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## Impact of Social Context on the Self-Concept of Gay and Lesbian Youth: A Systematic Review

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DOI: 10.52095/gpa.2020.1343

Received: 24 January 2019; Accepted: 25 February 2019

### Abstract

*Objectives: Self-concept distortion has been extensively linked with decreasing mental health in gay and lesbian youth. Social context has been proposed to have a moderating effect on the development of a healthy self-concept. However, no good quality review has approached these concepts with regards to LGBT youth.*

*Methods: A systematic review was conducted on the relationship between social context and self-concept in gay and lesbian youth. Twenty studies were included in the review.*

*Results: Quality assessment of papers yielded moderate methodological strength. Findings implied that social context has considerable influence on self-concept development. Discrepancies in assessment methods, areas of social context examined, and one-dimensional nature of examining self-concept interferes with drawing explicit conclusions regarding the relationship between social context and self-concept.*

*Conclusion: Positivity of social context is not conclusively relatable to positive self-concept development, and similarly, a negative context is not predetermining of self-concept distortions. Building on resilience factors of gay and lesbian youth, working together with families, and advancing and utilizing available educational and community resources should mitigate the strength of overt and covert heterosexism hindering healthy self-concept development. Further longitudinal and cross-cultural research will be necessary to provide insight into the mechanisms of associations.*

### Keywords

gay, lesbian, youth, social context, self-esteem, self-concept, systematic review, adolescents, LGBT

## INTRODUCTION

Gay and lesbian youth often face adverse reactions from their environment due to their “sexual minority status” (Garofalo et al., 1998). Sexual minority status is a concept that involves multiple elements: sexual attraction (the genders one is attracted to), behavior (the gender of one’s sexual partners), and identity (label assigned to oneself) (Savin-Williams & Diamond, 2000). Although there are a number of categories included within each element, the present work will focus on sexual attraction, and within that element, gay and lesbian youth.

Adolescence is a period of development, the course of which allows youth to explore their personal identities and begin to act according to gender roles acceptable by societal structures around them (Rotheram-Borus et al., 1995). During this time of development, gay and lesbian youth also have to come to

terms with their sexual identities and examine what their sexual orientation means in relation to their personal identities (Rotheram-Borus et al., 1995). Forming and preserving a healthy self-concept while accepting one’s belonging to such categories may present as problematic. Research has illustrated (e.g., Silverschanz et al., 2008; Woodford et al., 2012; Woodford et al., 2014) the significance of social context in providing a supportive background to overcoming hurdles and helping adjustments in the development of self-concept. Even though copious amount of research has explored these relationships, the existing body of literature is devoid of an overview of findings.

### Self-concept in gay and lesbian youth

Although self-concept is commonly defined as a collection of beliefs about one’s self (Campbell, 1990), clear definitions of self-concept will vary between authors. Bentall et al. (2001)

cohesively reviewed the commonly used terminology around self-concept, identifying five areas that are commonly used to define self-concept:

- self-esteem
- self-consciousness
- self-representations
- self-schemas
- self-perception

Development as an adolescent for gay and lesbian youth may feel even more difficult, as they also need to go through a process of constructing a healthy self-concept in a primarily heterosexual social environment (Rotheram-Borus et al., 1995). Each of the previously mentioned five areas is believed to be impacted in sexual minority youth by both internal and external contexts. Higgins' (1987) self-discrepancy theory helps us conceptualize the tensions of developing an LGBT (lesbian, gay, bisexual, and transgender) self-concept in a heteronormative context. Self-discrepancy theory proposes that individuals aim to achieve a position where their self-concept is in line with their socially learnt standards and ideals. According to self-discrepancy theory, if these conditions are not met, the person will be susceptible to feelings of fear, shame, rejection, and guilt, and high self-discrepancy would lead to low self-esteem and a negative self-concept.

Although ample studies concentrated on pinpointing how self-concept develops and how it is influenced in youth, an emerging line of studies started to focus on identifying the directions and nature of relationship between both positive and negative beliefs about the self and others, and the social context, concentrating specifically on gay and lesbian youth (Vincke & van Heeringen, 2002; Snapp et al., 2015; Wilkerson et al., 2017). For example, Vincke and van Heeringen (2002) examined a group of 197 gay and lesbian youth in a longitudinal study and found that when youth's environment, such as family, friends, and confidants, is aware of their sexual identity and is supportive and nurturing, gay and lesbian youth scored higher on self-concept measures. These findings are supported by Snapp et al. (2015) who studied 245 LGBT youth and showed that a positive and supportive environment (such as family, friends, and community) was associated with higher self-esteem in youth ( $r=0.37$ ) and also with a more positive attitude toward their sexual identities ( $r=0.36$ ). Findings of both studies were underpinned by recent findings by Wilkerson et al. (2017) who examined a sample of 108 sexual minority youth and found an association between a supportive social environment (such as family, friends, and LGBT youth organizations) and youth's self-esteem ( $\beta = 0.72$ , 95% CI [0.38, 1.06]).

## Social context

It is suggested that an adverse and hostile social environment can negatively impact upon the well-being of sexual minority youth (Silverschanz et al., 2008; Woodford et al., 2012; Woodford et al., 2014).

Social context theory (Earle & Earle, 1999) provides a framework for investigating the way self-concept in sexual minority youth may be affected by identifying and changing current social views of and attitudes toward gay and lesbian young people. Social context is a concept that provides an opportunity to assess perceptions of social support and acceptance, social behaviors and relationships, problems, decisions and dilemmas, and to establish models to resolve these through the incorporation of more inclusive attitudes and beliefs. The three key dimensions of social context theory are societal structures, social processes (perceptions, attitudes, values), and common patterns of social behaviors.

Out of the three dimensions, the most applicable in relation to sexual minority youth is the component of social processes (Garofalo et al., 1998). Gay and lesbian youth's sexual orientation does not conform to expected social norms and traditions and, as such, is commonly seen as danger to society, often producing discrimination, marginalization, and inequalities (Garofalo et al., 1998; Silverschanz et al., 2008; Woodford et al., 2012; Woodford et al., 2014).

## Social context and self-concept in gay and lesbian youth

Social contexts in which youth live can have significant implications for their development and psychological adjustment (Garofalo et al., 1998). Generally perceiving others as hostile often leads to internalized homophobia, distorted self-perception, and decreased self-esteem, essentially hindering the development of a healthy self-concept (Rosario et al., 2011).

Literature suggests that adolescent development is further influenced by being gay or bisexual in an essentially heterosexual society (Sophie, 1986; Savin-Williams, 1990). The aforementioned studies found a positive relationship among social support, positive attitudes to homosexuality, and an increase in self-esteem. Generally, research has shown that social context is positively related to self-esteem (McNicholas, 2002; Detrie & Lease, 2007). Sexual minority youth may perceive themselves as disconnected from the socially accepted majority heterosexual group, resulting in a lack of opportunity to take advantage of self-esteem built on membership in that group (Grossman, 1997). This view may suggest that homosexuality

and deviance from expected gender-typed behaviors may lead to marginalization and may prevent the development of a positive and healthy self-concept (Rotheram-Borus, et al., 1995).

In a study of 106 sexual minority youth, Dahl and Galliher (2010) found moderate to large negative correlations between sexual orientation conflict and self-esteem, suggesting that individuals with higher orientation conflict may present lower self-esteem. In contrast, Bauermeister et al. (2010) examined 350 LGBT youth looking to establish an association between same-sex relationships and self-esteem. They found that being involved in same-sex relationships was positively associated with higher self-esteem in males; however, the same had no association with self-esteem in females.

Living in a supportive environment and being able to rely on positive social relationships can be a contributor to increased self-esteem, self-acceptance, and self-perception (Ensel & Lin, 1991; Rosenfield & Wenzel, 1997). This view is evidenced by studies that found a significant positive relationship between social support and self-esteem (D'Augelli & Hershberger, 1993; Bagley & Tremblay, 1997; van Heeringen & Vincke, 2000).

In a longitudinal study of 197 gay and lesbian youth, it was found that social relationships can essentially be a source not only of tension and stress, but also of approval and support (Vincke & van Heeringen, 2002). The authors also found that having someone to trust with their sexual orientation increased self-esteem in gay and lesbian youth. Similarly, examining a sample of 156 lesbian, gay, and bisexual youth, Rosario et al. (2005) reported a significant positive association between social desirability and self-esteem, as well as between social support from family and friends and self-esteem. Additionally, they showed a negative correlation between negative social relationships and self-esteem.

It is also suggested that concealing sexual orientation may delay the development of a positive self-concept in sexual minority youth (Bos et al., 2008), which can manifest in low self-esteem, rejection of one's sexuality, and increased internalized homophobia (conforming one's self-concept to be aligned with the stigmatizing reactions of society and developing a negative attitude toward the self as belonging to a stigmatized group) (Bauermeister et al., 2010). These findings were supported by Russel et al. (2014) who examined a sample of 245 LGBT youth and found that although being out at school (revealing one's sexual identity to others, such as family, friends, and peers) did not specifically impact on self-esteem, hiding sexual orientation did in fact show a significant negative association

with self-esteem and with life satisfaction. These issues can negatively affect youth development and well-being, leading to not just personal issues, but also to a wider-spread overload and higher costs in the healthcare system. As in previous studies, Peplau and Fingerhut (2007) also reported that the presence of social support and social connectedness can lower the impact of distress caused by negative experiences.

Social context not only includes positive or negative attitudes of one's environment but also includes the social support received, as well as the perceived versus actual social attitudes. It is proposed (Sarason et al., 1987) that social support is multifaceted, that involves the perception of being of value to and loved by others, as well as the notion of being contented with the support received from one's environment. In providing these factors, especially important may be the youth's family and friends, school environment, and the wider community.

