Prevalence and implications of genital tattoos: A site not forgotten

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Abstract

Purpose: To provide information on men who have tattooed one anatomical site, the genital region (pubic and/or glans penis), that is uncommonly noted.

Methods: Two methods were used. First, the limited cultural and medical literature was reviewed. Secondly, a subsample of 14 men were analyzed, taken from a primary study examining male genital piercings (N = 445), who responded affirmatively to one survey question about penile tattoos.

Findings: The literature (n = 25) was limited. Cultural literature revealed a long, rich history of genital markings for esthetics, sexual enhancement, and tribal status, whereas the medical literature reflected limited observational type information, some actual case histories, and few studies. From the small subsample, qualitative and quantitative data were provided. Similarities to those who wore general body tattoos were validated such as being single, heterosexual, having some college/vocational education, monthly binge drinking, no skin complications, and a strong propensity for a Need for Uniqueness. Reportedly, they were major body art wearers and continue to enjoy them. First age occurrence of sexual intercourse was similar to the national average of 17 years. Challenged assumptions included (a) no consensus regarding being risk takers, (b) significant reported forced sexual activity, and no (c) physical, sexual or mental abuse.

Conclusions: From our experience, those with genital tattoos are seen primarily for a normal range of developmental and physiological urologic issues, not their decorative markings; these genital tattoos are an integral part of their cultural and personal expression and most likely will increase. Yet, the markings are only skin deep so clinicians should adopt a nonjudgmental approach and employ methods of proactive patient health education.

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other tattoo markings on the penile skin and mucosa during the Upper Paleolithic era in Europe 12,700 to 11,000 years ago have been reported. Likewise, the Samoan Island culture, where the word "tattoo" is believed to have originated from "tattau," has maintained ritualistic traditions for over two thousand years; they are initiated at the time of puberty for future leadership roles. These 10+ days of ceremonies include very painful, repeated tattooing of the scrotum (tafumiti) and the penis (tafito). Other nearby primitive Polynesian tribes have believed this tattooing as highly erotic, whereas the indigenous Maori (New Zealand) trust that the pigment for these tattoos can trap cosmic energy. Circumcision and tattooing were thought to produce the same effect of magic protection and healing powers after scar healing. In the Japanese culture, an examination of Yakuza (racketeers or gangsters) also describes the genitalia as a site that is tattooed, fulfilling their principles of tattoos always being covered.

Searching for information about genital tattoos was more challenging within the medical literature. A comprehensive longitudinal 40 year search of the national and international electronic medical literature (1973-2013) published in English and their associated reference lists was conducted with MEDLINE, EMBASE, CINAHL, SCOPUS, and OVID. Only 20 articles were located that mentioned genital tattoos. Articles were from international authors (n = 11) and the U.S. (n = 9); they all produced interesting reading. One reference cited women with genital tattoos. Genital tattoos in the early literature were labeled as criminal, or personality disorders tattoos; one recent article discussed them under the header of genital self-mutilation. Others described them as a valuable clue for forensic pathology identification. World War II articles cited descriptive stories of soldiers with penile tattoos, with one reporting up to 10 sailors being seen. Besides reporting on how the fate of Bulgaria was determined by three tattooed men (Churchill with an anchor, Roosevelt with a family coat of arms tattoo, and Stalin with a death’s head on his chest), Kazandjeva then provides vivid examples of auto-aggression markings that his countrymen self-inflicted after the Communist takeover. This included glans penis tattoos which are described as producing great pain. One political candidate, while campaigning, is reported as suggesting punitive action for those HIV+ by "putting indelible, glow-in-the-dark tattoos on [their] genitals." Traumatic tattoos associated with gunpowder explosions and blast burns are also mentioned on the glans penis.

Two studies also described inmates with genital tattoos and discussed how these markings demonstrated aggressive behavior within this type of environment. Here large, colorful tattoo designs and wording on the glans penis tattoos were described which seemed to satisfy the inmate’s flaunt of personal pain endurance. Additionally, Cuban refugees (Marielitos) fleeing to the U.S. were reported as having genital tattoos; they also were from prison subcultures and their markings had various sexual overtones.

Four other reports described those with penile tattoos also routinely inserting foreign bodies and paraffinoma into the penis. In Pehlianov's study (also in Bulgaria) they included a control group of another 25 men with genital tattoos. Recently, a unique case of non-ischemic priapism for 3 months was reported following prolonged bleeding from a manual penile tattoo procedure in Iran. The authors suggested the handheld tattoo needle had penetrated too deeply producing an arteriovenous fistula and the subsequent persistent half-rigid priapism. The authors also noted that the 21 year old patient expressed no regret, depression, or other complications related to the genital tattoo.

