Perianal verrucous epidermal naevus mimicking perianal warts

A case of perianal verrucous epidermal naevus mimicking perianal warts in a 2 year old boy is described. Verrucous epidermal naevi should be included in the differential diagnosis of perianal warty lesions, particularly when they are present since birth or appear during childhood.

CASE REPORT

A 2 year old boy was referred by a paediatrician for the evaluation of a perianal verrucous lesion which looked like perianal warts. The condition was first noticed by the child’s mother when he was 9 months old as a raised velvety area around the anal orifice. Over the next few months, multiple, small, warty elevations developed over the region. The lesions had remained stable thereafter. Over the next few months, multiple, small, warty elevations developed over the region. The lesions had remained stable thereafter.

Detailed systemic examination failed to reveal any abnormality. A provisional diagnosis of verrucous epidermal naevus was made and a punch biopsy specimen was obtained. Histological examination corroborated the clinical diagnosis by showing hyperkeratosis, acanthosis, and papillomatosis without any evidence of vacuolar change in the keratinocytes or any dermal pathology. Virological study for human papillomavirus (HPV) could not be done owing to lack of facilities. The parents declined any immediate treatment for the asymptomatic condition and during a follow up period of 1 year, the child has remained healthy with the lesions remaining unchanged in appearance.

COMMENT

Verrucous epidermal naevi are circumscribed hamartomatous lesions composed almost exclusively of keratinocytes.1 Most epidermal naevus usually occur at birth or infancy but rarely their appearance may be delayed until puberty.2 The lesions typically consist of closely set warty papules that coalesce to form well defined keratotic plaques usually in a linear fashion. Verrucous epidermal naevi may be almost of any size, may be single or multiple, and can occur at more or less any site.3 Since these lesions closely mimic viral warts, their occurrence in the perianal region during childhood or adolescence may raise the suspicion of perianal warts as in the present case. Onset of the lesions early in life, their stable nature, typical linear configuration, and histological features may help in the differential diagnosis. Usually only of cosmetic importance, the skin lesions may be treated by cryother-apy, surgical excision, or carbon dioxide laser ablation.4

Epidermal naevi, particularly if extensive, may be associated with other developmental anomalies mainly involving the central nervous system, the skeletal system, and the eyes.5 In a large study, one or more such abnormalities were demonstrated in 33% of cases.6 Since patients with epidermal naevi are at significant risk of having other abnormalities, detailed systemic examination and periodic follow up is warranted in every case to exclude them.

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References


Investigating the microbial aetiology of pelvic inflammatory disease

An effort to elucidate a subject which is laden with difficulties is noteworthy, so that it was interesting to read the report by Simms et al7 on the associations between Mycoplasma genitalium, Chlamydia trachomatis, and pelvic inflammatory disease (PID). The difficulties are at least threefold. Firstly, a diagnosis of PID based on symptoms and clinical signs, as in the study reported, is acknowledged, both generally and by the authors, to be imprecise. Clinical observations often do not tally with laparoscopic findings,8 laparoscopy being a fundamental diagnostic requirement in research investigations. Secondly, it is obvious that specimens cannot be taken from the inflamed site in question without laparoscopy. Indeed, it is axiomatic that this should be done if there is to be any chance of unravelling the microbial aetiology. Taking specimens from the cervix is very much second best as the results of microbiological testing may bear no relation to the pathological changes in the tubes. Thirdly, and no less relevant, is the question of an adequate control group. It seems that this should not comprise women undergoing tubal ligation. Although a source of normal tubes would seem sensible, the women were not in the same cohort as those with disease and, in any event, for comparative purposes specimens were taken from the cervix. Surely, an examination of specimens from women without symptoms and signs of PID but who were otherwise comparable to those who did have symptoms and signs would have been more appropriate? In future investigations, controls should be women within a laparoscopically based study who are found not to have PID on laparoscopy. Even then, the situation may be clouded, because, in one study,9 C trachomatis was detected as often in the tubes of women who did not have PID visually as in those of women who did. Certainly, however, finding M genitalium in PID, despite some strong suggestions that it might be involved, is a far cry from unravelling the role of M genitalium in PID, despite some strong suggestions that it might be involved.

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References

Lack of evidence for sexual transmission of hepatitis C virus in patients attending STD clinics in Pune, India

The presence of hepatitis C virus (HCV) RNA in semen among two of six (33%) HIV negative and six of 15 (40%) HIV infected males, reported recently suggests that HIV may facilitate genital shedding and subsequent sexual transmission of HCV. We determined HCV prevalence and examined evidence for its sexual transmission in a cohort of STD patients with observed HIV prevalence of 21.2%.