### School

The influence of social context may also be observed in the school environment. These are settings that are often infused with heterosexism, homophobia, and generally overt gender rules, divergence from which is judged and frowned upon (Elia, 1994; O'Connor, 1994). School environments are expected to be safe, positive, and nurturing, supporting the growth and development of all youth. Despite this common expectation, sexual minority youth may frequently experience stigmatization and victimization. This may include a substantial number of stressors, such as physical or verbal homophobic bullying and rejection by both teachers and peers, as well as cyberbullying and discrimination (Jordan et al., 1997). A study by Remafedi (1987) found that due to bullying 80% of participants showed declining performance in school, 40% reported absence, 30% dropped out, and 40% lost friends. Similarly, Marsiglio (1993) concluded that 88% of heterosexual males in high school reported finding gay relationships repulsive, and only 12% felt they could be friends with a gay male, which, in sexual minorities, may lead to feelings of rejection and lowered self-esteem. As a significant and negative outcome of heterosexism in the school environment, bullying often becomes a central issue to the existence of sexual minority youth. In general, actual or perceived bullying may lead to peer rejection, isolation, and a sharp decrease in self-esteem (O'Moore & Kirkham, 2001; Overbeek et al., 2010). More relevantly to sexual minority youth, homophobic bullying has also been shown to be a significant factor in declines in self-esteem (Waldo et al., 1998; Russell et al., 2011).

## Family and friends

In an early research in studies on the influence of the family environment on sexual minorities, Savin-Williams (1989) examined a sample of 317 youth using self-report measures and found that for girls a more satisfying relationship with their mother predicted higher self-esteem. In addition, for boys, satisfying relationship with both parents predicted higher self-esteem. To further explore this idea, in their study of 72 lesbian, gay, and bisexual youth, Floyd et al. (1999) found that the more positive parents' attitudes were to their child sexual orientation, the higher youth scored on self-esteem measures. Similarly, Legate et al. (2012) found that sexual minority participants who were out to most family and friends presented higher self-esteem, which was further augmented by the amount of perceived social support. Underpinning this finding, Kosciw et al. (2012) reported, after examining a sample of sexual minority high school students, that being more out to one's environment was significantly related to higher levels of self-esteem. Recent evidence from Jackson and Mohr (2016) is in line with the body of these findings, suggesting that there is a significant association between concealing one's sexual orientation and higher levels of self-stigma, lower life satisfaction, as well as lower levels of identity strength. Contradictory to the supporting evidence, other studies (Russell & Joyner, 2001; Diamond & Lucas, 2004) have found that although sexual minority youth may have positive, accepting, and nurturing environments, they may still present lower self-esteem because of internalized issues with peer group belonging.

## Community

Social isolation of sexual minority youth in the community setting was pinpointed by Hetrick and Martin (1987) as an outcome of rejection and stigmatization they so often must face. Reports on these issues were supported by evidence from Berger (1992) who found self-esteem to have a moderate to strong correlation with supportiveness in a sample of gay men. This was further evidenced by Savin-Williams (1994) when examining a sample of gay and lesbian youth, showing that a negative social context, such as a homophobic culture of verbal abuse, threats, and physical harm, had a negative correlation with internalized homophobia and self-esteem. Considering this evidence, the presence and availability of sexual minority youth support organizations, support groups, and the school presence of gay-straight alliances (GSAs) in schools seems especially important, because they not only support the individual, but also provide social connectedness with others and a sense of belonging (Berkman, 1995). This was supported by evidence from research conducted by Lee and Robbins

(1998) on 185 students, showing that social connectedness is related to enhanced levels of self-esteem. Further support was provided by Detrie and Lease (2007) who examined a sample of 218 lesbian, gay, and bisexual youth, reporting a positive association between social connectedness and self-esteem. The importance of positive social ties was also underpinned by evidence from recent studies examining the influence of GSAs (Toomey et al., 2011; Poteat et al., 2015; Ioverno et al., 2016). They found that GSA presence, increased GSA participation, and perceived social support from GSAs were associated with increased self-esteem and a higher tendency to come out to friends, family, and peers.

## Religiosity

As part of the social context, a religious context may act as an origin of self-conflict for gay and lesbian youth. In one of the earliest studies in this field, Clingman and Fowler (1976) examined a sample of gay men at the Gay Metropolitan Church and found that church attendees who experienced belonging and positive religious experiences also reported higher self-esteem, as opposed to those gay men who did not attend this church. In a study of 66 gay, lesbian, and bisexual adults, Shuck and Liddle (2001) found that over 66% of participants reported a friction between their sexual and religious identities. Continuing to research the religious experiences of sexual minorities, Sherkat (2002) reported that of the 2500 religious movements in the United States, almost all disapprove of nonheterosexual orientations, which leads to a frustrating, judgmental, and conflicting social context for sexual minorities. Following their footsteps, in a recent research, Dahl and Galliher (2010) examined 106 sexual minority youth looking for correlations between religiosity and self-esteem. Like previous studies, their findings also suggested that religious experiences initiating positive affect (such as kind and forgiving God) are associated with increased self-esteem, whereas negative religious experiences (such as fear of God, fear of judgment) were associated with low self-evaluation, low self-worth, and decreased self-esteem.

## Assessing social context

In an early study, Thoits (1985) coined the idea that socialization during adolescence and young adulthood inevitably exposes sexual minority youth to the negative attitudes that society commonly holds against nonheterosexual individuals. This learning process often leads to labeling of oneself as "homosexual" with a negative connotation, deviant from the "majority," leading to directing the social homophobia toward the self, resulting in internalized homophobia. Seeing the social

context as hostile may lead to maladaptive responses, decreased self-esteem, and aggression toward oneself and toward other sexual minority individuals (Garnets et al., 1990; Herek et al., 2009; Frost & Meyer, 2009; Szymanski & Gupta, 2009).

Evidence for these views came from Meyer (1995) who studied the differences between gay and straight men, suggesting that gay men overall show higher distress in areas such as self-acceptance and alienation. In a sample of 741 gay men, he found that internalized homophobia, stigma, and victimization predicted higher distress. In addition, more frequent stigmatization was also related to lowered self-esteem and distorted self-perception because of internalized homophobia. Further supporting evidence was provided by Riggles et al. (2017) who studied a sample of 373 lesbian, gay, and bisexual participants and found that increased perception of stigma was related to higher distress and perception of contextual hostility and also to lower levels of self-esteem. These conclusions also suggest that social context of and attitudes toward sexual minority youth may have considerable consequences when trying to develop a healthy self-concept (Pachankis, 2007).

Further assessing the influence of the social environment, Herek et al. (2009) examined a community sample of 2259 lesbian, gay, and bisexual individuals. The study reported that higher levels of internalized homophobia led to lower levels of self-esteem.

### **Aims of this review**

Abundant research has been carried out on the factors positively or negatively impacting on the well-being of sexual minority youth, addressing mainly the issues of their relationships with heterosexual peers or the issues of sexual risk taking and sexually transmitted diseases. Although other aspects, such as social context and its effect on the association between self-concept and well-being of sexual minorities, have been researched, the literature in this area is relatively new, and findings are not homogeneous.

At present, no review has been conducted using the existing literature to synthesize findings on the relationship of the two concepts: social context and self-concept. Thus, the aim of this systematic review is to assess the association between social context and self-concept in relation to sexual minority youth. The secondary aim of this systematic review is to synthesize the findings of current research studies and provide implications for the future for both research and practice, with a goal to assist relevant organizations and professionals in helping sexual minority youth achieve higher self-esteem, a healthy

self-concept, and overall well-being. The following research questions were set:

What is the relationship between social context and self-concept in gay and lesbian youth?

What potential methodological threats are present in the literature?

Based on the research questions, the following were predicted:

A more positive social context would be associated with a more positive self-concept.

The reviewed literature would present methodological inconsistencies.

## **METHOD**

### **Inclusion/exclusion criteria**

Journal articles were required to meet the following criteria in order to be included in the present review. These criteria were defined in accordance to the SPiDER requirements: sample, phenomenon of interest, design, evaluation outcomes, and research type (Murdoch University, 2019). Therefore regarding the inclusion criteria for the review, the papers had to include gay and lesbian young people only (aged between 12 and 25), the articles had to include a measure of social context, both cross-sectional and longitudinal designs were included, the articles had to include a measure of self-concept as an outcome, and research had to be quantitative. Further to that, all studies also had to be written in English and no study could include a mixed sample of heterosexual and LGBT participants.

### **Search strategy**

The present review followed PRISMA guidelines (British Medical Journal, 2009) in conducting the literature search, which was performed in online databases accessible through the University of Edinburgh online library. The databases are representative of the literature published in the research area examined by this review. Because of accessibility reasons, databases were searched in two groups. First, search was conducted in the group involving Academic Search Complete, Child Development & Adolescent Studies, ERIC, Humanities International Complete, and Sociology Course Ultimate. Second, search was conducted in the group involving PsycINFO, PsycARTICLES, AMED, and Global Health. All searches were conducted in July 2017.