Original Study

The initial study queried males with genital piercings using available internet survey software, as it was considered a hidden variable. Anonymity and access to people nationally and internationally were major advantages for using this nontraditional approach. The university institutional review board deemed the study status as Exempt. To obtain quantitative and qualitative data about those men with genital piercings, an 83 item web-based survey was used; overall results, and another subsample of this data, are published elsewhere. Subsample of those with Penile Tattoos

From the original 445 male genital pierced individuals that responded to the question regarding having tattoos on their penis, 14 replied affirmatively. This subsample had previously been determined not be an outlier of the larger group of genital pierced men. While a short general description (age span at the time of tattoo procurement, urethral "play," design types, motives, and tattooists) about the 14 member genital tattoo subsample was published in 2010, further investigation leading to quantitative and qualitative (Figure 1) data is presented here.

Figure 1: Subsample Respondent Qualitative Quotes

*Black tribal flames on the top of the shaft, done at [age] 38
* For erotic reasons, self done with no complications, done at [age] 54
* I got it because I wanted it. After it was finished I realized I needed it, done at [age] 30
* I self tattoo’d my penis on the glans and around the corona ridge in order to make up for its lack of size and to enhance its appearance. I used a sailmaker’s needle and Indian ink and there were no complications, done at [age] 43.
* One small cross pigment tattoo!
* I’m a little more than average in size, but I still have issues with my genitals. The way they look and their size. Piercings and tattoos have helped me quite a lot.
This subsample had significantly more foreskin genital piercings (chi-square = 11.5) = 1; P = .001), whereas the most common genital piercing of the larger group of those without genital tattoos had Prince Albert piercings (inserted through external urethra). No question inquired which came first, the genital piercing or genital tattoos.

Data Analysis

For this subsample analysis, (and original study), IBM SPSS 21 was used to obtain frequencies and chi-square analysis. Cross tabulations for the subsample were obtained by comparing those with and without penile tattoos.

RESULTS

Demographics

Almost all of the subsample respondents with penile tattoos were reportedly Caucasian (92%) and their ages ranged from 18 to 67 years (average 42.3). Of those that replied, six lived in the U.S. and five cited various international locations. Over half had vocational or college education (64%) and significantly more were likely to be single (25%) or divorced (25%), (chi-square 12.6) = 5; P = .027). Data regarding religious faith was weak to non-existent (75%). Respondents self-reported a good state of health (92%) (chi-square = 8.7) = 3; P = .034), yet 50% cited no annual health check-ups.

Risk Behaviors

Within this subsample, there was no consensus about being a “risk taker”. Recreational drugs were reportedly not used (91%), over half were non-smokers (55%), but monthly alcohol use with binge drinking (5+ or more drinks) was cited (78%). Their “motives for genital tattoos were for esthetics, sexual, and personal pleasure”12; a variety of penile tattoo designs were described (Figure 1), created either “by studio artists (n = 11) or self-inflicted (n = 3”).12 All of them described having other body art, such as piercings and other general body tattoos. Some reported an average of 4 piercings (81%) and a significant amount of general body tattoos (average 3.5) (chi-square = 11.1) = 5; P = .049), that still interest them (85%) (chi-square = 8.9) = 3) P = .031).

Sexual Activity

This subsample’s average age of first intercourse was 17 years, with most citing women as their sexual partners (92%), most preferred penile/vaginal intercourse (79%), and only one respondent reported a sexually transmitted infection (gonorrhea). When asked about any forced sexual activity (rape), this subsample had a significant amount of those who answered affirmatively (23%) (chi-square = 7.7) = 1; P = .005). Virtually no sexual, physical, or mental abuse was reported.

Need for Uniqueness

A four-item scale called the Self-Attributed Need for Uniqueness (SANU) was present in the survey to determine the respondent’s self-view (Cronbach alpha = .86). Using a Likert scale, the subsample’s moderate, strong and very strong perspectives were collectively summarized. These respondents with penile tattoos preferred to be different (79%), distinctive (86%), intended to do things to make themselves different than those around them (72%), and reported a Need For Uniqueness (93%) (Cronbach alpha = .77). To validate this finding, when all 5 responses of SANU were totaled, the mean was 12.43 documenting a more positive perspective for intentionally wanting to be different, distinctive, and unique.

