health 186 187 problems. Methodologically, however, the study had some limitations: 58 girls who denied having been sexually abused during interviews with the research team were 188 categorised by their therapists as having reported sexual abuse in therapy sessions, 189

191 standardised measures, and thus the severity of the shame experienced cannot be 192

and excluded from analyses. Additionally, the researchers made no use of

assessed. No attempt was made to ascertain the duration or nature of the sexual

193 abuse and only limited information pertaining to the course of the participants'

194 misuse of substances was available.

195	The relationship	between	shame and	substance	misuse

- 196 Two of the studies included in this review found significant associations between
- 197 feelings of shame and maladaptive behaviours, including substance abuse
- 198 (Abramowitz & Berenbaum, 2007; Dearing et al., 2005).
- 199 Abramowitz & Berenbaum's (2007) study found that the desire to enhance positive
- affect was a strong motivator of alcohol use, and that shame reliably predicted
- 201 'impulsive-compulsive' (IC) behaviours, including substance abuse, sexual activity,
- 202 playing video games and obsessive-compulsive-type behaviours such as cleaning.
- 203 Shame was most strongly associated with substance abuse (correlation = 0.16;
- p<0.05). However, their data were based on retrospective accounts of behaviours
- 205 the participants had engaged in during the past three months and, although the
- 206 associations reported were statistically significant, there was no opportunity to
- 207 investigate the direction of causality in the relationship. In addition, the sample was
- aged 16-30 and, as the authors note, many impulsive and compulsive behaviours
- 209 diminish with age.
- 210 Carrying out semi-structured interviews with college students, Lashbrook (2000)
- 211 found that the desire to avoid ridicule, isolation and feeling inadequate was a key
- 212 factor in alcohol use. Despite the participants not using terms such as 'shame'
- 213 explicitly, the literature suggests that ridicule, isolation and inadequacy are closely
- 214 linked to constructs of shame-proneness (Cook, 1987; Potter-Efron, 1987; Wicker et
- 215 al., 1983). It is possible that low self-esteem was implicated in these negative
- 216 emotions, although this was not investigated as part of Lashbrook's study. More
- 217 recent research indicates that low self-esteem is associated with vulnerability to
- 218 peer pressure and increased substance use (Dielman, Campanelli, Shope, &
- 219 Butchart, 1987)
- 220 Dearing et al. (2005) carried out three studies to test the relationships between
- 221 shame- and guilt-proneness amongst undergraduate students and prison inmates,
- 222 hypothesising that the former would be positively correlated with substance abuse,
- 223 whilst the opposite would be true for guilt-proneness. Of their undergraduate
- sample, 7.3% had symptoms on problematic alcohol use and 15.4% indicated
- 225 symptoms of problematic drug use. Shame was positively correlated with alcohol
- 226 problems but not with problematic drug use. In contrast, guilt was found to correlate

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227 negatively with both drug and alcohol problems; findings which supported those 228 presented by Quiles et al. (2002). The authors concluded that although shame-229 proneness was significantly associated with problematic drug use, it was more 230 strongly correlated with alcohol use. The shame-substance abuse relationship 231 appears consistent amongst samples regardless of the severity of substance abuse 232 and appears to be applicable to a range of populations. The authors suggested that 233 alcohol and drugs may be used as a way of coping with difficult feelings, such as shame, but noted that the use of substances may in itself result in additional shame. 234

The majority of the studies included in this review indicate that vulnerability to shame is associated with increased drug and alcohol use in young people. Some research suggests that feelings of shame can arise as a consequence of using substances (Arentzen, 1978; Blume, 1990; Cook, 1987; Corrigan et al., 2006; Fossum & Mason, 1986; Luoma et al., 2007; O'Connor et al., 1994; Reed, 1987), and , of the papers reviewed here, one suggests that, amongst those who already use substances problematically, shame may have a positive impact by increasing motivation to seek treatment. In their study of 188 16-24 year-olds entering treatment for moderately problematic substance abuse, Rosenkranz, Henderson, Muller, & Goodman (2012) found that those individuals who reported greater shameproneness were more likely to recognise their substance misuse and seek treatment. Further research has suggested that these individuals demonstrate superior treatment outcomes (Williams et al., 2008). However, the data were subject to disclosure biases, and Rosenkranz et al. (2012) used a measure of treatment motivation which conflates proneness to shame with motivation to seek treatment, and which included items (e.g., If I remain in treatment it will probably be because I'll feel very bad about myself if I don't) open to being interpreted as either 'shame' or 'quilt' by participants.