Consecutive serum samples (n = 9141) collected between January 1994 and December 1999 were batched, pooled, and tested for anti-HCV antibody. Ortho Clinical Diagnostics, Germany. As previously described, 25 μl aliquots of five samples were pooled and 20 μl of each pool were screened. Samples from positive pools were then tested individually. Positive sera were tested by HCV RNA polymerase chain reaction (PCR) using standard primers. HIV antibody status of each sample was ascertained using the algorithm described previously. Data were analysed using statistical package SPSS version 10.0. This study was a part of a prospective cohort study that was approved by ethics committee/institutional review boards of the collaborating organisations and blood samples were collected after counselling and informed consent.

Overall prevalence of anti-HCV antibodies was 0.68% (62/9141, 95% CI 0.52 to 0.87). The prevalence among HIV infected individuals (1.5%, 95% CI 1.0 to 2.1) was higher (p = 0.01) than that in those not infected (0.44%, 95% CI 0.3 to 0.6). The annual anti-HCV antibody prevalence rate between 1994 and 1999 was 0.57%, 0.46%, 1.10%, 0.81%, 0.37%, and 0.61%, which did not change significantly over time (table 1). Of the 35 anti-HCV antibody positive sera tested, 27 (77%) were HCV RNA PCR positive.

Univariate analysis revealed that history of past or current STD was not associated with HCV, whereas female sex (OR = 2.07, 95% CI 1.17 to 3.66), prevalent HIV infection (OR = 3.38, 95% CI 2.05 to 5.58), history of tattoo (OR = 2.18, 95% CI 1.31 to 3.63), and being a sex worker (OR = 2.35, 95% CI 1.27 to 4.35) were significantly associated with prevalence of anti-HCV antibody. However, multivariate analysis revealed that prevalent HIV infection and tattooing increased the likelihood of presence of anti-HCV antibodies by 3.08-fold (AOR 3.08, 95% CI 1.86 to 5.11, p < 0.001) and 1.87-fold (AOR 1.87, 95% CI 1.12 to 3.13, p = 0.017), respectively (table 1).

A rapid spread and high HCV prevalence of 80% has been reported recently among a cohort of injecting drug users from Kolkata, India. In contrast, we observed a low and stable prevalence of anti-HCV antibody among STD clinic attendees over the past 6 years in an urban setting where HIV transmission was predominantly sexual. Given that a high HIV prevalence was reported among female sex workers (FSWs) in this population and about 70% of males attending STD clinic had visited FSWs in the past 3 months, stable HCV prevalence over 6 years suggests that HCV is not efficiently transmitted sexually. Additionally, no association was found between past or current STD and HCV prevalence, and a high prevalence and incidence of HBV, a known sexually transmitted infection, have been reported in this population. Our analysis failed to identify any evidence that could support sexual transmission of HCV.

Table 1 Characteristics of study participants and association with prevalent anti-HCV antibody

<table>
<thead>
<tr>
<th>Variable</th>
<th>No</th>
<th>Anti-HCV antibody positive (%)</th>
<th>Unadjusted OR (95% CI)</th>
<th>p Value</th>
<th>Adjusted OR (95% CI)*</th>
<th>p Value*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Year screened</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1994</td>
<td>901</td>
<td>11 (0.57)</td>
<td>1 (Referent)</td>
<td>Not included in multivariate analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1995</td>
<td>1933</td>
<td>9 (0.46)</td>
<td>0.80 (0.33 to 1.94)</td>
<td>0.628</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1996</td>
<td>1997</td>
<td>22 (1.10)</td>
<td>1.91 (0.93 to 3.96)</td>
<td>0.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1997</td>
<td>1109</td>
<td>9 (0.81)</td>
<td>1.41 (0.58 to 3.40)</td>
<td>0.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1998</td>
<td>1064</td>
<td>9 (0.87)</td>
<td>0.62 (0.21 to 2.04)</td>
<td>0.459</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1999</td>
<td>1135</td>
<td>7 (0.61)</td>
<td>1.07 (0.41 to 2.76)</td>
<td>0.895</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>9193</td>
<td>62 (0.67)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 2 Males who had contact with sex worker | | | | | | |
| YES | 6281 | 40 (0.69) | 1.63 (0.69 to 3.86) | 0.259 |
| NO | 1535 | 6 (0.39) | 1 (Referent) | Not included in multivariate analysis |
| TOTAL | 7816 | 46 (0.58) | | |

| 3 Sex | | | | | | |
| Women | 1323 | 16 (1.21) | 2.07 (1.17 to 3.66) | 0.013 | 0.469 |
| Men | 7816 | 46 (0.59) | 1 (Referent) | | |
| TOTAL | 9199 | 62 (0.67) | | |

