

Degrading and Non-Degrading Sex in Popular Music: A Content Analysis

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SYNOPSIS

Objectives. Those exposed to more degrading sexual references in popular music are more likely to initiate intercourse at a younger age. The purpose of this study was to perform a content analysis of contemporary popular music with particular attention paid to the prevalence of degrading and non-degrading sexual references. We also aimed to determine if sexual references of each subtype were associated with other song characteristics and/or content.

Methods. We used *Billboard* magazine to identify the top popular songs in 2005. Two independent coders each analyzed all of these songs ($n=279$) for degrading and non-degrading sexual references. As measured with Cohen's kappa scores, inter-rater agreement on degrading vs. non-degrading sex was substantial. Mentions of substance use, violence, and weapon carrying were also coded.

Results. Of the 279 songs identified, 103 (36.9%) contained references to sexual activity. Songs with references to degrading sex were more common than songs with references to non-degrading sex (67 [65.0%] vs. 36 [35.0%], $p<0.001$). Songs with degrading sex were most commonly Rap (64.2%), whereas songs with non-degrading sex were most likely Country (44.5%) or Rhythm & Blues/Hip-Hop (27.8%). Compared with songs that had no mention of sexual activity, songs with degrading sex were more likely to contain references to substance use, violence, and weapon carrying. Songs with non-degrading sex were no more likely to mention these other risk behaviors.

Conclusions. References to sexual activity are common in popular music, and degrading sexual references are more prevalent than non-degrading references. References to degrading sex also frequently appear with references to other risky behaviors.

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During a period when adolescents are forming health attitudes and behaviors that last a lifetime, they are exposed to an enormous amount of electronic media, much of which contains messages relevant to health behaviors. Music now accounts for more than a third of this exposure: on average, adolescents listen to 2.4 hours of music per day, or more than 16 hours per week. There are few limits to youths' access to music: 98% of children and adolescents live in homes with both radios and CD/MP3 players, and 86% of 8- to 18-year-olds have CD/MP3 players in their bedrooms.¹ These figures have increased substantially over the past decade.^{1,2}

Current popular music contains more references to sexual activity than any other entertainment medium.³ There is strong theoretical support for the supposition that exposure to such media may lead to early sexual activity.^{4,5} According to the social learning model, people learn not only by direct experience but also by exposure to modeled and rewarded behavior, such as that represented in popular music.⁶⁻⁸ Music is well known to connect deeply with adolescents and to influence identity development, perhaps more so than any other entertainment medium.^{4,9-11} Early sexual intercourse and early progression of other sexual behaviors are of concern because of their direct relationship with sexually transmitted infections¹²⁻¹⁵ and costly, unwanted teenage pregnancies.¹⁵⁻¹⁷

Not all sexual content in music is equivalent. One prominent theme represented in media portrayals of sex, described as "degrading sex,"¹⁸ involves three particular attributes: (1) one person (usually male) has a seemingly insatiable sexual appetite, (2) the other person (usually female) is objectified, and (3) sexual value is placed solely on physical characteristics.¹⁸⁻²¹ According to the social learning model, these references in particular may promote early sexual activity. This is because they may encourage youth to play out these roles (sex-driven male and acquiescent female) rather than resolve their true desires and anxieties surrounding sexual activity.^{5,18} Longitudinal data show that those exposed to more degrading sexual references in popular music are in fact more likely to initiate intercourse at a younger age.^{4,18}

However, to date there has been no systematic content analysis of popular music with special attention paid to degrading sexual references. If indeed these references are associated with early sex, it is important to learn their relative frequency. Furthermore, it is not currently known whether songs with degrading sexual references are more likely to be associated with other characteristics. If, for instance, degrading sexual references are more common in certain musical

genres, this might have implications for targeting of prevention programs. Similarly, it would be instructive to know if songs with degrading sexual references also feature other content related to risk-taking behavior and other public health concerns (i.e., substance use and violence).

The purpose of this study was to perform a content analysis of contemporary popular music with particular attention paid to the prevalence of degrading and non-degrading sexual references. Additionally, we aimed to determine if sexual references of each subtype were associated with other song characteristics (i.e., genre and singer gender) and/or other song content (i.e., violence, weapon carrying, and substance use). We hypothesized that songs with degrading sexual references would be common, but that songs with references to non-degrading sex would be more common. We further hypothesized that all sexual references—both degrading and non-degrading—would be more likely to be associated with male singers, with particular genres, and with other sensation-seeking content such as violence and substance use.