Discussion

Summary of findings

This paper sought to review the literature relating to shame and substance abuse amongst young people. Despite the search strategy specifying 'adolescent', and variations thereof, only five papers used samples which investigated teenagers and young adults. An additional study carried out by Quiles et al. (2002), used a sample

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aged \leq 27 but excluded all participants aged 22-27 (n=17) from their analyses and 259 260 was thus included in this review. Amongst the remainder of the studies the 261 participants ranged in age from 7-80. It appears that there is a paucity of research 262 into the association between shame and substance abuse amongst young people 263 and this lack of data limits the extent to which theoretical or empirical conclusions 264 can be drawn. It appears that early maltreatment and neglect can result in 265 heightened shame-proneness, possibly as a result of the adverse experiences being 266 internalised, and that greater maladjustment results from more severe adversity. 267 Although the shame arising from maladaptive early experiences has been found to 268 correlate significantly with substance-abusing behaviours, it may also motivate 269 individuals to seek and engage in treatment. It appears from the evidence reviewed 270 that it is shame which is most heavily implicated in these mechanisms, not guilt.

The literature suggests that shame-proneness is generally associated with poorer functioning, psychopathology and early-onset substance misuse. Adolescents are more likely to compare themselves negatively to peers (Reimer, 1996) and those who develop heightened proneness to shame may be more likely to utilise coping strategies such as criminal or risk-taking behaviours in an attempt to gain acceptance from peers (Adams & Robinson, 2001; Arnett, 1995; Hayaki, Friedman, & Brownell, 2002; Peñas-Lledó, Fernández, & Waller, 2004; Talbot, Talbot, & Tu, 2004).

Whilst there is some indication that higher levels of shame result in a greater 278 number of maladaptive behaviours (Cook, 1987), it also appears that shame-279 280 proneness can affect males and females differently. Based upon the evidence reviewed here, it is tentatively speculated that shame in females results in 281 behaviours which harm the self, such as eating disorders, whereas males externalise 282 283 the negative self-image and act in a more antisocial manner. It is suggested that, if 284 shame encompasses negative affect and symptoms typically observed in 285 depression, it is to be expected that young people who demonstrate a tendency 286 towards feeling shame would also score poorly on measures of self-worth and self-287 esteem.

The studies included in this review were conducted using a wide range of outcome measures and methodological designs; each of which demonstrated both strengths and limitations. For the most part, researchers made efforts to distinguish between

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shame and guilt which is a key methodological requirement given the conceptual overlap in these variables. Nevertheless, it is of note that each of the studies reviewed here conceptualised shame in distinct ways and investigated different factets of substance use, further limiting the extent to which overarching conclusions can be drawn.

Gaps in the literature

In addition to the limited literature that focuses exclusively on adolescent populations, the majority of studies have failed to address misuse of substances in a discrete manner. Although some studies asked about drug and alcohol use separately (Dearing et al., 2005; Quiles et al., 2002), not all did so. It cannot be presumed a priori that all addictive behaviours are a product of the same mechanisms and this warrants further investigation.