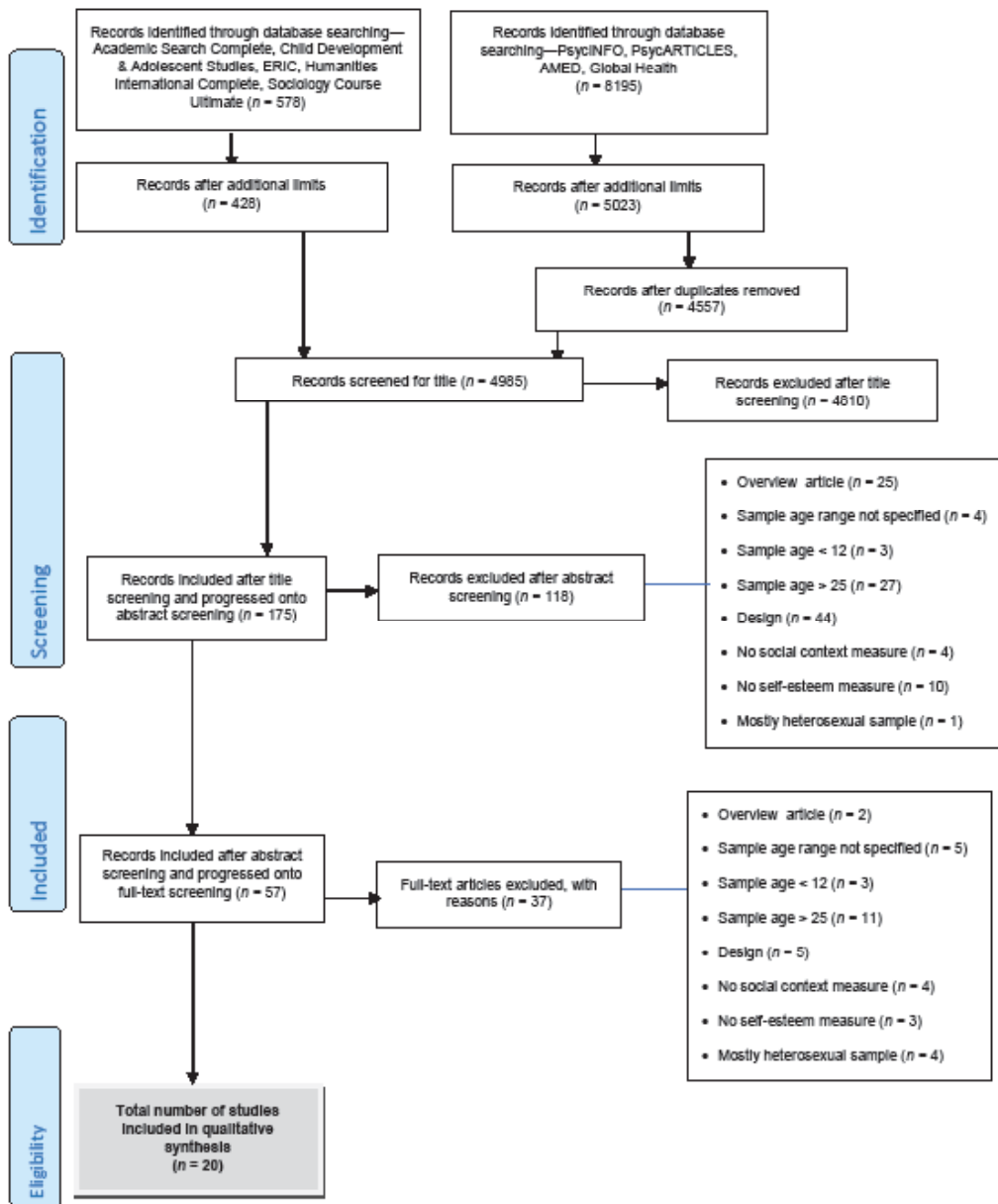


Figure 1. PRISMA flow diagram of the literature search process.

The following search terms were used: *self-concept* OR *self-esteem* AND *gay* OR *lesbian* OR *bisexual* OR *sexual minority* OR *non-heterosexual* AND *youth* OR *adolescen\** OR *student*. The initial results produced were narrowed by the criteria “peer reviewed journal only.” Range on publication date was not set. This decision was made based on the relatively young nature of research in the area, and because of the lack of reviews combining gay and lesbian youth, and self-concept and social context.

All searches and initial selection of articles were conducted by FH with NF also reviewing the inclusion/exclusion criteria for

selected abstracts. Agreement on articles retained was 100%. The process of article selection is illustrated in Figure 1. This systematic review was conducted without financial or other support.

### Quality assessment

Quality assessment of all included articles was performed with the use of an adapted version of the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) checklist (Von Elm et al. 2007). The STROBE checklist appraises

Table 1. Quality ratings of studies

Number	Author (Year)	Title/ Abstract	Introduction		Methods								
			Background Rationale	Objectives	Study Design	Setting	Participants	Variables	Data Sources/ Measurement	Bias	Study Size	Quantitative Variables	Statistical Methods
1	Detrie & Lease (2007)	1	2	2	0	2	2	2	2	1	2	1	1
2	Dahl & Galliher (2010)	1	2	1	0	1	2	0	1	0	1	1	2
3	Grossman & Kerner (1998)	1	2	2	1	2	2	2	2	0	1	2	1
4	Ioverno et al. (2016)	2	2	2	2	2	2	2	2	1	2	2	2
5	Poteat et al. (2015)	1	2	2	1	2	2	1	2	1	2	2	1
6	Hershberger & D'Augelli (1995)	2	2	1	2	2	2	2	2	0	2	2	2
7	Savin-Williams (1989)	1	1	1	1	2	2	2	2	1	2	2	1
8	Snapp et al. (2015)	2	2	2	2	2	2	1	2	0	2	2	1
9	Woodford et al. (2015)	1	2	1	0	1	1	1	2	2	0	2	1
10	Rotheram-Borus et al. (1995)	1	2	1	1	2	2	2	2	2	2	2	1
11	D'Augelli & Hershberger (1993)	1	2	0	0	2	2	1	2	1	2	1	2
12	Russel et al. (2014)	1	2	2	1	1	1	2	2	0	1	2	1
13	Rosario et al. (2005)	2	2	2	1	2	2	1	2	0	2	2	2
14	Blais et al. (2014)	1	2	2	1	2	2	1	2	2	2	2	2
15	Wilkerson et al. (2017)	2	2	1	1	0	1	2	2	1	0	2	2
16	Vincke & van Heeringen (2002)	2	1	2	2	2	2	2	2	2	2	2	2
17	Bauermeister et al. (2010)	2	2	2	2	2	1	2	2	2	2	2	2
18	Rosario et al. (2011)	2	2	2	2	2	2	2	2	2	1	2	1
19	Bos et al. (2008)	2	2	2	2	2	2	1	1	0	2	2	2
20	Toomey et al. (2011)	2	2	2	2	2	2	2	2	2	2	2	2

Number	Author (Year)	Results					Discussion					Total Score
		Participants	Descriptive Data	Outcome Data	Main Results	Other Analysis	Key Results	Limitations	Interpretation	Generalizability	Funding	
1	Detrie & Lease (2007)	2	1	1	1	1	2	2	2	2	0	32
2	Dahl & Galliher (2010)	0	2	2	1	2	2	2	2	2	0	27
3	Grossman & Kerner (1998)	0	1	2	2	1	2	1	2	2	0	31
4	Ioverno et al. (2016)	2	2	2	2	2	2	2	2	2	2	43
5	Poteat et al. (2015)	0	1	2	1	2	2	2	2	1	2	34

Continued Table 1. Quality ratings of studies

Number	Author (Year)	Results					Discussion					Total Score
		Participants	Descriptive Data	Outcome Data	Main Results	Other Analysis	Key Results	Limitations	Interpretation	Generalizability	Funding	
6	Hershberger & D'Augelli (1995)	1	2	2	1	2	2	2	2	2	2	39
7	Savin-Williams (1989)	0	1	2	1	1	2	2	2	1	0	30
8	Snapp et al. (2015)	0	1	2	1	1	2	2	2	2	2	35
9	Woodford et al. (2015)	0	1	1	1	1	2	2	2	2	2	28
10	Rotheram-Borus et al. (1995)	1	1	2	1	2	2	1	2	2	2	36
11	D'Augelli & Hershberger (1993)	2	1	2	1	2	2	1	1	2	2	32
12	Russet et al. (2014)	0	0	2	2	2	2	2	2	2	0	30
13	Rosario et al. (2005)	0	2	2	1	2	2	2	2	2	2	37
14	Blais et al. (2014)	0	2	2	2	2	2	2	2	2	2	39
15	Wilkerson et al. (2017)	0	2	2	2	2	1	1	1	0	2	29
16	Vincke & van Heeringen (2002)	2	2	2	2	2	2	2	2	2	2	43
17	Bauermeister et al. (2010)	2	2	2	1	1	1	2	2	2	2	40
18	Rosario et al. (2011)	1	1	2	1	2	2	2	2	2	2	39
19	Bos et al. (2008)	0	2	2	1	2	2	2	2	2	2	37
20	Toomey et al. (2011)	0	2	2	2	2	2	2	2	2	2	42

methodological quality of cohort, cross-sectional, and case-control studies. In the present review, it was used to assess the mostly cross-sectional and the few longitudinal cohort studies. The checklist evaluates papers based on a 22-item list of criteria. Possible ratings for each criterion are as follows: “Well-covered” (2 points), “Adequately covered” (1 point), “Not covered” (0 point), and “Not applicable” (0 point). The total number of points for one study can range between 0 and 44.

**RESULTS**

**Search results**

Combined primary search yielded 5451 papers. After duplicates were removed, 4985 articles remained, of which 4810 were excluded after title review. Abstracts of the remaining 175 articles were screened, and for reasons explained in Figure 1, 118 were further eliminated. Fifty-seven articles were assessed by

examining their full text using the inclusion/exclusion criteria, yielding a final 20 articles to be included in the qualitative synthesis of the present review. The quality, descriptive, and methodological characteristics of the studies will be examined before discussing the findings of the studies.

**Quality of the studies**

As can be seen in Table 1, 11 of the 20 studies scored in the upper quartile (>33), indicating that more than half the studies were of good to excellent methodological quality. Of those that scored lower, they all still fulfilled more than half of the methodological criteria (all scores above 22).

**Descriptive characteristics of studies**

Table 2 represents a summary of the main descriptive features of the chosen journal articles.