METHODS

Song selection

We used *Billboard* magazine to identify the most popular songs in the U.S. in 2005.²² *Billboard* annually uses a complex algorithm, integrating data from both sales and airplay to determine the top songs according to exposure. Sales data for this algorithm are compiled by Nielsen SoundScan from merchants representing more than 90% of the U.S. music market, including sales from music stores, direct-to-consumer transactions, and Internet sales and downloads. *Billboard's* airplay data utilize Nielsen Broadcast Data Systems, which electronically monitors radio stations in more than 120 representative markets across the U.S. Integrating these data, *Billboard* reported the following youth-relevant lists of popular song titles in 2005: Pop 100 ($n=100$), *Billboard* Hot 100 ($n=100$), Hot Country Tracks ($n=60$), Hot Rhythm & Blues (R&B)/Hip-Hop Songs ($n=100$), Hot Rap Tracks ($n=25$), Mainstream Rock Tracks ($n=40$), and Modern Rock Tracks ($n=40$).

Billboard's year-end charts are closed out, meaning that they do not change based on date of access. Taken together, the song titles from the seven charts represent a comprehensive list of popular contemporary music to which young Americans listen. Because some songs were included on more than one chart, the seven charts of 465 song titles included 279 unique songs, which comprised the sample for this study.

Coding procedures

Two trained initial coders independently analyzed the printed lyrics of each song for references to sexual intercourse, violence, and substance use. Codes were assigned on the basis of lyrics alone. We computed Cohen's kappa statistics²³ for agreement on each of these measures and judged these values according to the Landis and Koch framework.²⁴ After this initial coding, we employed two new confirmatory coders to independently code each of the items on which the previous coders did not agree (new coders were blinded to prior codes). When the confirmatory coders both agreed with one of the original codes, that code was supported. However, when the confirmatory coders disagreed with each other or agreed with each other but not with one of the initial coders, the item was discussed by the complete research team to achieve a consensus. Using this algorithm, consensus was easily achieved for all scores.

Measures

Sexual activity. For the outcome variable indicating a reference to sexual activity, our coders assigned two possible values for each song (0 = no sexual activity, 1 = sexual activity). A song was given the value 1 if sexual intercourse was either obvious or strongly implied. For the purposes of this analysis, "sexual intercourse" was defined as penile-vaginal sex, penile-anal sex, or oral sex. A separate variable was used by each coder to classify each song with sexual activity as either degrading or non-degrading. Degrading sexual intercourse was defined as sex that met all three of the following criteria: (1) one person has a large sexual appetite, (2) the other person is objectified, and (3) sexual value is placed solely on physical characteristics. The Figure has examples of degrading and non-degrading sexual references.

According to the Landis and Koch framework²⁴ for kappa values, initial coders had moderate agreement on sexual intercourse ($\kappa=0.46$) and substantial agreement on degrading vs. non-degrading sexual intercourse scores ($\kappa=0.71$). After adjudication, coders agreed on all final codes.

Song characteristics: gender and genre. We determined the gender of the lead singer(s) by examining the CD jacket, viewing relevant websites, and/or listening to the songs. Coders agreed on all gender determinations. Of the 279 songs, 213 were sung by males, 58 by females, and eight by a mixture of males and females.

We used the following standardized approach to uniquely assign one primary genre to each song. First, we used *Billboard's* website to determine each song's

highest position at anytime on each of the *Billboard* charts we analyzed. Each song was assigned as a primary genre the genre of the specialty chart (i.e., R&B/Hip-Hop, Rap, Rock, or Country) on which it ranked highest, regardless of each song's ranking on the Pop and Hot charts. This was necessary to avoid misclassifying certain highly popular songs. For instance, the singer 50 Cent is an example of someone who is clearly a rap artist. Although some of his songs are very popular and may even fall higher on the Pop chart than the Rap chart, it would be a mistake to classify these songs as Pop, especially alongside true Pop songs such as "Because of You" by Kelly Clarkson. Thus, only songs that never reached any specialty chart but did reach the Pop and/or Hot charts were defined as Pop. We combined the Modern Rock and Mainstream Rock categories into one Rock category because the line between these charts has become less distinct over the past two decades. Using this approach, each song was clearly and uniquely defined as Country ($n=61$), Pop ($n=35$), R&B/Hip-Hop ($n=55$), Rap ($n=62$), or Rock ($n=66$).