More fundamentally, although there is some evidence of an association between shame and substance abuse, there has been little focus on the cognitive and emotional processes which mediate this relationship. Shame is associated with substance abuse, and substance abuse has a major impact on both society and the individual; as such, future research should try to identify salient risk factors and develop effective treatments. This review has not included studies which aim to treat substance misuse per se; although two studies did use participants engaged in treatment programmes (Edwall et al., 1989; Rosenkranz et al., 2012) and there is some indication that reducing shame is integral to positive treatment outcomes. Some research suggests that particular factors related to shame, specifically 'fragility and lack of control' and 'loneliness and emptiness', appear to be associated with addiction (Cook, 1987), and future research should investigate the specific antecedents and maintenance processes of these factors and the implications for substance abuse treatments. At present, some evidence suggests that shame results in vulnerability to addiction to alcohol and illicit drugs, but little understanding of how. Similarly, there is an absence of evidence relating to the age at which shame-prone adolescents are most vulnerable to substance abuse. Few studies have investigated young people exclusively, and, of the papers reviewed here, none has compared adolescents at different developmental stages. It may be that there is a point of 'greatest vulnerability' and, if so, there will be significant implications for the ways in which adolescents are educated about alcohol and illicit

substances, and preventative measures are established. In addition, the majority of the studies used samples in which females were over-represented. Future work should attempt to redress the balance by investigating the shame-substance abuse relationship in both young males and young females.

In this review, only papers relating to Western cultures were included. Although there was a clear rationale for this, given the prevalence of adolescent substance abuse in the UK and USA, there has been limited scope to investigate the shame-substance abuse relationship, or the meaning surrounding substance use, in social sub-groups. Although some studies used samples diverse in ethnicity and age, the present review has noted little that is relevant to constructs of class or religious belief. Although such factors have been investigated to only a limited degree, some research has attempted to improve our understanding of them (Rastogi & Wadhwa, 2006; Sandberg, 2010). Misusing substances may result in heightened shame only in specific groups; alternatively, certain social clusters may be more or less inclined to misuse substances. It should not be presumed that the findings of this review can be applied to all groups without further exploration of salient factors.

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Table 1(on next page)

Selected papers

Table 1 - Papers selected for review

Authors & Title	Year	Research Aim	Measures	Sample	n	Findings	Evaluation
Abramowitz, A., & Berenbaum, H. Emotional triggers and their relation to impulsive and compulsive psychopathology.	200 7	Emotional triggers as a predictor of impulsive-compulsive behaviours	BIS-11, OCI	College Students	189	Anger & shame predict I-C pathology	Correlational study
Dearing, R. L., Stuewig, J., & Tangney, J. P. On the importance of distinguishing shame from guilt: Relations to problematic alcohol and drug use.	200 5	Clarifying the role of shame and guilt in substance abuse	MCMI & TOSCA	Students & inmates	816	Shame correlates with substance abuse in both samples	Correlation
Table 1 - Included Articles Edwall, G. E., Hoffmann, N. G., & Harrison, P. A. Psychological correlates of sexual abuse in adolescent girls in chemical dependency treatment.	198 9	Psychopathology & self- concept in victims of sexual abuse	Interviews by counsellors	Adolescent females	597	Sexual abuse & shame are common in substance abuse	Limited data re: severity of abuse
Lashbrook, J. T. Fitting in: Exploring the emotional dimension of adolescent peer pressure.	200 0	Emotions and conformity	Qualitative	College students	12	Facets of shame motivate individuals to drink alcohol with peers	Small sample; Retrospective

Quiles, Z. N., Kinnunen, T., & Bybee, J. Aspects of guilt and self-reported substance use in adolescence.	200	The relationship between guilt and adolescent substance abuse	TOSCA, GI, MFCGI, PFQ2	Students	230	Substance abusers have weaker internalisation of societal standards	Retrospective, self-report data Focus on guilt
Rosenkranz, S. E., Henderson, J. L., Muller, R. T., & Goodman, I. R. Motivation and maltreatment history among youth entering substance abuse treatment.	201	The relationship between maltreatment and motivation to change	SOCRATES, TEQ, TAQ, AUDIT, DAST, PSS	16-24 year-old substance abusers	188	Shames is associated with substance use	89% positive response rate Self-reported maltreatment