Table 2. Descriptive characteristics of studies

	Author (Year) Country	Design	Sample size (N)/ Age Range/Sexual Orientation	Sexual Orientation Measure	Social Context Measure	Self-Concept Measure	Level of Analysis	Threats
1	<b>Detrie &amp; Lease (2007)</b>  USA	CS	N = 218  Age = 14–22  L, G, B, ONH	PIQ	PSS-Fa; PSS-Fr; SCS; PWB	CSES; PWBS (self-acceptance)	Individual (online survey)	Sample demographics (Caucasian, middle to upper class) Participants already out Correlational design (no causal inferences) Self-report measures
2	<b>Dahl &amp; Galliher (2010)</b>  USA	CS	N = 106  Age = 18–24  L, G, B, ONH	Demographic information/sexual orientation history	MOGS; CES-DS; RCS; BMMRS	RSES	Individual (online survey)	Small sample size Convenience sampling Self-report measures
3	<b>Grossman &amp; Kerner (1998)</b>  USA	CS	N = 90  Age = 14–21  L, G	Sociodemographic and risk factor questionnaire	SNS	RSES	Individual (in person)	Small sample size Convenience sample Geographically limited, urban sample Caucasians underrepresented Population not representative Self-report measure Issues with generalizability and external validity
4	<b>Ioverno et al. (2016)</b>  USA	Long	N = 327  Age = 15–21  L, G, B, Q	Demographic information	GSA presence and participation; Homophobic bullying (single-item question 5-point); School safety (4-point single question)	RSES	Individual (questionnaire—in person or online)	Small sample size Single item measure used for two key indicators Geographically limited sample (limits generalizability)
5	<b>Poteat et al. (2015)</b>  USA	CS	N = 146  Age = 14–19  L, G, B, Q, ONH	Demographic information	Victimization (verbal, relational, and physical); GSA Support and Advocacy; NRI	RSES	Individual (in person)	No causal inferences Population not representative Sample geographically limited (issues with generalizability) Small sample size Self-report measures
6	<b>Hershberger &amp; D'Augelli (1995)</b>  USA	CS	N = 165 [22 omitted— unspecified sex, or identified as heterosexual, or age > 21] [+34 omitted—missing data]  Age = 15–21  L, G, B	Sampling done in lesbian and gay community centers	Victimization variables (Attack I, II, III representing escalating levels of violence— frequency to be assessed 0–3); family support variables (family acceptance 1–4, family protection 0–4, family relations 0–3); BSI	RSES; single-item question on “Comfort with sexual orientation”	Individual (individual—surveys mailed to youth groups)	Small sample size Sample not representative Small number of female participants Self-report measures Interpretation of developmental processes may be speculative without longitudinal design

Continued Table 2. Descriptive characteristics of studies

	Author (Year) Country	Design	Sample size (N)/ Age Range/Sexual Orientation	Sexual Orientation Measure	Social Context Measure	Self-Concept Measure	Level of Analysis	Threats
7	Savin-Williams (1989)  USA	CS	N = 317  Age = 14–23  L, G	GAL-Q	GAL-Q (parental knowledge of their child’s homosexuality; satisfaction with maternal and paternal relationship; contact with parents)	RSES	Individual (surveys)	No causal inferences Small number of female participants Convenience and snowball sampling (issues with generalizability) Ethnic minorities underrepresented Low education individuals underrepresented
8	Snapp et al. (2015)  USA, Canada	CS	N = 245  Age = 21–25  L, G, B, T	Personal characteristics questionnaire	FAS; Retrospective ESM (friend support; community support; young adult adjustment and well-being; life situation)	RSES; LGBT-SES	Individual	ESM is subjective Self-report measures Convenience sampling Geographically limited (issues with generalizability) Retrospective cross-sectional design (recall bias) No causal inferences
9	Woodford et al. (2015)  Canada, USA	CS	N = 187  Age = 18–25  L, G, B, Q, ONH	Two single-item measures on sexual orientation and gender identity/ LGBQ identity salience (one-item question—4-point scale)	Microaggressions (distal/proximal); GAD	RSES	Individual (anonymous web-based survey)	No causal inferences Small sample size Whites overrepresented Self-report measures. Convenience sampling. Internal consistency of self-developed scales may be questionable
10	Rotheram-Borus et al. (1995)  USA	Long	N = 136 (+5 omitted—identified as heterosexual) (+6 withdrawn)  Age = 14–19  G, B, Q	Sampling done at LGBT drop-in center	Gay-related events (7-item measure constructed by authors); LEC	RSES	Individual	Small sample size Convenience sample Exclusively male sample (issues with generalizability)
11	D’Augelli & Hershberger (1993)  USA	CS	N = 194 (+27 omitted)  Age = 15–21  L, G, B	Questions on sexual orientation	Social Aspects of Sexual Orientation (openness; conformity; involvement; disclosure-related events); Disclosure of Sexual Orientation Within the Family (items taken from Savin-Williams, 1990); Mental Health Problems (items taken from Mapou et al., 1983); BSI	RSES	Individual (questionnaires—filled in individually during gay/lesbian group meetings)	Small sample size Urban sample Underrepresentation of females (27%). Overrepresentation of whites (66%) No causal inferences

Continued Table 2. Descriptive characteristics of studies

	Author (Year) Country	Design	Sample size (N)/ Age Range/Sexual Orientation	Sexual Orientation Measure	Social Context Measure	Self-Concept Measure	Level of Analysis	Threats
12	Russet et al. (2014)  USA	CS	N = 245  Age = 21– 25  L, G, B, Q	Demographic information taken from <i>Family Acceptance Project</i> young adult survey	Self-reported past LGBT school victimization (middle or high)—10 items measured; CES-D; Young adult life satisfaction	RSES	Individual (computer assisted/ paper and pencil)	Geographically limited (issues with generalizability) Small sample size No causal inferences. Retrospective accounts (recall bias) Self-report measures
13	Rosario et al. (2005)  USA	Long	N = 156 (+8 omitted)  Age = 14–21  L, G, B, ONH	Baseline interview to establish sexual orientation	Suicidality (questions at baseline interview); BSI; DSM-III-R (conduct problems); PSS; SOS; MCSDS	RSES	Individual	Presuicidal psychological distress not controlled for. Retrospective ESM (recall bias) Geographically limited (limited generalizability) Small sample size. Convenience sampling
14	Blais et al. (2014)  Canada	CS	N = 300  Age = 14–22  L, G, B, Q	Demographic information	Homophobic bullying (exclusion and rejection; humiliation; damage to reputation—5-point nominal scale); LGBIS (4 items in internalized homophobia)	SDQ (4 items used)	Individual (self-report questionnaire)	Mainly urban sample. Underrepresentation of males Issues with representativeness and generalizability No causal inferences Self-report measures Physical bullying not included
15	Wilkerson et al. (2017)  USA, Netherlands	CS	N = 108  Age = 13–20  L, G, B, ONH	Hatch Youth (Houston Area Team Coalition of Homosexuals) recruitment site	Duration of Hatch Youth attendance (1 item); MSPSS; CES-DS	One item (5-point scale): “I have high self-esteem”	Individual (survey)	No causal inferences Small sample size. Convenience sampling
16	Vincke & van Heeringen (2002)  Belgium	Long	N = 197  Age = 15–25  L, G	Demographic information	GHQ (5 items from the depression subscale); BHS; SSS	RSES	Individual (questionnaire)	Small sample size Convenience sampling High attrition rate (36.9%) Geographically limited Weak representativeness and generalizability. Underrepresentation of females Self-report measures
17	Bauermeister et al. (2010)  USA	Long	N = 350  Age = 15–19  L, G, B, ONH	Kinsey Scale (Kinsey et al., 1948)	BDI-II; BSI; MSPSS; ISID	RSES	Individual (interviews; paper and pencil questionnaire)	Convenience sample Urban sample No clear breakdown of sexual orientation of participants. High attrition rate (33.7%). Self-report measure. Geographically limited Issues with representativeness and generalizability

Continued Table 2. Descriptive characteristics of studies

	Author (Year) Country	Design	Sample size (N)/ Age Range/Sexual Orientation	Sexual Orientation Measure	Social Context Measure	Self-Concept Measure	Level of Analysis	Threats
18	Rosario et al. (2011)  USA	Long	N = 156 (+8 omitted—did not meet eligibility criteria) Age = 14–21 L, G, B	Demographic information	Involvement in LGB-related activities [28-item checklist; Rosario et al, 2001]; NHAI; BSI; PSS-Fa; PSS-Fr; SOS; GRSE; MCSDS	RSES	Individual (interview; questionnaire)	Small sample size Urban sample Geographically limited (issues with generalizability). Longitudinal design but only short term (1 year)
19	Bos et al. (2008)  Netherlands, USA	CS	N = 866  Age = 13–15  L, G, B	Single question on same-sex attraction	ADM; EARSI; MBRS (Respect subscale); GHQ (depression); ISQ	SPPA (Social Acceptance subscale); RSES	Individual	Reliance on self-reports. Geographically limited (issues with generalizability) No causal inferences
20	Toomey et al. (2011)  USA	CS	N = 245  Age = 21–25  L, G, B, T	Demographic information	GSA presence; School victimization (10 items adapted from the California Healthy Kids Survey, 2010); CES-D	RSES	Individual (computer assisted/ paper and pencil)	Small sample size. Geographically limited (issues with generalizability) No causal inferences. Retrospective design (recall bias) Self-report measures