Other song content. We also used the coding algorithm described previously to classify songs based on the presence of tobacco, alcohol, marijuana, cocaine, or other drugs. Our "other drugs" category included less commonly portrayed substances, such as opiates, hallucinogens, prescription drugs, or nonspecific substances. Coders had at least moderate agreement for each of these outcomes. A more complete description of substance use items is available.²⁵

We also classified each song on a three-point scale (0–2) with regard to violence. We assigned 0 if there was no violence, 1 if there was threatened or actual bodily harm (e.g., "She knocked out my front tooth"), and 2 if there was threatened or actual loss of life due to violence (e.g., "I shot that cop down"). We also assigned a weapon-carrying score on a similar scale: 0 if there were no weapons, 1 if one weapon was mentioned (knife, gun, etc.), and 2 if there were two or more weapons mentioned during the course of the song or if at least one weapon was actually used in a violent act. Inter-rater agreement for each of these measures was at least 74%; more specific agreement values for these measures have been previously published.²⁵

Analysis

We first computed the number and percentage of songs in our sample with references to no sexual intercourse, degrading sexual intercourse, and non-degrading sexual intercourse. We then used Chi-square analyses to determine if there were differences between songs

with any sex and songs without sex by (1) gender of the lead singer, (2) primary genre, (3) presence of each episode of substance use, (4) violence, and (5) weapon carrying. We also conducted similar Chi-square analyses comparing songs with degrading sex vs. songs with no sex. Finally, we compared songs with non-degrading sex to songs with no sex. We chose a priori to define statistical significance as $p < 0.05$.

RESULTS

Of the 279 unique songs identified, 103 (36.9%) contained references to sexual intercourse and 176 (63.1%) did not. Of those referencing sexual intercourse, 67 (65.0%) were classified as degrading sex and 36 (35.0%) were classified as non-degrading sex. Examples of degrading and non-degrading sex are found in the Figure.

Figure. Examples of sexual references

Type of sexual reference	Reference	Song number	Artist number
Non-degrading	"Come a little closer baby, I feel like strippin' it down Back to the basics of you and me And what makes the world go round Every inch of you across my skin I wanna be stronger than we've ever been"	57	56
	"Every night doin' you right You're the type of woman (deserves good thangs) Wish for the diamonds (I have the ring) Baby you're a star (I just want to show you, you are) You should let me love you Let me be the one to give you everything you want and need"	148	127
	"I'm gonna light the bedroom candles Take the phone out of the wall We can lay around and talk for hours Or maybe we won't talk at all I'm gonna resurrect the love That slipped away from us And the man you've been missin' Startin' with some long, slow kisses"	159	88
	"I'm here to cater to you (anything that you want me to do I'll do it) Cause I'll be your lover (I'll be your lover) I'll be your best friend Tell me what I gotta do (tell me what I gotta do and I'll do it)"	20	19
Degrading	"They said my flow was lame, they said I had no game I told 'em all I was fixin' to blow they thought I was insane But then my name started blowin' up quick, now they jumpin' on my dick Cause they see me on the rise and know now my paper thick"	23	130
	"Get on top then get to bouncing round like a low rider I'm a seasoned vet when it come to this shit After you work up a sweat you can play with the stick I'm tryin to explain baby the best way I can I melt in your mouth girl, not in your hands"	47	5
	"Show me you can take it boo Let me fuck you first now girl Show me what you can do Come and fuck me in reverse now girl When we on the couch I can make you moan Eat you up when we in the kitchen"	92	201
	"Ay bitch! Wait 'til you see my dick. Wait 'til you see my dick. Ay bitch! Wait 'til you see my dick. Imma beat that pussy up."	262	216

Although songs with references to degrading sex were more likely than songs with no sexual references to be sung by males ($p=0.03$), songs with non-degrading sex exhibited an insignificant trend toward being more likely to be sung by females or mixed groups ($p=0.07$), compared with songs with no sex.