DISCUSSION

This article reviewed both the cross cultural and medical literature about those with genital tattoos, as well as included both a quantitative and qualitative subsample data analysis of a small group of men who specifically reported penile tattoos. Yet, with certainty this small sample size produced limitations and reporting/survey bias. Additionally, any generalizability with the findings of this subsample should be noted as the respondents could have self-selected their participation and used their personal judgment to interpret the survey questions in this non-experimental cross-sectional study using internet survey methodology.12

From this review and to our knowledge, few have studied groups of men with genital tattoos, a difficult group of subjects to find with this hidden variable.12,31 Cultural descriptions documented a long, rich history12, 14-17, 29,31 of genital markings for esthetics, sexual enhancement, and tribal status, whereas the medical literature reflected limited observational type information, and few actual case histories or scientific studies. Although there were no mental health evaluations cited in this medical literature, more psychopathic, deviant behavior discussions were made about the individuals with genital tattoos.16-18,20,52,55 In contrast, two authors60,35 comment on the “normalcy” of their patients that presented with genital tattoos.

Genital tattoos may be more common than this very small subsample size suggested as great emphasis has been placed on male penile size in many cultures, for a long time.31,56 The augmentation of these genital markings and decorative designs
seemed to have motivated their sexual health, self-enhancement\textsuperscript{[9-10]} and well-being.\textsuperscript{11} Thus, when further studies are considered for this population with a hidden variable, these findings should assist with further ideas of investigation.

Current society has a strong 25 year renaissance of procuring tattoos with at least one in five, and perhaps even four, individuals possessing a tattoo, on virtually every part of their body, without major complications. This small subsample of those who have genital tattoos validates some similarities to those who wear general body tattoos such as a single heterosexual orientation, possessing some college/vocational education, monthly binge drinking,\textsuperscript{13-5,10} and a strong propensity for a Need for Uniqueness.\textsuperscript{4-5,17} They were major body art wearers and continue to enjoy them, as others have also reported.\textsuperscript{4-5,10-12}

Yet other demographic assumptions were challenged for this subsample of men with genital tattoos. These international respondents tended to be older Caucasians and not as ethnically diverse; there also was not a consensus as to them being risk takers, as has been repeatedly reported by many other body art respondents.\textsuperscript{1,3-5,11-12}

Subsample respondents reported their average first occurrence of sexual intercourse at age 17, similar to the national figures.\textsuperscript{38} Significant experiences of rape were also reported in this subsample, as in women with genital piercings.\textsuperscript{4-5,9-10} The national rate for forced sexual activity is 10.5\%\textsuperscript{38} and those with genital tattoos reported over twice that amount (23\%). No sexual abuse was reported in contrast to a recent German study\textsuperscript{39} examining general body tattooing.

As with any type of invasive procedure, there can be complications with certain types of body art. When these complications occur, body art wearers typically first seek the internet and/or their studio artist for health advice before presenting to clinicians.\textsuperscript{1,8,10-12} Yet, overall for the amount of general tattooing done, this type of body art produced limited documented complications and more potential concerns.\textsuperscript{7,8,11,30,35} More complications were reported when the tattoos contained colored pigments.\textsuperscript{6}

These tattoos are an integral part of their cultural and personal expression.\textsuperscript{12,31,35} From our experience many of these male patients with genital tattoos are not seen primarily because of their decorative markings,\textsuperscript{31} but during clinical evaluations for other issues presented with the normal range of urologic issues involving overall genitourinary and sexual function. Genital tattoos can be an ambivalent findings for many clinicians, but tattoos can be an ambivalent findings for many clinicians, but these indelible skin markings (tattoos) are only skin deep,\textsuperscript{49} and provide valuable cues such as a history of sexual trauma.\textsuperscript{39} Currently more genital tattoos are seen among our freedom-impaired patients, where the prevalence of general body tattoos among the inmates can be as high as 67\%.\textsuperscript{11}

Anecdotally, when healthcare staff discover a patient with genital body art, this discovery can be met with judgmental attitudes and behaviors which could impact care. To adequately assess, evaluate and treat the individuals that have chosen to have genital tattooing, clinicians should strive to provide a thoughtful, nonjudgmental patient-centered approach, along with a generous application of health education, for their present, or even future body art.\textsuperscript{11}

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Competing Interests
None declared

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