Long, longitudinal design; CS, cross-sectional design; L, lesbian; G, gay; B, bisexual; T, transgender; Q, questioning/queer; ONH, other nonheterosexual; GSA, gay-straight alliance; PIQ, Personal Information Questionnaire (Pilkington & D’Augelli, 1995); GAL-Q, Gay and Lesbian Questionnaire (Savin-Williams, 1989); RSES, Rosenberg Self-Esteem Scale (Rosenberg, 1965; 1979; 1989); CSES, Collective Self-Esteem Scale (Luhtanen & Crocker, 1992); PWBS, Psychological Well-Being Scale (Ryff, 1989); LGBT-SES, LGBT Self-Esteem Scale (Shidlo, 1994); SDQ, Self-Description Questionnaire (Marsh & O’Neill, 1982); SPPA, Self-Perception Profile for Adolescents (Harter, 1982); PSS-Fa, Perceived Social Support—Family (Procidano & Heller, 1983); PSS-Fr, Perceived Social Support—Friends (Procidano & Heller, 1983); SCS, Social Connectedness Scale (Lee & Robbins, 1995); MOGS, Measure Of Gay-related Stressors (Lewis, 2001); CES-DS, Center for Epidemiology Studies—Depression Scale (Radloff, 1977); RCSS, Religious Comfort and Strain Scale (Yali & Exline, 2004, as cited in Dahl & Galliher, 2010); BMMRS, Brief Multidimensional Measure of Religiosity/Spirituality (Fetzer Institute, 1999); SNS, Support Network Survey (Berger, 1992); NRI, Network of Relations Inventory (Furman, 1996); ESM, Experience Sampling Method (Csikszentmihalyi & Larson, 1987); BSI, Brief Symptom Inventory (Derogatis & Spencer, 1982); FAS, Family Acceptance Scale (Ryan et al., 2009); GAD, Generalized Anxiety Disorder (Spitzer et al., 2006); LEC, Life Events Checklist (Johnson & McCutcheon, 1980); DSM-III-R, Diagnostic and Statistical Manual of Mental Disorders—3rd edition—Revised (APA-American Psychiatric Association, 1987); PSS, Perceived Social Support (Procidano & Heller, 1983); SOS, Social Obstruction Scale (Gurley, 1990, as cited in Rosario et al., 2011); MCSDS, Marlowe–Crowne Social Desirability Scale (Crowne & Marlowe, 1964); LGBIS, Lesbian/Gay/Bisexual Identity Scale (Mohr & Fassinger, 2000); MSPSS, Multidimensional Scale of Perceived Social Support (Zimet et al., 1988); GHQ, General Health Questionnaire (Goldberg, 1972); BHS, Beck Hopelessness Scale (Beck et al., 1974); BDI-II, Beck Depression Inventory (Beck, 1996); ISID, Index of Sexual Identity Disclosure (D’Augelli, 2002); NHAI, Nungesser Homosexual Attitudes Inventory (Nungesser, 1983); GRSE, Gay-Related Stressful Events (Rosario et al., 2002); ADM, Adolescent Disclosure Measure (Stattin & Kerr, 2000); EARSI, Early Adolescent Role Strain Inventory (Fenzel, 1989a, 1989b, 2000); MBRS, Mentor Behavior Rating Scale (de Bruyn, 2004); ISQ, Identification with School Questionnaire (Voelkl, 1996a, 1996b); SSS, Social Support Scale (Vincke & Bolton, 1996).

The majority of studies were conducted in North America ( $n=18$ ), such as in the United States, Canada, or the two jointly. Only 2 out of the 20 studies originated from Europe, one from Belgium and the other from the Netherlands. The number of participants per study varied between 90 and 866, with a total number of 4865 participants across all studies. Of this number, data from 4755 were analyzed, which provides a satisfactory overall participation rate. However, the five studies where participants were omitted or participants withdrew had relatively low sample sizes.

Fourteen of the 20 studies employed a cross-sectional design, 9 of which recruited participants from all sexual minorities; 3 included lesbian, gay, and bisexual participants; and one included only lesbian and gay participants. The remaining six studies used a longitudinal design, three of which included participants of all sexual minorities; one included lesbian, gay, and bisexual participants; and one recruited solely lesbian and gay participants. All 20 studies used an individual assessment method; no group assessment had been conducted. Apart from one study, recruitment in all studies was conducted through either convenience sampling or snowball sampling; only one study (Blais et al., 2014) recruited participants from the general public. In the samples of 14 studies, males and females were equally represented; of the remaining 6 studies, 4 had an underrepresentation of female participants, 1 had an underrepresentation of male participants; and 1 utilized an exclusively male sample.

All 20 studies used adolescents and young adults as participants, and all reported participants' ages ranged between 13 and 25 across all the papers.

Four of the 20 studies used a mainly Caucasian sample. Seven out of 20 studies used an exclusively urban sample. Additionally, of the 20 studies included in this review, only 3 used solely gay and lesbian participants, whereas 17 included other sexual orientations as well.

### Measurement of sexual orientation

All studies assessed participants' sexual orientation, but this assessment was done with a wide variety of methods. Only three studies used measurement scales to establish sexual orientation of participants. These scales were the Personal Information Questionnaire (Pilkington & D'Augelli, 1995), the Gay and Lesbian Questionnaire (Savin-Williams, 1989), and the Kinsey Scale (Kinsey et al., 1948). The other 17 studies used mainly self-identification questionnaires, demographic and sociodemographic assessment, or questions on participants'

background and sexual orientation history to establish their eligibility for participation, as well as using the sampling site itself, such as LGBT community centers, to find eligible participants. Sexual orientation in the included studies was assessed in a variety of ways with no overlap. However, all studies aimed to exclude exclusively heterosexual participants.

### Measurement of self-concept

All studies assessed self-concept; however, only one domain of self-concept, as a key indicator, was used, which was self-esteem. With the exception of 4 studies, all studies used the full 10-item Rosenberg Self-Esteem Scale (RSES; Rosenberg, 1965, 1979, 1989) to assess self-esteem as a measurement of self-concept, and 1 study used 6 items of the RSES. Other measurements of self-concept included the Collective Self-Esteem Scale (CSES; Luhtanen & Crocker, 1992), the LGBT Self-Esteem Scale (Shidlo, 1994), the Self-Description Questionnaire (Marsh & O'Neill, 1982), and the Self-Perception Profile for Adolescents (Harter, 1982). It is apparent from the list outlined that most studies in this review showed congruency in the measurement used to assess self-concept, which provides a moderate to strong basis to compare study findings.

### Global self-concept measures

As it was pointed out earlier, self-concept is a collection of several domains, of which the most studied in relation to gay and lesbian youth is the domain of self-esteem. None of the studies included in this review examined global self-concept.

### Global self-esteem measures

Out of the 20 studies, 16 examined global self-esteem by administering the RSES (Rosenberg, 1965, 1979, 1989). One study (Detrie & Lease, 2007) used the CSES (Luhtanen & Crocker, 1992) to assess global self-esteem. Out of the 20 studies, 3 (Vincke & van Heeringen, 2002; Blais et al, 2014; Wilkerson et al., 2017) did not assess global self-esteem.

### Measurement of social context

The studies included in this review looked at various aspects of social context, using a variety of measurement scales. These measurements were Experience Sampling Method (Csikszentmihalyi & Larson, 1987), Perceived Social Support—Family and Friends (Procidano & Heller, 1983), Social Connectedness Scale (Lee & Robbins, 1995), Measure of Gay-Related Stressors (Lewis, 2001), Support Network Survey (Berger, 1992), Center for Epidemiology Studies—Depression

Scale (Radloff, 1977), Religious Comfort and Strain Scale (Dahl & Galliher, 2010), Brief Multidimensional Measure of Religiosity/Spirituality (Fetzer Institute, 1999), Network of Relations Inventory (Furman, 1996), Brief Symptom Inventory (Derogatis & Spencer, 1982), Family Acceptance Scale (Ryan et al., 2009), Generalized Anxiety Disorder (Spitzer et al., 2006), Life Events Checklist (Johnson & McCutcheon, 1980), Diagnostic and Statistical Manual of Mental Disorders—3rd edition-Revised (APA-American Psychiatric Association, 1987), Social Obstruction Scale (Rosario et al., 2011), Marlowe-Crowne Social Desirability Scale (Crowne & Marlowe, 1964), Lesbian/Gay/Bisexual Identity Scale (Mohr & Fassinger, 2000), Multidimensional Scale of Perceived Social Support (Zimet et al., 1988), General Health Questionnaire (Goldberg, 1972), Beck Hopelessness Scale (Beck et al., 1974), Beck Depression Inventory (Beck, 1996), Index of Sexual Identity Disclosure (D'Augelli, 2002), Nungesser Homosexual Attitudes Inventory (Nungesser, 1983), Gay-Related Stressful Events (Rosario et al., 2002), Adolescent Disclosure Measure (Stattin & Kerr, 2000), Early Adolescent Role Strain Inventory (Fenzel, 1989a, 1989b, 2000), Mentor Behavior Rating Scale (de Bruyn, 2004), Identification with School Questionnaire (Voelkl, 1996a, 1996b), and Social Support Scale (Vincke & Bolton, 1996). The selection of the social context to be assessed in the individual studies was determined by the relevant research questions and by the nature of the sample used. The social context examined most often were family acceptance of sexual orientation, friends' attitudes, events related to victimization, participation in LGBT youth organizations, and mental health issues of the participants. It is apparent from the list outlined that the measurement of social context shows significant discrepancies, which sets obstacles to comparing the studies in relation to which areas of social context were measured and how.

### Summary of methodological characteristics

In summary, the assessment of social context and self-concept was done using various measurement scales. Despite having used the RSES (Rosenberg, 1965, 1979, 1989) to examine self-concept, all studies assessed social context with differing measurement scales. This produces methodological issues in the effort of comparing findings.

### Study findings

Table 3 represents a summary of the main findings of the chosen studies.

Conclusions and findings inferred from the studies on the links between self-concept and social context will be examined

here. It will be investigated whether the studies were able to establish a relationship between these two concepts. This will be performed in a qualitative manner and will not compare statistical findings.

### Relationship between self-concept and sexual identification

Findings of studies on the relationship between self-concept and sexual identification were contradictory. One study found that self-esteem has a significant negative correlation with sexual orientation conflict (Dahl & Galliher, 2010) and one study reported a positive correlation between self-esteem and sexual identification comfort (Hershberger & D'Augelli, 1995). In contrast, Savin-Williams (1989) found no association between self-esteem and sexual orientation comfort. In addition, one study found that although concealing one's identity in school was negatively correlated with self-esteem, being out in school showed no significant correlation with self-esteem (Russel et al., 2014). One study found that same-sex attraction was negatively correlated with self-esteem (Bos et al., 2008). One study showed slightly higher self-esteem scores for lesbian youth than for gay youth (Savin-Williams, 1989). Contrastingly, two studies presented finding no significant differences between self-esteem and sexual orientation (Grossman & Kerner, 1998; Bauermeister et al., 2010). Additionally, two studies found that self-esteem was positively correlated with LGBT-esteem and LGBQ (lesbian, gay, bisexual, questioning) identity salience (Snapp et al., 2015; Woodford et al., 2015). Out of 20 studies, 11 did not examine the relationship between self-concept and sexual identification measures.