| 4 Sex worker | | | | | | |
| Yes | 933 | 13 (1.39) | 2.35 (1.27 to 4.35) | 0.006 | 0.231 |
| No | 8206 | 49 (0.59) | 1 (Referent) | Not included in multivariate analysis |
| TOTAL | 9139 | 62 (0.67) | | |

| 5 HIV serostatus | | | | | | |
| Pos | 2102 | 31 (1.47) | 3.38 (2.05 to 5.58) | <0.001 | 5.11 |
| Neg | 7037 | 31 (0.44) | 1 (Referent) | 1 (Referent) | |
| TOTAL | 9139 | 62 (0.67) | | |

| 6 History of tattoo | | | | | | |
| Yes | 3703 | 37 (0.98) | 2.18 (1.31 to 3.63) | 0.003 | 3.13 |
| No | 5424 | 25 (0.46) | 1 (Referent) | 1 (Referent) | |
| TOTAL | 9127 | 62 (0.67) | | |

*Multivariate analysis was done using binary logistic regression by forward LR method. OR = odds ratio.

References

Monosymptomatic hypochondriacal psychosis

Dr O’Mahony illustrates in his literary and graphic way the difficulties associated with dealing with this condition (from which his patient was almost certainly suffering). It is good to know that his hospital is taking seriously the issue of actual or perceived violence to staff. Having had several similar cases over the past couple of years, including one who eventually committed suicide, I have been able to make appropriate arrangements with a psychiatrist who was unequivocal in his advice that he should be in on a subsequent consultation right from the start and be introduced to the patient as a double consultation. The ethics of this include the fact that such delusional patients are, of course, psychotic and unable to bring rational decision making processes to the problem.

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A population based dynamic approach for estimating the cost effectiveness of screening for Chlamydia trachomatis

We read the recent paper in STI on cost effectiveness for Chlamydia trachomatis screening by Honey et al with great interest.1 We concur with their conclusion that more data derived from clinical trials are needed for policy making, particularly when considering the evidence on the subsequent risk of pelvic inflammatory disease (PID) in women who test positive for Chlamydia trachomatis.

Our paper was included and discussed in this review. As our approach was rather complex, we note that some parts of our design and results may have been misinterpreted. Honey et al note that our study was focused on screening both men and women in general practice with an age range for evaluation of 15–64 years. Although this information is correct, it does not reflect that screening for women only was considered separately and that women older than 34 years were not included in the screening programme. This misinterpretation by Honey et al formed the basis for exclusion of our study from further systematic review.2

Our approach differs from others in that we investigate cost effectiveness by employing a population based dynamic model (Monte Carlo simulation).3 This approach enables us to simulate the C. trachomatis transmission, the impact of prevention measures on the C. trachomatis incidence and prevalence, and the risk for C. trachomatis infection in a population. As a result, indirect effects (for example, future partners of current partners) over a period of several years can be considered using rates of partner change, mixing patterns, and transmission probabilities. We chose to analyse the screening programme over a period of 10 years. In our baseline analysis we assessed screening of men and women aged 15–24 years. However, in the scenario analysis we evaluated several other screening strategies, including screening of women aged 15–24, 15–29, and 15–34 years.

In this study, we investigated the contamination of environmental surfaces with human papillomavirus (HPV) DNA in two genitourinary medicine (GUM) clinics.4 This study was intended to review the GUM clinic in which HPV DNA was found to be present. Cleaning with "general purpose neutral liquid detergent" (detergent) (Youngs Detergents, Lancare Ltd, UK) and water, or 2% Clearsol (disinfecting detergent, 40% VV Tar Acids; Coventry Chemicals Ltd, Coventry, UK) in 70% methylated spirits (Clearsol) was performed following the results of the previous study.

Twenty samples were collected from two treatment rooms and patients’ toilets at each time of sampling. Samples were tested and typed as described previously. Surfaces sampled, and accumulation of HPV DNA during a single day, are listed in table 1.
Sampling was performed at 08.30 on two consecutive days and a third set of samples was collected at 16.30, the end of the clinic hours, on day 2. Following cleaning with detergent and water at the end of the working day (sampling 1), nine of the 20 surfaces tested were contaminated. It was decided to clean surfaces with a more stringent agent. After subsequent cleaning with Clearsol solution, HPV DNA was present on one surface at the beginning of the day, and on four at the end of the day.

β Globin DNA was detected in all HPV DNA positive samples, indicating HPV was cell associated, and in a further five samples taken at the end of the day from HPV DNA negative surfaces.