The prevalence of references to different types of sex differed significantly by musical genre (Table). Those songs with degrading sex were most commonly Rap (64.2%) or R&B/Hip-Hop (22.4%). Songs with non-degrading sex, however, were most often Country (44.5%) or R&B/Hip-Hop (27.8%).

References to substance use were more common in songs with degrading sex than songs with no sex (77.6% vs. 28.4%, $p<0.001$). However, substance use references were no more common in songs with non-degrading sex than they were in songs without sex ($p=0.21$). Similar patterns emerged when considering each substance individually. Compared with songs with no sex, songs with references to degrading sex were more likely to contain any reference to substance use, explicit references to use, or use of tobacco, alcohol, marijuana, cocaine, or other drugs (Table). However, compared with songs with no sex, songs with non-degrading sexual references were no more likely to contain references to substance use.

Songs with degrading sex had more references to violence and weapon carrying than songs without degrading sex ($p=0.001$ and $p<0.001$, respectively). However, songs with references to non-degrading sex were no more likely to reference violence or weapon carrying ($p=0.32$ and $p=0.34$, respectively). In fact, none of the 36 songs with references to non-degrading sex contained references to weapon carrying, and only two of the 36 songs (5.6%) contained some reference to violence.

DISCUSSION

This study demonstrated that more than one-third of popular songs portrayed sexual intercourse, and that in about two-thirds of those references the intercourse was degrading. It also showed that genres differ in the types of sex they portray, with Rap having the highest levels of references to degrading sex and Country and R&B/Hip-Hop featuring the highest levels of references to non-degrading sex. Finally, references to substance use, violence, and weapon carrying were associated with songs featuring degrading sex but not with songs containing non-degrading sex.

Our finding that about one-third of popular music contains references to sexual intercourse is important because adolescents listen to popular music about 2.4

hours each day.¹ Our results therefore suggest that the average adolescent who listens to a complete cross-section of popular music will spend about 48 minutes each day listening to songs with sexual content, and about 32 minutes each day listening to songs with degrading sexual content. However, our results further suggest that degrading sex is far more common in some genres than others, with the vast majority of degrading sexual references found in two genres (Rap and R&B/Hip-Hop). Interestingly, these happen to be the most popular genres among young people today, regardless of demographic characteristics.¹

Future research will need to clarify what impact this exposure has on sexual and other health-related behavior outcomes. Research investigating the relationship between visual media and sex show that the two are related.^{5,26,27} Although music lacks the visual elements of film and television, there are reasons to believe that references in popular music may be as potent in their relationship with sexual behavior.^{4,5} Music is known to be highly related to personal identity,^{11,28,29} young people often model themselves in terms of dress, behavior, and identity after musical figures. In addition, exposure to popular music is vast, with the average adolescent now listening to about 16 hours of music each week.

Our finding that sexual content is frequent in popular music may also have implications for sexual health education. Considering the daily and weekly estimates of music exposure among U.S. youth,¹ sexual health lessons are likely to be dwarfed in young people's minds by the lessons they learn through music lyrics' representations of sex. It may therefore be useful for health educators, health professionals, and curriculum designers to become familiar with the messages young people receive about sex in popular music, so that they can effectively respond to those messages. Innovative interventions could identify creative ways of generating doubt in the minds of young people as to the veracity of the sex-related media messages they receive. One way of doing this may be to include media literacy in sexuality education programming, whereby young people learn to analyze and evaluate media portrayals of sex.^{5,30-32}

Our finding that different types of sexual content vary significantly by genre suggests that those exposed to specific musical genres may be at increased risk for the sequelae of early intercourse. This is because previous research has demonstrated an association between degrading sexual content and early sexual intercourse.^{4,18} Those exposed to proportionally more Rap music, for example, may be at increased risk of early coitarche and sexually transmitted infections. It