### Relationship between social context and self-concept

Out of 20 studies, 9 found a strong positive association between social context relating to family and friends—that displays as social support from family and friends, social acceptance, and social connectedness—and self-esteem (Savin-Williams, 1989; Snapp et al., 2015; Rosario et al., 2005; Wilkerson et al., 2017; Vincke & van Heeringen, 2002; Bauermeister et al., 2010; Rosario et al., 2011; Bos et al., 2008). In contrast, whereas one study (Detrie & Lease, 2007) found a strong positive correlation between social support from friends and self-esteem, they reported finding no correlation between social support from family and self-esteem. Two studies reported a positive association between social desirability and self-esteem (Rosario et al., 2005; Rosario et al., 2011). Another study revealed a positive correlation between family relations and self-esteem (Hershberger & D'Augelli, 1995), but no significant correlation between family protection and self-esteem, or between family

Table 3. Findings of studies

#	Author (Year)	Self-Concept vs. Sexual Identification	Social Context vs. Self-Concept	Social Context vs. Sexual Identification
1	Detrie & Lease (2007)		Positive correlation between social support from friends and self-esteem ( $r=0.68$ , $p<0.001$ ) No correlation between social support from family and self-esteem ( $r=0.01$ ) Positive correlation between social connectedness and self-esteem ( $r=0.30$ , $p<0.001$ ) Collective self-esteem positively related to self-acceptance ( $r=0.38$ , $p<0.001$ ) Self-esteem positively related to social support from family ( $r=0.41$ , $p<0.001$ ) Self-esteem positively related to social support from friends ( $r=0.41$ , $p<0.001$ )	
2	Dahl & Galliher (2010)	Self-esteem negatively correlated with sexual orientation conflict ( $r=-0.399$ , $p<0.01$ )	Self-esteem positively correlated with positive God ( $r=0.254$ , $p<0.01$ ) and with positive faith ( $r=0.195$ , $p<0.05$ ) Self-esteem negatively correlated with negative God ( $r=-0.366$ , $p<0.01$ ) and with fear and guilt ( $r=-0.404$ , $p<0.01$ )	Positive correlation between sexual orientation conflict, and negative God ( $r=0.240$ , $p<0.01$ ) and fear and guilt ( $r=0.370$ , $p<0.05$ )
3	Grossman & Kerner (1998)	No significant differences between self-esteem scores for gay males ( $M=19.7576$ , $n=58$ , $SD=4.92$ ) and lesbians ( $M=19.00$ , $n=32$ , $SD=5.83$ )	Higher self-esteem is a moderately strong predictor of lower emotional distress in gay males ( $R=0.26$ , $F_{(2,53)}=9.36$ , $p<0.001$ ) and a strong predictor in lesbians ( $R=0.51$ , $F_{(2,29)}=14.85$ , $p<0.001$ )	No significant differences in satisfaction with support scores between gay males ( $M=3.69$ , $n=58$ , $SD=0.53$ ) and lesbians ( $M=3.66$ , $n=32$ , $SD=0.57$ ) No significant differences in emotional distress scores between gay males ( $M=1.17$ , $n=58$ , $SD=0.75$ ) and lesbians ( $M=1.23$ , $n=32$ , $SD=0.79$ )
4	Ioverno et al. (2016)		GSA presence leads to no changes in self-esteem from $T_1$ ( $M=21.14$ , $n=327$ , $SD=5.64$ ) to $T_2$ ( $M=20.72$ , $n=327$ , $SD=5.34$ )	N/A
5	Poteat et al. (2015)	N/A	Victimization negatively correlated with self-esteem ( $r=-0.18$ , $p<0.05$ ) Higher perception of support from GSA predicted higher scores on self-esteem ( $\beta=0.12$ , $p<0.05$ )	N/A
6	Hershberger & D'Augelli (1995)	Self-esteem positively correlated with sexual identification comfort ( $r=0.33$ , $p<0.05$ )	Self-esteem positively correlated with family relations ( $r=0.11$ , $p<0.05$ ) Self-esteem showed no significant correlation with family acceptance ( $r=0.03$ ), or with family protection ( $r=-0.01$ ) Self-esteem negatively correlated with mental health problems ( $r=-0.46$ , $p<0.05$ )	Sexual identification comfort positively correlated with family acceptance ( $r=0.18$ , $p<0.05$ ), with family protection ( $r=0.21$ , $p<0.05$ ), and with family relations ( $r=0.44$ , $p<0.05$ )
7	Savin-Williams (1989)	Self-esteem scores slightly higher for lesbians ( $M=22.18$ ) than for gay males ( $M=21.98$ ) Self-esteem shows no association with sexual orientation comfort	Self-esteem shows no association with parental acceptance, contact with parents, relationship with father, or marital status of parents Lesbians' self-esteem shows significant correlation with mother's age ( $r=-0.23$ , $p<0.02$ ) and satisfaction with relationship with mother ( $r=-0.26$ , $p<0.01$ ) Gay males' self-esteem shows significant correlation with being out to their mother ( $r=-0.15$ , $p<0.03$ ) and with satisfaction with mother ( $r=-0.22$ , $p<0.003$ ) and with father ( $r=-0.22$ , $p<0.002$ )	Lesbians scored higher ( $M=2.71$ ) than gay males ( $M=2.41$ ) on being out to their father Lesbians and gay males scored similar ( $M=2.14$ and $M=2.15$ , respectively) on being out to their mother

Continued Table 3. Findings of studies

#	Author (Year)	Self-Concept vs. Sexual Identification	Social Context vs. Self-Concept	Social Context vs. Sexual Identification
8	Snapp et al. (2015)	Self-esteem positively correlated with LGBT-esteem ( $r=0.41, p<0.05$ )	Self-esteem positively correlated with support from friends about being LGBT ( $r=0.19, p<0.05$ ) Self-esteem positively correlated with the availability of LGBT books and magazines ( $r=0.16, p<0.05$ ) Family acceptance predicted self-esteem ( $\beta=0.38, p<0.001$ ) Support from friends about being LGBT predicted self-esteem ( $\beta=0.15, p<0.05$ )	Being out to friends positively correlated with LGBT-esteem ( $r=0.20, p<0.05$ ) Support from friends about being LGBT positively correlated with LGBT-esteem ( $r=0.19, p<0.05$ ) Being out to family, friends, and others predicted LGBT-esteem ( $\beta=0.31, p<0.001$ ) Family Acceptance predicted LGBT-Esteem ( $\beta=.36, p<.001$ ).
9	Woodford et al. (2015)	LGBQ identity salience positively correlated with self-esteem ( $r=0.17, p<0.05$ )	Self-esteem negatively correlated with anxiety ( $r=-0.55, p<0.001$ ) Self-esteem negatively correlated with perceived stress ( $r=-0.71, p<0.001$ )	Relationship recognition is negatively correlated with LGBQ identity salience ( $r=-0.15, p<0.05$ ) Distal environmental microaggressions were positively correlated with LGBQ identity salience ( $r=0.30, p<0.001$ )
10	Rotheram-Borus et al. (1995)	N/A	Self-esteem positively but not significantly correlated with gay-related stressors ( $r=0.15, p<0.05$ ), with academic stressors ( $r=0.03, p<0.05$ ), with other life stressors ( $r=0.15, p<0.05$ ), or with emotional distress ( $r=0.11, p<0.05$ )	N/A
11	D'Augelli & Hershberger (1993)	N/A	Self-esteem negatively correlated with mental health issues ( $r=-0.44, p<0.01$ ) Self-esteem negatively correlated with depression ( $r=-0.49, p<0.01$ ) Self-esteem negatively correlated with interpersonal sensitivity ( $r=-0.41, p<0.01$ )	N/A
12	Russel et al. (2014)	Self-esteem negatively correlated with hiding at school ( $r=-0.21, p<0.001$ ) Self-esteem showed no significant correlation with being out in school ( $r=0.10$ )	Self-esteem negatively correlated with LGBT victimization ( $r=-0.24, p<0.05$ ) Self-esteem negatively correlated with depression ( $r=-0.47, p<0.001$ ) Self-esteem positively correlated with life satisfaction ( $r=0.34, p<0.001$ )	Hiding at school was positively correlated with LGBT victimization ( $r=0.14, p<0.05$ ) Hiding at school positively correlated with depression ( $r=0.24, p<0.001$ ) Hiding at school negatively correlated with life satisfaction ( $r=-0.14, p<0.05$ ) Being out at school positively correlated with LGBT victimization ( $r=0.29, p<0.001$ ) Being out at school negatively correlated with depression ( $r=-0.22, p<0.001$ ) Being out at school positively correlated with life satisfaction ( $r=0.16, p<0.05$ )