Compared to our previous study a 50% reduction in surface contamination with HPV DNA was found after cleaning with detergent and the number of types detected was reduced. Only HPV types 6, 11, 16, and 58 were detected on the nine different surfaces. This is also a 73% reduction in the number of types detected in our previous study.1 HPV types 6, 11, and 16 were still the most common types found (all types in table 1).

Three of the samples positive for β globin DNA but negative for HPV DNA were from the patients’ toilets and/or the male clinic examination couch. On the examination lamp switch and the edge of the examination couch, DNA was probably from the doctor’s gloves, whereas β globin DNA detected on the surfaces sampled in the patients’ toilets was probably the result of cells shed naturally. Cleaning with Clearsol was more effective, then cleaning with a detergent, which was more effective than no cleaning, but not sufficient. Early in the 20th century Ignaz Philipp Semmelweis showed that hand washing with soap/water was not as effective as washing with ethanol.2 It has also been shown that alcohol based disinfectants have a better effect than antiseptic soaps.3 Different antiseptics and decontaminants, whether water or alcohol based, may have different viricidal efficiencies.4 There are few data on environmental decontamination; however, this study suggests cleaning with Clearsol: mediated spirit is reasonably effective at decontaminating environmental surfaces, but contamination will recur unless cleaning is performed regularly.

Contributors
The principal author SS, with the co-author HS, collected the samples and performed the PCR and the reverse hybridisation on the environmental samples; CS supervised the sample collection in GUM clinic and was co-author; JG supervised the project and was responsible for sample collection in GUM clinic and was co-ordinator of the study.

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Issues associated with the introduction of circumcision into a non-circumcising society
A team lead by Kebaabetswe propose the introduction of infant circumcision in Botswana, based on:

- a survey of its acceptability to Batswana (people of Botswana)
- its practice in certain Western nations, and
- its alleged value in preventing HIV infection.

There are several medical, psychological, sexual, social, ethical, and legal problems with this proposal.

Medical effects
Male neonatal circumcision is not an innocuous procedure. There are many complications ranging from trivial to life threatening. Complications generally include bleeding, infection, and surgical accident, including penile necrosis and penile amputation.5 Bleeding or infection can progress to death.5,6 It is difficult to control complications with mass circumcisions.7 Circumcision exerts significant amounts of nerve bearing penile skin and mucosa, especially the ridged band structure near the mucocutaneous boundary.8 The protective effects of circumcision against HIV remain controversial.9 UNAIDS has not accepted circumcision as a useful public health measure.

In neighbouring South Africa, many children are infected with HIV.10 This is attributed to unsafe health care.

Circumcision creates an open wound through which infection may proceed.11 It is not clear that antiseptic circumcisions can be delivered in Botswana. It is possible that mass circumcision may worsen the epidemic.

Psychological effects
Psychological manifestations of circumcision have been an area of study at Bond University.

Neonatal circumcision is an intensely painful, traumatic, and stressful operation.12 General anaesthesia is unsafe in the newborn. Available methods of anaesthesia are only partially effective.13 Circumcised infants show hypersensitivity to pain suggestive of post-traumatic stress disorder (PTSD).14 Our study of the incidence of PTSD in the Philippines found extensive PTSD in circumcised boys.15 PTSD secondary to neonatal circumcision has been recorded in adult males.16 Victims of trauma tend to re-enact their trauma either on themselves or others in a cycle of violence.17 Circumcised males may rely on psychological defence mechanisms such as rationalisation and denial, and strongly avoid thoughts, feelings, or conversations about circumcision.18

There are additional concerns. The state of the phallus is closely related to a man’s sense of wellbeing.19 Men who were circumcised neonatally may feel unhappy about being circumcised, experience significant anger, sadness, feeling incomplete, cheated, hurt, concerned, frustrated, abnormal, and violate.20 In addition, circumcised men may suffer from resultant low self esteem,21 which frequently can result in a host of disorders behaviours.

Circumcision may be difficult to eradicate from a society once it is introduced. In addition, to the re-enactment described above,22 Goldman reports that circumcised men tend to defend the practice.23 Circumcised doctors tend to develop intellectual arguments to support genital cutting. Fathers who are circumcised may adamantly insist on a son’s circumcision in an emotional defence against their own painful feelings of grief for a lost body part and reduced sexual function.24 Kebaabetswe et al (p 217) reported that, “Being circumcised was the only significant predictor for a man who would definitely or probably circumcise a male child.”