Table. Associations between sexual content and other song characteristics

Characteristic	All songs (n=279)	Songs with no sex (n=176)		Songs with non-degrading sex (n=36)		Songs with degrading sex (n=67)	
	Column percent	Column percent	P-value ^a	Column percent	P-value ^b	Column percent	P-value ^c
Gender (of lead singer)							
Male (n=213)	76.3	74.4	0.10	63.9	0.07	88.1	0.03
Female (n=58)	20.8	23.9		27.8		9.0	
Mixed (n=8)	2.9	1.7		8.3		3.0	
Genre							
Country (n=61)	21.9	22.7	<0.001	44.5	0.001	7.5	<0.001
Pop (n=35)	12.5	17.6		5.6		3.0	
Rap (n=62)	22.2	8.0		13.9		64.2	
RBH (n=55)	19.7	17.1		27.8		22.4	
Rock (n=66)	23.7	34.7		8.3		3.0	
Presence of substance use							
Any reference (n=116)	41.6	28.4	<0.001	38.9	0.21	77.6	<0.001
Explicit use (n=93)	33.3	22.7	<0.001	25.0	0.77	65.7	<0.001
Tobacco (n=8)	2.9	1.7	0.13	0	0.43	7.5	0.025
Alcohol (n=66)	23.7	12.5	<0.001	22.2	0.13	53.7	<0.001
Marijuana (n=38)	13.6	7.4	<0.001	0	0.09	37.3	<0.001
Cocaine (n=14)	5.1	2.8	0.029	2.8	0.98	11.9	0.005
Other drugs (n=43) ^d	15.4	10.8	0.005	5.6	0.34	32.8	<0.001
Violence							
None (n=233)	83.5	87.5	0.053	94.4	0.32	67.2	0.001
Some (n=23)	8.2	6.8		5.6		13.4	
Extensive (n=23)	8.2	5.7		0		19.4	
Weapon carrying							
None (n=252)	90.3	94.3	0.012	100.0	0.34	74.6	<0.001
Some (n=10)	3.6	2.3		0		9.0	
Extensive (n=17)	6.1	3.4		0		16.4	

^aP-value is for comparison of songs with no sex vs. songs with sex.

^bP-value is for comparison of songs with non-degrading sex vs. songs with no sex.

^cP-value is for comparison of songs with degrading sex vs. songs with no sex.

^dIncludes opiates, hallucinogens, prescription drugs, and nonspecific substances.

RBH = Rhythm & Blues/Hip-Hop

will be interesting in future research to determine if preference of and/or exposure to certain genres are associated with sexual experience. Additionally, it will be interesting to explore the reasons for differential portrayal of degrading sex in various genres. The sexual content of a genre's songs is likely to be due to a number of social, political, and economic factors, but further research will be necessary to determine more specifically the reasons for these differences. In the meantime, however, this information may be used in developing health promotion materials and campaigns. If indeed those listening to Rap music may be more at risk for sexual risk taking, the principles of social marketing would suggest that it may be useful to choose a Rap artist to be a spokesperson regarding sexual health.

Our finding that songs containing degrading sex more frequently referenced substance use and violence is troubling because substance use can increase both sexual risk taking^{33,34} and violent behaviors.³⁵ These findings are also concerning because a prior study found that exposure to televised music videos was associated with increased acceptance of rape,³⁶ and it is estimated that over the course of one year, up to 30% of young women have an unwanted sexual experience.³⁷ As alcohol use has been associated with date/acquaintance rape,³⁸ further studies examining the relationship between music lyrics and sexual risk taking will need to consider the mediating effect of musical references to use of substances such as alcohol.

Limitations

Our study was limited in that it focused on one year of popular music, and it is possible that there are temporal trends in references to sex in musical lyrics. As such, it will be important to conduct longer-term analyses of popular music content using rigorous methods. Additionally, it should be noted that coding even the mere presence or absence of sexual activity can be difficult because of the tendency for song lyrics to be highly suggestive but not explicit (Table). It is for this reason that we employed a complex coding methodology and confirmed that our coders reached an adequate level of inter-rater agreement. Still, the challenge of determining sexual content remains an important limitation to this type of work. Finally, it should be emphasized that the purpose of this study was not to link sexual content to actual sexual behavior. This content analysis, however, provides the foundation on which future studies investigating the relationship between exposure to sexual content and actual sexual behavior can be built.

CONCLUSION

Adolescents who listen to contemporary popular music are frequently exposed to sexual content, and this exposure varies widely by genre. Additionally, references to substance use and violence frequently accompany references to degrading sexual intercourse but not to non-degrading sexual intercourse. It will be important to continue surveillance of sexual references in popular music over time and to study the impact of sexual messages in popular music on adolescent sexual behavior.

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