Continued Table 3. Findings of studies

#	Author (Year)	Self-Concept vs. Sexual Identification	Social Context vs. Self-Concept	Social Context vs. Sexual Identification
13	Rosario et al. (2005)	N/A	<p><i>At baseline:</i>                      Self-esteem negatively correlated with depression (<math>r=-0.62, p&lt;0.05</math>), with anxiety (<math>r=-0.35, p&lt;0.05</math>), and with conduct problems (<math>r=-0.16, p&lt;0.05</math>)                      Self-esteem positively correlated with social support from family (<math>r=0.27, p&lt;0.05</math>) and friends (<math>r=0.28, p&lt;0.05</math>), and with social desirability (<math>r=0.25, p&lt;0.05</math>)                      Self-esteem negatively correlated with negative social relationships (<math>r=-0.44, p&lt;0.05</math>)</p> <p><i>At 6-month assessment:</i>                      Self-esteem negatively correlated with depression (<math>r=-0.54, p&lt;0.05</math>) and with anxiety (<math>r=-0.28, p&lt;0.05</math>). Correlation between self-esteem and conduct problems was negative but not significant (<math>r=-0.10</math>)</p> <p><i>At 12-month assessment:</i>                      Self-esteem negatively correlated with depression (<math>r=-0.37, p&lt;0.05</math>) and with anxiety (<math>r=-0.23, p&lt;0.05</math>). Correlation between self-esteem and conduct problems was negative but not significant (<math>r=-0.02</math>)</p>	N/A
14	Blais et al. (2014)	N/A	<p>Self-esteem negatively correlated with homophobic bullying (<math>r=-0.171, p&lt;0.05</math>)                      Self-esteem negatively correlated with internalized homophobia (<math>r=-0.171, p&lt;0.05</math>)                      Internalized homophobia positively correlated with homophobic bullying (<math>r=0.388, p&lt;0.05</math>)                      Relationship between self-esteem and homophobic bullying mediated by internalized homophobia</p>	N/A
15	Wilkerson et al. (2017)	N/A	<p>Increased social support associated with increased self-esteem (<math>\beta=-0.72, p&lt;0.05</math>)                      Hatch Youth attendance was associated with increasing self-esteem (<math>T_1: \beta=0.08, p&lt;0.05; T_2: \beta=0.30, p&lt;0.05</math>)</p>	N/A
16	Vincke & van Heeringen (2002)	N/A	<p>Self-esteem positively correlated with parents' awareness of sexual orientation at <math>T_1</math> and <math>T_2</math>, but these correlations are not significant (<math>r=0.09</math> and <math>r=0.09</math>, respectively)                      Self-esteem negatively correlated with parent acceptance at <math>T_1</math> (<math>r=-0.03</math>) and positively correlated at <math>T_2</math> (<math>r=0.08</math>), but these correlations are not significant                      Self-esteem positively correlated with satisfaction with lesbian/gay friendship relations at <math>T_1</math> (<math>r=0.20, p&lt;0.05</math>) and at <math>T_2</math> (<math>r=0.26, p&lt;0.05</math>)                      Self-esteem positively correlated with confidant support at <math>T_1</math> (<math>r=0.41, p&lt;0.05</math>) and at <math>T_2</math> (<math>r=0.41, p&lt;0.05</math>)</p>	N/A

Continued Table 3. Findings of studies

#	Author (Year)	Self-Concept vs. Sexual Identification	Social Context vs. Self-Concept	Social Context vs. Sexual Identification
17	Bauermeister et al. (2010)	Self-esteem was not associated with Kinsey Scale scores	<i>Males:</i> Self-esteem at T <sub>2</sub> positively associated with self-esteem at T <sub>1</sub> ( $\beta=0.47, p<0.001$ ), with number of friends aware of sexual identity at T <sub>2</sub> ( $\beta=0.15, p<0.05$ ), and with social support at T <sub>2</sub> ( $\beta=0.17, p<0.05$ ) <i>Females:</i> Self-esteem at T <sub>2</sub> positively associated with self-esteem at T <sub>1</sub> ( $\beta=0.63, p<0.001$ ) and with social support T <sub>2</sub> ( $\beta=0.20, p<0.01$ )	N/A
18	Rosario et al. (2011)		Self-esteem positively associated with social desirability ( $r=0.28, p<0.05$ ) Self-esteem was positively associated with family support ( $r=0.26, p<0.05$ ) Self-esteem negatively associated with negative social relationships ( $r=-0.36, p<0.05$ ) Highly integrated youth reported higher self-esteem	Highly integrated youth reported less anxiety and depression, and fewer conduct problems
19	Bos et al. (2008)	Sexual attraction negatively correlated with self-esteem ( $r=-0.14, p<0.001$ )	Self-esteem positively correlated with disclosure to father ( $r=0.26, p<0.001$ ), with disclosure to mother ( $r=0.18, p<0.001$ ), with social acceptance ( $r=0.38, p<0.001$ ), and with respect from mentor ( $r=0.15, p<0.001$ )  Self-esteem negatively correlated with peer role strain ( $r=-0.21, p<0.001$ ), and with depression ( $r=-0.66, p<0.001$ )	Sexual attraction negatively correlated with disclosure to father ( $r=-0.10, p<0.01$ ), with social acceptance ( $r=-0.09, p<0.01$ ), with respect from mentor ( $r=-0.09, p<0.01$ ), and with school identification ( $r=-0.09, p<0.01$ ) Sexual attraction negatively correlated with disclosure to mother, but correlation was not significant ( $r=-0.04$ ) Sexual attraction positively correlated with peer role strain ( $r=0.10, p<0.01$ ) and with depression ( $r=0.26, p<0.001$ )
20	Toomey et al. (2011)		Self-esteem positively associated with GSA presence ( $r=0.12, p<0.01$ ) Self-esteem showed no significant association with GSA participation ( $r=0.06$ ) or with perceived GSA effectiveness ( $r=0.05$ )	

GSA, gay straight alliance.

acceptance and self-esteem. Furthermore, two studies (Rosario et al., 2005; Rosario et al., 2011) found a negative correlation between negative social relationships and self-esteem.

In relation to the religious context, one study reported a strong positive association between the experience of positive faith and positive God experience, and self-esteem (Dahl & Galliher, 2010). This study also found a negative association between fear and guilt of religious consequences and a negative God experience, and self-esteem. Additionally, their findings indicated that negative religious experiences have a deeper impact on the mental health of sexual minorities than do positive religious experiences.

With regard to the social setting within the community, two studies (Snapp et al., 2015; Wilkerson et al., 2017) found that availability of LGBT resources—for instance, books, magazines and youth groups (such as Hatch Youth) —was positively correlated with self-esteem. One study (Rotheram-Borus et al., 1995) presented a negative but not significant correlation between other life stressors (including but not exclusive to the domains of family, self, peers, health, and moving from place to place) and self-esteem.

Additionally, regarding school context, two studies (Toomey et al., 2011; Poteat et al., 2015) found that GSA presence and being out to peers was associated with higher self-esteem. Contrastingly, one study (Ioverno et al., 2016) showed that

GSA presence led to no changes in self-esteem scores over time. Similarly, another study (Toomey et al., 2011) reported no significant association between self-esteem, and GSA participation or perceived GSA effectiveness. Three studies (Rotheram-Borus et al., 1995; Blais et al., 2014; Poteat et al., 2015) found that stressors in the school environment—such as gay-related stressors, academic stressors, victimization and homophobic bullying—were negatively correlated with self-esteem, as well as with internalized homophobia. Moreover, one study (Bos et al., 2008) showed a negative association between peer role strain and self-esteem.

Furthermore, five studies (D'Augelli & Hershberger, 1993; Hershberger & D'Augelli, 1995; Rosario et al., 2005; Bos et al., 2008; Woodford et al., 2015) found significant negative correlations between mental health issues—manifesting in forms of depression, anxiety, conduct problems, interpersonal sensitivity, perceived stress, and general mental health—and self-esteem. Although one study (Rosario et al., 2005) found longitudinal associations between depression and anxiety, and self-esteem, they revealed no statistically significant correlation between conduct problems and self-esteem over time.

### Relationship between social context and sexual identification

Eleven out of 20 studies did not assess the relationship between social context and sexual identification measures. All nine studies that did examine this relationship agree that a negative social context would presumably promote problems with one's sexual identification.

From a religious perspective, one study found a positive correlation between sexual orientation conflict and a negative God experience, as well as between sexual orientation conflict and fear and guilt (Dahl & Galliher, 2010).

One study (Hershberger & D'Augelli, 1995) reported that sexual identification comfort was positively correlated with family acceptance, family protection, and family relations. Similarly, being out at school positively correlated with life satisfaction, and negatively correlated with depression (Russel et al., 2014). The same study also found that hiding one's sexual orientation at school was positively correlated with depression and negatively correlated with life satisfaction. Interestingly, the study also reported that both hiding one's sexuality in school and being out were positively correlated with LGBT victimization. Comparable findings were demonstrated by another study (Snapp et al., 2015), suggesting that being out and identifying as having same-sex attraction, rather than concealing one's sexual identity, was positively correlated with LGBT-esteem.

Although one study reported that specific sexual orientation meant no differences in scores for satisfaction with support or for emotional distress (Grossman & Kerner, 1998), another study (Bos et al., 2008) found that same-sex attraction was indeed positively correlated with peer role strain and depression. They also found that same-sex attraction showed a negative correlation with social acceptance, school identification, and disclosure of one's sexual identification to parents, all of which may lead to heightened levels of emotional distress.

### DISCUSSION

The present paper provides a systematic review of the currently existing literature assessing the impact social context may have on the self-concept of gay and lesbian youth.

The aim was to investigate the links between social context and self-concept in gay and lesbian youth and to examine potential methodological threats in the literature. It was predicted that the reviewed literature would present methodological inconsistencies. As anticipated, results of the quality assessment implied reporting heterogeneity, in both study quality and reporting quality, within the literature on the self-concept of gay and lesbian youth. In relation to research, synthesis of study findings revealed that participant sampling and study design can often fundamentally influence the type of insight one might gain into the processes and mechanisms underlying the development of self-concept in gay and lesbian youth under the influence the social context they function in. As far as research is concerned, comparison of study findings demonstrated that most researchers appeared to have disregarded the various subgroups within a nonheterosexual orientation, and attempted to draw conclusions regarding sexual minority youth as a homogeneous group, still only focusing on self-esteem as a single domain within self-concept.

It was also predicted that a more positive social context would be associated with a more positive self-concept. The review revealed that previous studies investigated four main types of social context: school, friends and family, community, and religion, all of which were examined separately. With reference to self-concept, the studies included in the review mostly focused on one individual domain, instead of assessing self-concept as a global dimension. Most of the papers examined self-esteem; evidence from findings indicates that it may be lower in gay and lesbian youth than in their heterosexual peers (Garofalo et al., 1998); however, it can also reach considerably higher levels when an optimal and positive social context is available (Detrie & Lease, 2007; Rosario et al., 2011; Snapp et al., 2015; Wilkerson et al., 2017). Contrastingly, self-esteem might also significantly decrease through youth's interaction with

a negative social environment where negative stereotyping is associated with being a gay male or a lesbian (D'Augelli & Hershberger, 1993; Vincke & van Heeringen, 2002; Bos et al., 2008; Woodford et al., 2015). These interactions, which are often infused with negative attributions and attitudes by others, can lead to sexual identity confusion and low self-esteem, essentially hindering the development of a healthy and positive self-concept (Garofalo et al., 1998). Hence, the findings of the present review support Higgins' (1987) self-discrepancy theory, underpinning the notion that by reaching a balance between their sexual identities and social expectations, gay and lesbian youth may achieve an optimal position that allows for a positive self-concept development by diminishing fear, shame, guilt, and rejection resulting from belonging to a sexual minority group.