Sexual effects
As noted above, circumcision excises large amounts of skin and mucosa from the penis. The removal of the prepuce tightens the remaining skin and makes it relatively immobile. Since stimulation of the sex nerves normally occurs by movement of the mobile skin, this further desensitises the penis,25 perhaps even more than the removal of the ridged band of erogenous nerves noted by Taylor.26 Excision of sexual nerve endings necessarily reduces sensory input. A decrease in sensation may therefore decrease the sexual response.27

Male circumcision also may adversely affect female sexual response. A survey of women found that they were markedly less likely to have an orgasm with a circumcised male.28

Social effects
There has been little study of social problems that may occur when entire cohorts of males are circumcised and consequently most of the men in a society bear physical and psychological wounds associated with circumcision.

We might expect more dependence on alcohol to relieve the symptoms of PTSD. Low self esteem may generate a feeling of shame. Shame may generate problems with

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relationship dissatisfaction, poorer health, depression, drug use, and loneliness. Increased sexual incompatibility and marital problems in uncircumcised societies might be expected as a result of reduced penile sensory input, increased sexual dysfunction, PTSD, and low self-esteem among circumcised men. Increased antisocial behaviour may also be expected. Thus, we might expect to see higher levels of domestic violence, rape, child sexual abuse, suicide, and theft.

Human rights

The fight against HIV-AIDS requires the careful protection of human rights. Among these human rights one finds the rights to security of the person and protection from degradation treating. The unnecessary excision of normal human tissue from uncircumcised boys is an obvious violation of the security of the person. Through amputation of ereogenous tissue, circumcision necessarily diminishes sexual sensation and function as described above and may constitute degrading treatment.

Ethics

Doctors have a duty of care to behave in an ethical fashion. Among other requirements, they are expected to respect the human rights of their child patients. Circumcision has been shown to be a violation of the child's human rights and, clearly, many ethical doctors are unwilling to carry out destructive circumcisions on normal, healthy boys. The British Medical Association recognises the right to conscientious objection to the performance of circumcision.

Law

Male circumcision is not unlawful, but valid consent must be obtained. This may be a problem in the case of circumcision performed on unconsenting minors, in the absence of any medical indication.

Cases involving the right of parents to consent to the non-therapeutic surgical sterilisation of a child have been heard in several nations. The cases agree that, in the absence of any medical indication, parents are not empowered to consent to the non-therapeutic, irreversible, surgical alteration of their child's genitals.

If the absence of a valid consent, a circumcision may constitute an assault.

Conclusion

The value of male circumcision in preventing HIV infection remains unclear. Non-sterile circumcisions may increase the risk.

Reliance on circumcision to prevent HIV transmission is wifulshand, and can only result in a calamitous worsening of the HIV-AIDS epidemic. Once started, circumcision tends to persist even when the need is over. Circumcision was introduced more than 100 years ago in Western nations on the grounds that it would prevent masturbation, which would prevent mental and emotional illness. That, of course, is no longer believed, but the practice of circumcision persists and has proved difficult to eradicate although progress is being made. The incidence of circumcision is declining in Western nations. The Department of Health of the Philippines is trying to discourage circumcision (called "tulic") in that nation where it has persisted. The practice of neonatal circumcision in certain Western countries such as the United States does not constitute a valid reason for introducing neonatal circumcision in Botswana.

Extreme care must be taken in a decision to introduce circumcision into a society.

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7 Van Howe RS, Gold C, Storms M. Some science would not have gone amiss. BMJ 2000;32:1467.
mind. These are missing. But a direct comparison of the treatment of a common condition, such as vaginal discharge, between the two books points up considerable differences. Whereas Sexually Transmitted Diseases tackles in admirable detail the microbiology, epidemiology, diagnosis, management, and complications of the various infections, I looked in vain in the atlas to find out whether sexual partners of women with bacterial vaginosis should be treated. There are however novel aspects of the atlas that should be applauded. I especially liked the opening chapter on genital and dermatological examination that brings together the normal and the abnormal in a particularly useful way, especially for physicians with a limited knowledge of dermatology.

Clearly, the general attractiveness of this atlas will ensure its place on the bookshelves of most specialist departments. As an introduction to the specialty, it fills an important niche and might be an ideal purchase for trainees. It cannot however replace the atlas will ensure its place on the bookshelves of most specialist departments. As an introduction to the specialty, it fills an important niche and might be an ideal purchase for trainees. It cannot however replace the atlas will ensure its place on the bookshelves of most specialist departments. As an introduction to the specialty, it fills an important niche and might be an ideal purchase for trainees. It cannot however replace the atlas will ensure its place on the bookshelves of most specialist departments. As an introduction to the specialty, it fills an important niche and might be an ideal purchase for trainees. It cannot however replace

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