Another aim of the current review was to examine whether highlighting the importance of social context would benefit intervention and support services, and families raising gay or lesbian youth. Comparing findings from the studies in relation to social context (either school, family and friends, community, or religion) uncovers that the more understanding and accepting gay and lesbian youth's environment is, the more likely it is that youth will develop a healthy self-concept—that fully integrates their differing sexual orientation and identity—through an easier path (Hershberger & D'Augelli, 1995; Bauermeister et al., 2010; Snapp et al., 2015). Nevertheless, it is necessary to acknowledge that although attitudes of the immediate social environment should be positive in order to aid self-concept development, not all members of the social context will have positive attributions toward alternative sexual orientations. As a result, communications and mediations regarding full integration of gay and lesbian youth need to be managed with realistic expectations in mind.

### Limitations of the present review

Review and assessment of the included studies found several problems when progressing onto integrating findings from existing research. These mostly involved methodological issues and disparities.

Although overall attrition rates in the studies were not very high, looking at the detailed list it is observable that the highest rates occurred in the studies applying a longitudinal design. This essentially defies the purpose of a longitudinal design, and possibly leads to distorted results. In addition, most samples used were recruited from convenience populations, such as geographically limited, mostly urban high school and university areas, associations for nonheterosexual youth,

as well as through snowball sampling. These population targets represent an issue with external validity because of the nonrepresentative nature of the samples, leading to unattainability in extrapolating study findings to the general population of nonheterosexual youth.

As pointed out earlier in the present review, social context is multifaceted, involving positive or negative attributions of others, social resources, and actual and perceived social support and attitudes from sources such as family, friends, school, community, or religious settings. Attitudes and available resources can fundamentally shape self-concept. Nevertheless, not all individuals experience the same environment the same way. Hence, mediating and moderating variables may and should be considered when examining self-concept in a social context in relation to gay and lesbian youth.

The mechanism that makes positive social contacts useful is often not clear. Also, the definition and measurement of social support and perceived social support varies across studies. The lack of a solid definition makes synthesizing findings of the studies difficult and the relationship of social support with self-concept inconclusive.

It was pinpointed earlier that the definition of self-concept occurred inconsistently throughout the literature. Additionally, the measurement of both self-concept and social context showed discrepancies across the studies included in this review. Although the measurement scales used to assess self-concept overlapped in the studies, most still only examined a single domain of self-concept. With the exception of two studies (Bos et al., 2008; Blais et al., 2014)—that examined self-perception in addition to self-esteem—all papers focused on only one domain of self-concept. Moreover, the measurement scales used to examine social context and sexual orientation were different in almost all the studies. Regarding social context, only one study (Dahl & Galliher, 2010) explored the impact of a religious context; all other studies assessed the significance of the close social environment, such as family, friends, and peers, and that of the wider social context, such as school and community. This incongruence and lack of agreement on the choice of assessment instruments hinders making conclusive, direct comparisons between studies.

Whereas the problem with coherence of measurement of social context and self-concept is evident from the results of this review, this issue also occurs in relation to sexual identification. The concept of sexual minority lacks an

adequate definition, which can be noted among the reviewed studies. Many of the papers discussed sexual orientation as a term interchangeable with the term “homosexual,” without accounting for specific subgroups and their possible variance in their relations to social context and self-concept.

In addition to issues with comparing study findings, the present review is also limited by using only one rater to assess the quality of papers. Bias could be decreased and interrater reliability could be established by employing a second rater in assessing methodological quality of the included studies.

Focusing only on gay and lesbian youth may have also limited the findings of this review.

### Implications for research

Future research could possibly explore a wider range of samples, such as with equal representation of urban and rural youth from a representative sample of the general public, as well as by conducting large-scale, international, longitudinal studies, preferably with the inclusion of heterosexual control samples. Also, combining findings from cross-cultural samples would enrich the insight into the link between social context and self-concept in relation to gay and lesbian youth and could also improve the external validity and generalizability of research findings. In addition, assessing all domains of self-concept, rather than self-esteem only, might be beneficial in gaining a more cohesive view of its development path in gay and lesbian youth.

Moreover, including variables such as socioeconomic status, ethnicity, and religious affiliation would allow a more complex assessment of the mediating and moderating effect of social context variables. These attempts would enable a robust basis for making reliable comparisons between studies and allow for effectively synthesizing results. It would also permit for a more thorough analysis of findings, for drawing solid conclusions about the relationships between social context and self-concept, and for assessing their relations in a comparison between heterosexual and nonheterosexual youth.

The present review suggests that future research could aim to create and validate a composite measure for the three concepts separately (sexual identification, social context, self-concept), for which currently available validated measurement scales would serve as a basis. This would also further the possibility of making adequate comparisons between research studies in the examined field of literature.

Also, when examining the impact of social context on the self-concept of gay and lesbian youth, there is a strong need for extensive longitudinal research in order to establish the relationships between concepts over time and to identify the underlying mechanisms through which the interaction of these concepts influences the development of a healthy and positive self-concept.

In addition, future research could examine the relationships between social context and self-concept in gay and lesbian youth with the use of qualitative study designs. This method would allow a richer understanding of youth's subjective experiences. Similarly, qualitative studies could further explore the subjective experiences of those living in gay and lesbian youth's social environment, such as family, friends, peers, or teachers. Such studies might grant insight into findings that could serve as a basis for more solid and comprehensive intervention programs to aid the healthy self-concept development in gay and lesbian youth and to facilitate the evolution of a more tolerant and inclusive social structure.

### Implications for practice

Review of the literature indicates that when the social context is positive and nurturing, there is a higher possibility for a healthy self-concept development in gay and lesbian youth. This is in line with the proposed idea of social context theory (Earle & Earle, 1999) and suggests that social context has a vast impact and must be examined in relation to gay and lesbian youth's self-concept.

It is a clear finding of this review that the close social environment, such as family and friends are also affected by youth's sexual identification and, depending on their attitudes and perceptions, can have a positive buffering effect on youth's resilience resources, or can act as stressors and pose a negative impact. Hence, unhindered and fruitful communication between youth, family, and friends is essential in creating an easier path for gay and lesbian youth to develop a healthy self-concept.

Findings of this review on the negative relationship between mental health issues and self-concept clearly point to the need for effective psychological interventions for gay and lesbian youth. Decreasing the extent of negative social relationships is paramount in reducing emotional distress, and interventions aiming to help gay and lesbian youth must identify these relationships in order to be able to tailor their services to individual needs. Gay and lesbian youth are often treated as a homogeneous group with regard to their issues, and when it comes to their sexual identification, and when the concern

is the revealing or concealing of their sexual orientations to their social environment.

It is suggested that therapy session may be of use, including both youth and their parents, if the source of negativity is the parents, with a goal to resolve differences and achieve mutual understanding of emotions, needs, and expectations. It is also important that alongside identifying positive resources for youth to lean on, they also learn positive coping mechanisms to deal with difficult situations, with the loss of friends as a result of coming out, and to handle other negative peer feedbacks. Moreover, if the negative social relationships stem more from peers, it is suggested that gay and lesbian youth seek complementary peer relationships in the form of participation in gay- and lesbian-focused organizations. Higher self-esteem, which may hopefully be gained through these positive sources, may assist youth in their coming out process and consequently in becoming more integrated with their sexual identities.

Additionally, the review of literature indicates that whereas GSA presence in schools may have a slight positive impact on gay and lesbian youth's self-esteem, its presence might not, in itself, be enough of a positive social context measure to sufficiently support healthy self-concept development. It may be necessary for schools to implement specific policies and procedures (such as teacher training or curriculum inclusive of sexual minority issues) in relation to sexual orientation of students who are not exclusively heterosexual. Therefore, schools' support to GSA is fundamental as a starting point for creating a safer and more inclusive environment and for providing further education about LGBTQ (lesbian, gay, bisexual, transgender, questioning) issues to heterosexual peers.

As the findings of this review suggest that in most cases increased social support is associated with enhanced levels of self-esteem, which facilitates the development of a balanced self-concept, school psychologists and counselors, as well as GSAs, may plan to work together in working with sexual minority youth to increase their self-esteem as part of the process of achieving a positive and balanced self-concept. Moving outside of youth's personal social environment and examining the elements of the wider social context (heterosexism, noninclusive social policies, covert aggression through media, and negative community attitudes toward sexual minorities) is necessary in creating exhaustive policies, practices, and interventions. Also, intervention should include long-term follow-up, as homophobic bullying and victimization can have long-lasting negative effects, not only

on self-concept, but generally on mental health and physical and emotional well-being of gay and lesbian youth.

In conclusion, the present review suggests that social context has a substantial impact on the self-esteem and on the self-perceptions of gay and lesbian youth. It also seems to influence the way they perceive others, and others' attributions and attitudes toward themselves. Even though the inconsistency of the measurement scales and other assessment tools used across the existing literature makes it problematic to produce a cohesive synthesis of study findings, it is evident from each individual study that social context in some way has a significant impact on self-concept. This provides important implications about the need for collaboration between gay and lesbian youth, their families and friends, schools, GSAs, community contexts, policy makers, and service providers, in designing and implementing positive social resources with the aim to facilitate healthy self-concept development in gay and lesbian youth. This cooperation is crucial, because addressing only the proximal social context may not yield thorough and satisfactory results.

## ACKNOWLEDGEMENTS

No acknowledgements.

## ETHICAL APPROVAL

As no new data were collected for this study (systematic review), no ethical approval was necessary.

## INFORMED CONSENT

As no new data were collected for this study (systematic review), no informed consent was required.

## CONFLICTS OF INTEREST

The authors declare no conflict of interest in conducting this review.

## FUNDING

This review did not receive any specific grant from funding agencies in the public, commercial, or not-for-profit sectors.

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